

October 26, 2018

Modified Environmental Site Assessment

Westbound I-70 Peak Period Shoulder Lane

Empire Junction to Idaho Springs

Clear Creek County, Colorado

Prepared for:

HDR Engineering, Inc.
1670 Broadway
Suite 3400
Denver, Colorado 80202

Pinyon Project No.:

1/17-191-06.3000





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Glossary of Terms

ACBM	Asbestos Containing Building Material. Any surfacing, thermal systems insulation or miscellaneous material found in or on interior structural members which contains more than one percent asbestos.
ACGIH	American Conference of Governmental Industrial Hygienists
ACM	Asbestos Containing Material
AHERA	Asbestos Hazard Emergency Response Act
ASHARA	Asbestos School Hazard Re-Authorization Act
AST	Above-ground Storage Tank
ASTM	American Society for Testing and Materials
BGS	Below Ground Surface
BTEX	Benzene, toluene, ethylbenzene and xylene
CAA	Clean Air Act
CDOT	Colorado Department of Transportation
CDLE	Colorado Department of Labor and Employment
CDPHE	Colorado Department of Public Health and Environment
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act, commonly referred to as Superfund.
CERCLIS	Comprehensive Environmental Response, Compensation and Liability Information System
CORRACTS	RCRA Corrective Action Site
COT	Chain of Title
CR	County Road
CREC	Controlled Recognized Environmental Condition
CSEV	Colorado Soil Evaluation Values
CWA	Clean Water Act
EC	Federal Engineering Institutional Control Sites
ECHOR08	Enforcement and Compliance History
EPA	Environmental Protection Agency
EPCRA	Emergency Planning and Community Right-to-Know Act
ERNS	Emergency Response Notification System
ESA	Environmental Site Assessment
FIFRA	Federal Insecticide, Fungicide and Rodenticide Act

FRSCO	Facility Registry System
HREC	Historical Recognized Environmental Condition
Hazardous Materials	Hazardous material means any substance, waste, or material determined by any state, federal or local governmental authority to be capable of posing a risk of injury to health, safety and property, including, but not limited to, all substances, wastes and materials designated, defined or listed as hazardous, extremely hazardous or toxic pursuant to the Clean Water Act, 33 USC Sec. 1251, et seq.; Resource Conservation and Recovery Act, 42 USC Sec. 6901 et. seq.; the Comprehensive Environmental Response, Compensation and Liability Act of 1980, as amended by the Superfund Amendments and Reauthorization Act of 1986, 42 USC Sec. 9601, et. seq.; the United States Department of Transportation Hazardous Material Table, 49 CFR Part 172; regulations of the Environmental Protection Agency, 40 CFR Part 302; or such substances, materials and wastes that are or become regulated under any applicable local, state or federal law, and including any asbestos, petroleum and any petroleum fractions, urea formaldehyde foam insulation, chlorofluorocarbons (CFCs), or polychlorinated biphenyls (PCBs).
Hazardous Substance	Defined by CERCLA. Includes substances designated for special consideration under the CAA, the CWA, or the TSCA, and any hazardous wastes defined under RCRA. EPA can designate additional substances as hazardous if they present substantial danger to health and the environment.
Hazardous Waste	Waste defined in RCRA, which, due to its quantity, concentration, or physical, chemical or infectious characteristics, may present a hazard to human health or the environment.
ICIS	Integrated Compliance Information System
LBP	Lead-Based Paint
LQG	Large Quantity Generator.
LST	Leaking Storage Tank
LUST	Leaking Underground Storage Tank
MESA	Modified Environmental Site Assessment
mg/Kg	milligram per kilogram
mg/L	milligram per liter
MMP	Materials Management Plan
MP	Milepost
msl	Mean Sea Level
MW	Monitoring Well
NESHAP	National Emission Standard for Hazardous Air Pollutants
NFA	No Further Action
NFRAP	No Further Remedial Action Planned

NIOSH	National Institute for Occupational Safety and Health
NPDES	National Pollutant Discharge Elimination System
NPL	National Priority List (Superfund sites)
NVLAP	National Voluntary Laboratory Accreditation Program
OIS	Oil Inspection Section, Colorado Department of Labor and Employment
OPS	Colorado Division of Labor and Employment Division of Oil and Public Safety
OSHA	Occupational Safety and Health Administration
OTHERHW	Listed RCRA Facilities but do not fit into category of CORRACTS, TSDs, or Generators; includes Transporters, Non-Notifiers, former Generators, and others.
OU	Operable Unit
PA/SI	Preliminary Assessment/Site Investigation (CERCLA study)
PCB	Polychlorinated biphenyl
PEL	Permissible Exposure Limit
PLM	Polarized Light Microscopy, a method of analyzing bulk samples for asbestos.
ppb	Parts-per-billion
ppm	Parts-per-million
RBSLs	Risk Based Screening Levels
RECs	Recognized Environmental Conditions
RCRA	Resource Conservation and Recovery Act
RCRA-Viol	RCRA facilities with a reported violation
RCRIS	Resource Conservation and Recovery Information System
RCRIS- TSDC	RCRA TSD facilities subject to corrective action
RFA	RCRA Facility Assessment (RCRA study).
RFI	RCRA Facility Investigation (RCRA study).
RI/FS	Remedial Investigation/Feasibility Study (CERCLA study).
RODS	Record of Decision System
RSL	US EPA Regional Screening Level
SCL	State CERCLIS Equivalent Site
SDWA	Safe Drinking Water Act
SF	Superfund Site
SH	State Highway
SPILLS	State spills list

SPL	State NPL Equivalent Site
SQG	Small Quantity Generator. Refers to a generator who generate between 100 and 1,000 kilograms of hazardous waste in a calendar month.
SWLF	Solid Waste Landfill
TCLP	Toxicity Characteristic Leaching Procedure
TEPH	Total Extractable Petroleum Hydrocarbons
TRIS	Toxic Release Inventory System
TLV	Threshold Limit Value
TPH	Total Petroleum Hydrocarbons
TRPH	Total Recoverable Petroleum Hydrocarbons
TSCA	Toxic Substance Control Act
TSD	Treatment, Storage or Disposal (refers to RCRA facilities).
TVPH	Total Volatile Petroleum Hydrocarbons
USDA	United States Department of Agriculture
USGS	United States Geological Survey
UST	Underground Storage Tank
Viol/Enf	Violations/Enforcement Actions (RCRA)
VOC	Volatile Organic Compound
VSQ	Very Small Quantity Generator.
WB PPSL	Westbound Peak Period Shoulder Lane

I. Introduction

The purpose of the I-70 Westbound Peak Period Shoulder Lane (WB PPSL) Project is to improve westbound highway operations, safety, and travel time reliability, specifically during peak period times—from the eastern Veterans Memorial Tunnels, previously called the Twin Tunnels, to US 40 at Empire Junction (Figure 1). This segment is the most congested stretch of the entire I-70 Mountain Corridor. During both the summer and winter peak seasons, traffic volumes are highest on weekends when recreational travelers comprise more than 90 percent of traffic.

The improvements will be consistent with the *I-70 Mountain Corridor Programmatic Environmental Impact Statement* (PEIS; CDOT, 2011a) *Record of Decision* (ROD; FHWA, 2011), *I-70 Mountain Corridor Context Sensitive Solutions* (CSS; CDOT, 2007) process, and other commitments of the PEIS. The Project fits within the definition of “expanded use of existing transportation infrastructure in and adjacent to the corridor” as an element of the Preferred Alternative Minimum Program. A description of the Proposed Action and summary of features is provided in Section 2.0.

This Project is being funded in part using federal monies which are being administered by the Colorado Department of Transportation (CDOT), and requires adherence to the National Environmental Policy Act. For this Project, this Modified Environmental Site Assessment (MESA) has been completed as a technical memorandum for the Categorical Exclusion. Pinyon Environmental, Inc. (Pinyon) has been contracted to complete evaluations of hazardous materials, including completion of this MESA.

I.1 Project Area and Study Area Definitions

This MESA considers two geographical areas. The first is the *project area*, which encompasses the actual limits of the Project (i.e., footprint and/or limit of disturbance) as known at the time of the MESA and provided by CDOT. The project area extends 100 feet north of the inside, eastbound edge of pavement on I-70 between MP 230 and MP 243. The project area is used to evaluate the direct effects of the Project.

The second geographical area is the study area. The study area includes properties and lands outside of, but adjacent or in close proximity to, the project area. The study area for indirect effects includes a 0.25-mile buffer around the project area. It extends 0.25 mile to the north and south of the project area, and extends along the I-70 corridor from MP 229.75 to MP 243.25. This area encompasses the communities and other areas that would be indirectly affected by the Project.

I.2 Purpose

The purpose of this assessment is to provide information about facilities that pose a potential risk of regulated hazardous materials and/or environmental contamination from Recognized Environmental Conditions (RECs), Controlled RECs (CRECs), and Historical RECs (HRECs)¹, which may impact owner liability in the event of property acquisition or easements. Thorough assessment of facilities in and near the study area for past or

¹ Recognized environmental conditions (RECs) are defined conditions by ASTM as the presence or likely presence of any hazardous substances or petroleum products in, on or at a property: (1) due to release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. A controlled recognized environmental condition (CREC) is defined by ASTM as a REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority, with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls. A historical recognized environmental condition (HREC) is defined by ASTM as a past release of any hazardous substance or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls. The terms REC, CREC, and HREC do not include *de minimis* conditions that do not present a threat to human health or the environment and that would not be the subject of an enforcement action if brought to the attention of appropriate environmental agencies.

present soil and/or groundwater contamination is also an integral component of the planning process and evaluating Project liability, as regulated materials may be encountered during Project construction activities (i.e., ground disturbance). As part of this assessment, Pinyon also evaluated Project liability risk as summarized in Section 1.3.

The MESA was completed by an Environmental Professional, or conducted under the supervision or responsible charge of an Environmental Professional. At a minimum, the Environmental Professional was involved in planning the study area reconnaissance and interviews, and reviewed and interpreted the information used in developing the conclusions. Pinyon declares that, to the best of our professional knowledge and belief, the Environmental Professionals involved met the definition as defined in §312.1 of 40CFR 312. Other persons involved are qualified individuals, and have the training and experience necessary to complete their assigned tasks. These personnel have the specific qualifications based on education, training and experience to assess a property of the nature, history and setting of the project area. Pinyon has developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312. Resumes of the personnel involved in this MESA are included as Appendix A, Resumes/Credentials.

1.3 Summary of Scope of Services

This MESA has been prepared in general accordance with the American Society for Testing and Materials (ASTM) *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process (E 1527-13)* and CDOT Environmental Programs Branch Hazardous Materials Guidance Table (CDOT, 2011b). The following discussion presents the scope of services used to complete this assessment.

Physical Setting - The physical setting of the study area was reviewed to help evaluate potential regulated material transport mechanisms, including topographic and hydrogeologic conditions.

Regulatory Files - A review was completed of the compliance history of facilities within and in proximity to the study area, as identified by a regulatory database search and other reports (if available). This search included a review of publicly available local, state and federal records, or other reports.

Historical Land Uses - A review of historical uses in and around the study area was completed, using multiple sources. This review focused on uses that could potentially impact the study area through a release of hazardous substances to the soil or groundwater, such as commercial and industrial uses, and the storage and use of regulated materials.

Reconnaissance Survey - A reconnaissance survey of the study area was completed on August 11, 2017, by Michelle Marin, an Environmental Professional, to evaluate the potential presence of regulated materials sources. Pinyon visually surveyed the study area by driving the perimeter and surrounding areas via access roads, and walking areas with safe, public access. No reconnaissance survey was done on private landowner property. Following the reconnaissance survey, any areas that were not visually assessed were evaluated more closely on current aerial photographs provided by public sources (e.g., Google Earth). Additionally, photographs were taken, and a photographic log is attached as Appendix B, Photographic Log.

- **Interviews** - Owner interviews were not conducted as the Project work along I-70 will be completed within CDOT right-of-way.

Additional Services - Services beyond those required by ASTM or CDOT were not completed. Other regulated materials that may require special management and/or worker disclosure, including lead-based paint and asbestos, could be located within the study area. After completion of design, Pinyon will evaluate these materials only to the extent that they could be impacted by construction.

I.4 Impact Criteria for Project Liability

The magnitude of impact to the study area from a regulated material is dependent on different factors, including: the distance between a potential source of a regulated material and the study area; status of regulated facilities (e.g., active or inactive); known or suspected releases into soil, surface water or groundwater; the hydrogeologic relationship of the source of a regulated material to the study area; and the depth and/or duration of construction. These factors have been considered in this MESA as part of the evaluation of whether a regulated material has the potential to impact the study area. Facilities were categorized as either having a low or high potential to impact the study area. Criteria are detailed below.

Low Potential: Facilities that fit this criterion include:

- Facilities with minimal indications of an existing release, past release, or material threat of a release of regulated materials into the ground (soil), groundwater, or surface water that could impact the study area.
- Facilities located hydraulically down-gradient of the study area.
- Those facilities where contamination has impacted the study area; however, there is a low potential for known or suspected impacts to be exposed during construction.

High Potential: Facilities that fit this criterion include:

- Facilities with indications of an existing release, past release, or material threat of a release of any regulated materials into the ground (soil), groundwater, or surface water, and the possibility of migration from the contaminant source into the study area.
- Those same facilities that have caused a migration of the contaminants into the study area, and where construction would likely result in exposure of media impacted by those contaminants (e.g., soil, soil vapor, groundwater).

Pinyon has used these criteria throughout this report to evaluate the potential for Project impacts as a result of encountering the potential regulated or impacted materials during the Project.

2. General Project Information

2.1 Project Overview

The purpose of the I-70 WB PPSL Project is to improve westbound highway operations, safety, and travel time reliability, specifically during peak period times—from the Veterans Memorial Tunnels to US 40 at Empire Junction (Figure 1). This segment is the most congested stretch of the entire I-70 Mountain Corridor. During both the summer and winter peak season, traffic volumes are highest on weekends when recreational travelers comprise more than 90 percent of traffic (CDOT, 2014a; CDOT 2014b).

The eastbound I-70 Mountain Express Lane has been open for two winter seasons and one summer season, and has delivered consistent speeds resulting in travel time reliability for all lanes, including general purpose lanes, along the I-70 Mountain Corridor.

The WB PPSL project adds an approximate 12-mile tolled PPSL between the Veterans Memorial Tunnels (MP 243) and US 40/I-70 interchange (MP 232), in the WB direction only. The 11-foot lane is open for vehicles to use only during peak periods. Trucks and buses are prohibited from using the WB PPSL. The lane entrance begins approximately 500 feet east of the east tunnel portal. Overhead signs showing the lane status and toll rate are located throughout the corridor and at the entrance point. The WB PPSL ends approximately 1/2 mile west of Exit 232.

A description of the Project is presented in Table 2-1.

Table 2-1 Project Description

Information	Discussion
Project Name	Westbound I-70 Peak Period Shoulder Lane
Location	I-70 from MP 230 to MP 243
County	Clear Creek
CDOT Region	I
Project Number	NHPP 0703-445
Project Code (SA#)	21893
Route ID	The project area extends 100 feet north from the centerline of EB I-70 from MP 230 to MP 243. For the SH 103 interchange improvements, the study area includes the entire interchange and the immediately adjacent areas.
Mile Post Begin	230
Mile Post End	243

2.2 Summary of Project Features

The Project will include the addition of a westbound peak period shoulder lane and/or related improvements from approximately the Veterans Memorial Tunnels to the US 40/I-70 interchange (MP 243 to MP 230). It is anticipated that shallow excavation (up to a depth of two feet), grading, and surfacing activities will be completed for roadway reconstruction and tolling infrastructure. Deeper excavations, up to 80 feet, may take place for retaining or if sound wall construction is needed and for lighting installation. Table 2-2 presents a summary of the Project features as presented on CDOT Form No. 881. Details on the proposed improvements are as follows:

I-70 Modifications. WB I WB I-70 is resurfaced between approximately MP 242 and MP 232, and widened in select areas to effectively create three travel lanes during peak periods. The two general purpose lanes remain open and free to all travelers at all times. Drainage enhancements include a storm system for minor and major storm events and water quality facilities. At SH 103, I-70 is slightly realigned to enhance safety and improve drainage.

SH 103 Interchange Improvements. Ramp improvements address sight distance problems. The pedestrian sidewalk is improved by adding lighting and a decorative paving buffer adjacent to the existing sidewalk on the SH 103 bridge over I-70. This sidewalk connects to a new sidewalk buffered from 13th Avenue between the interchange ramp and Idaho Street in Idaho Springs.

Safety Pull-Outs. A total of seven new safety pull-outs are built—five along WB I-70 and two along EB I-70. One existing safety pull-out on EB I-70 is improved. The intention of these is to provide a space for vehicles to use if they experience a break down and for law enforcement to use.

Rockfall Mitigation. Rockfall mitigation measures are added at four locations to prevent rocks or other debris from falling on travel lanes or shoulders and reduce the potential for crashes and travel disruptions. Rockfall mitigation measures are included at MP 239, MP 238.4, MP 237.1, and MP 236.4.

Active Traffic Management. Dynamic signage informs drivers so the PPSL is appropriately used to reduce congestion. This innovative design improves mobility.

Fiber Optic Upgrades. Fiber optics are designed to accommodate future emerging technologies for autonomous and connected vehicles, improving driver information and emergency response capabilities.

Dumont Port-of-Entry Interchange. Merge area improvements to the Dumont interchange acceleration lane includes restriping of I-70 to reduce merge conflicts between truck traffic and the general purpose lane traffic.

Table 2-2 Summary of Project Features

Project Feature	Present (yes/no)	Discussion
Structure Acquisition	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Structure acquisition is not anticipated.
Structure Modification	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Minor structure widening may take place.

Table 2-2 Summary of Project Features

Project Feature	Present (yes/no)	Discussion
Structure Demolition	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Structure demolition is not anticipated.
New Right-of-Way	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Right-of-Way not required
Easements	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Easements are anticipated; specific locations are in the process of being surveyed and mapped.
Utility Relocation	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Work will likely be required within the vicinity of overhead and underground utilities; however, final design has not yet been determined and specific impacts are not yet known.
Excavation or Drilling	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<p>Drilling for geotechnical investigations and soil and groundwater characterization may be conducted.</p> <p>Excavation and/or drilling for sound walls, bridges, retaining walls, or lighting may be conducted.</p> <p>Activities associated with rockfall mitigation may be conducted.</p>
Disturbance Depth (feet)	From one to 80 feet.	
Dewatering	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	Groundwater may be encountered during wall construction or in areas where deep foundations may be needed (e.g., caisson and signal construction).
Groundwater Anticipated	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	Groundwater may be encountered during the construction activities.
Depth to Groundwater (feet) (Section 2.3.6)	10 to 20 feet	
Groundwater Flow Direction (Section 2.3.6)	Groundwater flow is generally to the east or southeast.	

2.3 Physical Setting

The physical setting of the study area was reviewed to help evaluate potential regulated material transport mechanisms, including topographic and hydrogeologic conditions.

2.3.1 Topography

The topography of the project area is generally flat, with an overall slope to the east (Figure 1). The topography changes to mountainous adjacent to the north and south of the study area.

2.3.2 Elevation

The elevation of the project area ranges from approximately 8,350 feet above mean sea level (msl) at the western boundary to 7,360 feet above msl at the eastern boundary (USGS, 1974 and 2013).

2.3.3 Surficial Soil

Surficial soils within the study area consist of 16 different soil units (Table 2-3) present on cliffs, ridges, mountain slopes, terraces, drainage ways and alluvial fans (CDOT, 2014a). The soils were mostly derived from the weathering of igneous and metamorphic rocks; however, mine spoils and earthy fill have also been mapped within the study area (Figure 7).

Table 2-3 Soil Units

Soil Unit Descriptions	Parent Type
<p><u>Arents Description</u> Somewhat excessively drained, occurs on mountain slopes and talus slopes. <i>Typical soil profile</i> 0 to 24 inches: Very cobbly loamy coarse sand 24 to 28 inches: Gravelly sandy loam 28 to 60 inches: Extremely cobbly loamy sand</p>	<p>Mine spoil, earthy fill, or acidic mine spoil</p>
<p><u>Bendemeere Description</u> Well-drained, occurs on mountain slopes <i>Typical soil profile</i> 0 to 1 inches: Slightly decomposed plant material 1 to 3 inches: Very gravelly sandy loam 3 to 10 inches: Gravelly coarse sandy loam 10 to 21 inches: Very cobbly coarse sandy loam 21 to 30 inches: Very gravelly loamy coarse sand 30 to 42 inches: Very gravelly loamy sand 42 to 50 inches: Gravelly loamy sand 50 to 62 inches: Very gravelly coarse sandy loam</p>	<p>Micaceous colluvium derived from igneous and metamorphic rock</p>
<p><u>Breece Description</u> Well-drained, occurs on alluvial fans and drainage ways <i>Typical soil profile</i> 0 to 7 inches: Gravelly sandy loam 7 to 20 inches: Gravelly sandy loam 20 to 42 inches: Gravelly coarse sandy loam 42 to 72 inches: Gravelly sandy loam</p>	<p>Alluvium and slope alluvium derived from igneous and metamorphic rock</p>

Table 2-3 Soil Units

Soil Unit Descriptions	Parent Type
<p><u>Cathedral Description</u> Well-drained, occurs on mountain slopes and ridges <i>Typical soil profile</i> 0 to 3 inches: Very cobbly coarse sandy loam 3 to 11 inches: Very gravelly sandy loam 11 to 15 inches: Unweathered bedrock</p>	<p>Weathered igneous and metamorphic rock</p>
<p><u>Cumulic Cryaquolls</u> Poorly drained, occurs on drainage ways <i>Typical soil profile</i> 0 to 21 inches: Loam 21 to 64 inches: Very gravelly sand</p>	<p>Alluvium derived from igneous and metamorphic rock</p>
<p><u>Dumps, Mines Description</u> <i>Typical profile</i> 0 to 60 inches: Fragmented material</p>	<p>Acidic mine spoil or earthy fill derived from igneous and metamorphic rock</p>
<p><u>Kataka Description</u> Well-drained, occurs on mountain slopes and ridges <i>Typical soil profile</i> 0 to 5 inches: Very gravelly loam 5 to 10 inches: Very gravelly sandy loam 10 to 18 inches: Very cobbly clay loam 18 to 31 inches: Extremely stony clay loam 31 to 38 inches: Weathered bedrock</p>	<p>Micaceous colluvium derived from igneous and metamorphic rock</p>
<p><u>Lininger Description</u> Well drained, occurs on ridges <i>Typical soil profile</i> 0 to 9 inches: Gravelly sandy loam 9 to 39 inches: Sandy clay loam 39 to 43 inches: Weathered bedrock</p>	<p>Micaceous colluvium and/or slope alluvium over residuum weathered from igneous and metamorphic rock</p>
<p><u>Lone Rock Description</u> Somewhat excessively drained, occurs on alluvial fans and terraces. <i>Typical soil profile</i> 0 to 9 inches: Gravelly sandy loam 9 to 28 inches: Very gravelly loamy sand 28 to 60 inches: Extremely gravelly sand</p>	<p>Alluvium derived from igneous and metamorphic rock</p>

Table 2-3 Soil Units

Soil Unit Descriptions	Parent Type
<p><u>Mammoth description</u> Well-drained, occurs on mountain slopes. <i>Typical soil profile</i> 0 to 1 inches: Slightly decomposed plant material 1 to 10 inches: Very gravelly sandy loam 10 to 16 inches: Gravelly loam 16 to 22 inches: Very gravelly loamy sand 22 to 59 inches: Very gravelly sandy loam 59 to 67 inches: Stony loamy coarse sand</p>	<p>Igneous and metamorphic rock</p>

2.3.4 Geology

The majority of I-70 was constructed on embankment fill (CDOT, 2014a). Geotechnical investigations in support of I-70 Eastbound PPSL (CDOT, 2014a) included drilling of numerous vertical soil borings in locations where structural elements were anticipated (e.g., retaining walls and new bridge abutments). During those drilling activities, Pinyon personnel collected representative soil samples of fill material to evaluate environmental conditions. Results from these analyses are discussed in **Section 3.6**.

Surficial units in the project area mainly consist of alluvium, colluvium, glacial materials, and debris sheets from the Quaternary period. Outwash deposits from the Wisconsin glacial stage (Pleistocene epoch) are located in the vicinity of Idaho Springs. The Bostonite and Quartz Monzonite groups underlie the project area on the north side of I-70, east of the town of Dumont. The Bostonite group is characterized as quartz bostonite porphyry, trachytic granite porphyry, and bostonite porphyry from the Tertiary epoch. The Quartz Monzonite group is characterized as alaskite porphyry, granite porphyry, and quartz monzonite porphyry from the Tertiary epoch (CDOT, 2014a).

The bedrock underlying the project area is classified as Precambrian feldspar-rich, fine- to medium-grained gneiss, characterized by conspicuous foliation and interlayered with hornblende and amphibolite gneisses. Fine layering is evident in some of the gneiss, expressed by interlamination of biotite-rich and biotite-poor layers (Kellogg et al., 2008; CDOT, 2014).

2.3.5 Nearest Surface Water Body

The closest surface water body to the project area is Clear Creek, which parallels I-70 either to the north or south along the Project corridor (Figure 1). The elevation of this feature is 8,280 feet above msl at the western end of the study area and is 7,480 feet above msl at the eastern end of the study area.

2.3.6 Hydrogeology

Water table conditions predominate in the unconsolidated alluvial deposits near Clear Creek in the study area (Topper, 2009). Based on previously completed soil borings, the groundwater elevation in the study area is expected to be generally 10 to 20 feet below ground surface (bgs), and flow direction would likely be to the south or east (CDOT, 2014a; **Section 3.1**). Tributaries to Clear Creek are also present in the study area vicinity; the main tributaries are Soda Creek, Trail Creek, Mill Creek, Fall River, and Chicago Creek (which runs parallel to SH 103 and flows into Clear Creek near bridge F-14-E and MP 240).

Pinyon conducted a search on the Colorado Department of Water Resources Well Permit Research on-line map (CDWR, 2017). Permitted groundwater wells are located within or adjacent to the study area, generally in the vicinity of Idaho Springs, Dumont, and Downieville (Figures 2, 3 and 4).

3. Results

The following sections present a summary of review of the regulatory files, historical land uses, and the reconnaissance survey.

3.1 Regulatory Files

Pinyon obtained a database report of regulatory agency environmental records concerning known releases of hazardous substances or petroleum products, the location of landfills, and the generation, storage or transport of hazardous waste from GeoSearch (Appendix C, Agency Database). The search was conducted in accordance with the search radii specified in the ASTM Standard; acronyms and abbreviations can be found at the beginning of the GeoSearch report (Appendix C).

A total of 390 facilities were identified in the agency database report (Appendix D, Agency Database Summary). Based on the criteria described in Section 1, a total of 13 listings were identified during the review of regulatory files with potential to impact the study area.

Table 3-1 Summary of Facilities with Potential to Impact the Project Area

Geosearch ID	Facility Name(s)	Facility Type	Address	Hydrogeological Relationship to Study Area	Summary of Facility Use (s)
1	Central City/Clear Creek	RODS; ICIS; EC; SF; FRSCO; SEMS; ECHOR08; NPL	Near Town, Idaho Springs, CO	Upgradient	Former mining and milling facilities.
2	Downieville	LST	I-70 in Downieville	Upgradient	Former and current gas stations
3	Clear Creek Distributing	LST; ERNSCO; FRSCO; UST; AST; ICIS NPDES	170 and Exit 243	Upgradient	Former beer distributor
3	Hidden Valley Texaco	LST	170 and Exit 243	Upgradient	Former gas station
34	Orphan Tank	LST; AST	291 CR 308, Idaho Springs	Upgradient	Former gas station
42	Downieville Fuel Stop/Rexoco	UST; LST	1039 CR 308 and 1041-1041A CR 308, Downieville	Upgradient	Gas station
52	Amoco #5329	LST; UST; AST	1319 Miner St., Idaho Springs	Upgradient	Gas Station
52	Miner Street Shell	LST; UST	115 13 th Ave., Idaho Springs	Upgradient	Gas Station

Table 3-1 Summary of Facilities with Potential to Impact the Project Area

Geosearch ID	Facility Name(s)	Facility Type	Address	Hydrogeological Relationship to Study Area	Summary of Facility Use (s)
53	Orphan Tank at Miner Street	LST; UST	1840 Miner St., Idaho Springs	Upgradient	Unknown
54	Silver City Automotive	LST; UST	243 Colorado Blvd., Idaho Springs	Upgradient	Automotive and Towing
55	CDOT	LST; UST; AST	2931 Colorado Blvd., Idaho Springs	Crossgradient	Storage yard and maintenance sheds
56	Kum & Go #975	LST; UST; SPILLS	1359 Miner St., Idaho Springs	Upgradient	Gas Station
78	Blackwell Oil Co	LST; UST	1246 Miner St., Idaho Springs	Upgradient	Gas Station
Various	Various	SPILLS	Various	Various	Spills in the vicinity of the study area.

- AST Aboveground Storage Tank
- EC Federal Engineering Institutional Control Sites
- ECHOR08 Enforcement and Compliance History
- ERNSCO Emergency Response Notification System
- FRSCO Facility Registry System
- ICIS Integrated Compliance Information System
- LST Leaking Storage Tank
- NPDES National Pollutant Discharge Elimination System
- NPL National Priority List
- RODS Record of Decision System
- SEMS Superfund Enterprise Management System
- SF Superfund Site
- SPILLS State Spills List
- UST Underground Storage Tank

3.1.1 Central City/Clear Creek

(GeoSearch ID: 1), Near Town, Idaho Springs, CO. Gold was discovered in Idaho Springs in 1859, and hard rock and placer mining was a leading industry in the vicinity until the 1950s. Over 800 inactive mines and tunnels are located in Clear Creek and Gilpin counties (EPA, 1991). Initially, placer mining was conducted; however, deposits were quickly depleted. Mining activities then focused on hard rock sulfide ores in deep mines. Due to flooding, mines were drained through drainage shafts, many of which continue to drain water heavily contaminated with metals, and discharge into surface-water bodies. The Central City/Clear Creek Superfund site was added to the National Priorities List in 1983. This listing includes multiple waste piles, tailing impoundments, milling locations and draining mine adits within a 400-square mile area in the Clear Creek watershed. Mining and ore processing left a legacy of contamination of soil, surface water and groundwater in

many areas in Clear Creek and Gilpin counties. Most significant is the impact to Clear Creek and its tributaries, which serve as a drinking water source for the Denver area. The most significant contaminants are metals, in particular, lead, arsenic and cadmium (EPA, 1991).

The boundary of this Superfund site is not precisely defined, but generally includes approximately 400 square miles of the Clear Creek watershed west of Golden, Colorado. Mining activities occurred at many locations across a broad area, leading to a wide distribution of mine waste. The EPA organized the Superfund site into separate operational units (OUs); these OUs were broken out by source and not geographically. OU 1 was originally designated to address acid mine drainage from five mine tunnels utilizing passive treatment. After the technology was found to be infeasible, two of the five discharges were changed to active treatment and the other three discharges were transferred to OU 4. OU 2 was designated to address remediation of mill tailings and mine waste rock associated with the five discharging tunnels in OU 1. The long-term remedy for the waste rock piles, selected in 1988, included slope stabilization at two of the piles, monitoring of the gabion wall at one of the piles and run-on control at all five piles. A 1999 update to the remedy included a combination of regrading, capping and construction of retaining walls, and runoff controls at two of the five piles. OU 2 remedial actions are complete except for the Quartz Hill tailings impoundment, which was transferred to OU 4. Operation and maintenance activities are ongoing at several of the OU 2 waste piles.

OU 3 encompasses the Clear Creek watershed and superseded OU 1. Major components of OU3 included controls on select mine waste piles, active and passive tunnel discharge treatments, tunnel discharge collection systems, a groundwater pump and treat system in Idaho Springs and an alternate drinking water supply where required. OU 4 focused on sources of metals contamination to the North Fork of Clear Creek, a major tributary to Clear Creek. The remedial actions address contaminated surface water, ground water and sediment. The project area is located within the boundaries of the Superfund site; the following waste piles, adits, milling locations and tailing impoundments are located within or adjacent to the study area (CDPHE, 2017):

- *Argo Waste Pile/Tunnel*—The Argo Waste Pile and Tunnel are both located in Idaho Springs approximately 750 feet north of the project area. This drainage previously dumped approximately 740 pounds of metals into Clear Creek per day (Fliniau and Norbeck, 1997). The tunnel was constructed between 1893 and 1910 to drain water from deep mines along its route from Central City to Idaho Springs. The tunnel serviced gold rich mines in Virginia Canyon, Gilpin Gulch, Quartz Hill, Nevadaville, and Central City. The waste pile is included in OU 2 and remediation activities include re-grading of the waste pile to remove its toe from Clear Creek along with capping and constructing a retaining wall along a portion of the waste pile toe. The tunnel drainage is the largest source of metal contamination to Clear Creek. The Argo Tunnel is included in OU 1 and the Argo water treatment facility began operation in 1998. The treatment facility prevents approximately 1,200 pounds of metals from entering Clear Creek each day (CDOT, 2011a). The treatment system was retrofitted to a High Density Sludge system between 2011 and 2013 and a new Flow Control Bulkhead was completed in August 2015 (CDPHE, 2017; EPA, 2015). The most recent discharge data for the treatment system, January 2012 through December 2013, were reviewed for the most recent Five-Year Report (CDPHE, 2017). The long-term average discharge concentrations were compared to the average monthly limit specified in the Applicable or Relevant and Appropriate Requirements Compliance Document issued February 3, 1999. The discharge concentrations were reported to be “significantly below allowable limits”.
- *Big Five Waste Pile/Tunnel*—The Big Five Waste Pile and Tunnel are located on the western end of Idaho Springs between mile marker 238 and 239, approximately 350 feet north of the project area. Mine dumps on both sides of Clear Creek have been excavated from the creek and capped (CDOT, 2011a). The waste pile is included in OU 2 and has been capped and a retaining wall has been constructed. The tunnel is

included in OU I and water from this drainage is piped and discharged to the Argo water treatment plant. The USDA maps indicate that surficial soils in this area are potentially derived from mine-related waste.

3.1.2 Downieville

(GeoSearch ID: 2; Facility ID: 13518), I-70 at Downieville. Petroleum contamination was reported in a concrete pit on the south side of the intersection of I-70 and Exit 243 (Terracon, 1990). Reportedly, several former and current gas stations operated in the vicinity of this exit, to the north of I-70. During a site visit by others at the time of the complaint, no visible impacts were observed and a grab water sample was collected from the pit and analyzed for benzene, toluene, ethylbenzene and xylene (BTEX) and total recoverable petroleum hydrocarbons (TRPH). Based on the analytical results, a No Further Action (NFA) letter was issued in 1990.

3.1.3 Clear Creek Distributing

(GeoSearch ID: 3; Facility ID: 10633), I-70 and Exit 243. Two underground storage tanks (USTs) were removed from the facility in 1993 (Clayton, 2005). As a result of impacts to soil and groundwater from the USTs, a remediation system and eight monitoring wells were installed in the late 1990s and operated through 2004. Groundwater flow was reported to be to the east, towards Clear Creek; I-70 is located to the south and cross gradient of the facility. Monitoring Well (MW)-6 was located adjacent to the I-70 on-ramp. Analytical results for groundwater samples collected from this monitoring well were non-detect for benzene, however low levels of petroleum hydrocarbons (below 0.2 milligrams per liter [mg/L]) were reported. The Colorado Department of Labor and Employment (CDLE) Oil Inspection Section (OIS) issued a risk based NFA letter on April 19, 2005. Levels of benzene above Risk Based Screening Levels (RBSLs) remain at the facility and are naturally attenuating.

3.1.4 Hidden Valley Texaco

(GeoSearch ID: 3; Facility ID: 13961), I-70 and Exit 243. A leak event was reported for the facility after removal of five USTs in 1989 (Delta, 1991). Eight monitoring wells were installed over the course of several investigations and groundwater samples were analyzed for BTEX and total petroleum hydrocarbons (TPH). Monitoring wells MW-9 and MW-10 were located adjacent to I-70; BTEX and TPH were detected in groundwater samples from these wells. The highest level of benzene reported in MW-9 was 0.037 mg/L and in MW-10 was 0.003 mg/L; both from 1990. The Colorado Department of Public Health and Environment (CDPHE) standard for benzene in groundwater is 5.0 micrograms per liter/0.005 mg/L (CDPHE, 2016). The Colorado Department of Health issued an NFA letter for the facility on March 25, 1991.

3.1.5 Orphan Tank

(GeoSearch ID: 34; Facility ID 18282), 291 CR 308. An abandoned UST was discovered during construction activities (Braun, 2007). Upon further investigation at the County Assessor, it was determined that the property was formerly a Mobil gas station. Soil samples were collected adjacent to the UST and analyzed for BTEX, total volatile petroleum hydrocarbons (TVPH) and total extractable petroleum hydrocarbons (TEPH); analytical results were reported as non-detect. Based on survey results, it is likely that County Road 308 was constructed over the area where the USTs associated with the former gas station were located, adjacent to the south of the building. No sampling was conducted in this area. Closure was granted by the CDLE Division of Oil and Public Safety (OPS) for removal of the UST in 2007.

3.1.6 Downieville Fuel Stop/Rexoco

(GeoSearch ID: 42; Facility ID: 3846), 1039 CR 308 and 1041-1041A CR 308. In 2002, a leak event was reported for the facility during removal of four USTs (REX, 2002). Soil samples and piping excavations were collected

from beneath the UST and analyzed for BTEX, TVPH, TEPH and TPH. Based on the analytical results, the facility was granted closure in 2002. Another leak was reported in July 2010 after a leak in a flex connection was discovered (Palmetto, 2011). Monitoring wells were installed in 2010 and 2011 to define the extent of the plume and monitor contaminants. Another event, as a result of a leaking flex connector, was reported in 2012. As of 2017, the plume was reported to be moving to the south, towards County Road 308 and I-70. MW-5 is located 50 feet to the north of County Road 308 and approximately 130 feet to the north of I-70. Less than one inch of free product was reported in MW-5 in October 2012. Benzene has been reported above the CDPHE basic standard for benzene in groundwater (0.005 mg/L) for various sampling events every year from 2010 to 2017. Results have ranged from 0.0130 mg/L in 2011 to 0.0024 mg/L in 2017. Groundwater was reported to be flowing to the south-southeast at a depth of 20 feet. The consultant, Palmetto Environmental, has recommended installation of an air sparge/soil vapor extraction system.

3.1.7 Amoco #5329

(GeoSearch ID: 52; Facility ID: 6517), 1319 Miner Street. In 1992, USTs and piping were removed from the facility (Handex, 1996). A leaking storage tank (LST) event was reported at the time of the removal and approximately 100 yards of impacted soil was removed. Quarterly groundwater monitoring was conducted for two years, and based on the analytical results, a determination of NFA was issued in 1996. Levels of BTEX and TPH in samples collected from MW-8, adjacent to the project area, were reported as non-detect in all sampling events.

3.1.8 Miner Street Shell

(GeoSearch ID: 52; Facility ID: 2423), 115 13th Avenue. In 2006, approximately 15 gallons of diesel were spilled and flowed to a storm drain into a settling area and then to Clear Creek. Based on the report, due to the very fast rate of surface flow at the time of the spill, it was assumed that the diesel flowed from the storm drain into Clear Creek without impacting the settling area. The facility received a letter of NFA in 2008 from the OPS.

3.1.9 Orphan Tank

(GeoSearch ID 53; Facility ID: 18152), 1840 Miner Street. A 500-gallon abandoned UST was discovered during construction activities (Braun, 2006). Three soil samples were collected from the excavation and analyzed for BTEX, methyl tert butyl ether (MTBE), TVPH and TEPH; all samples were reported as non-detect for these analytes. Based on this information, the facility received a letter of NFA in 2006 from the OPS.

3.1.10 Silver City Automotive

(GeoSearch ID 54; Facility ID: 15563), 243 Colorado Boulevard. One waste oil and four gasoline USTs were removed from this facility in 2001 (EME, 2002). Soil samples were collected from the two excavation pits at depths ranging from eight to ten feet bgs and analyzed for BTEX, TVPH, TEPH, and oil and grease (O&G). In one soil sample, A2-8, TEPH was reported at 590 mg/kg and O&G at 1,900 mg/kg. Based on these results, this soil sample was analyzed for polycyclic aromatic hydrocarbons; all polycyclic aromatic hydrocarbons were either non-detect or below RBSLs. Groundwater was not encountered to depths of at least 17.5 feet bgs and was expected to be at 25 to 30 feet bgs or more. Based on this information, the facility received a letter of NFA in 2002 from the OPS.

3.1.11 CDOT

(GeoSearch ID 55; Facility ID: 7418), 2931 Colorado Boulevard. This facility is located adjacent to the north and crossgradient of westbound I-70 and has been operated by CDOT since the 1950s (Walsh, 1995). USTs were removed in 1989, 1991 and 1995; soil samples collected during these investigations indicated elevated levels of TPH and volatile organic compounds (VOCs). A Second Level Site Characterization in 1995 was conducted,

consisting of installation of five monitoring wells and nine boreholes (Walsh, 1995). Based on the analytical results of this investigation, Walsh concluded that petroleum-impacted soil and 30 to 40 feet of mine tailings were present at the facility and recommended: removal of the impacted soil; groundwater monitoring for one year; and removal of a spoils pile. This work was completed in 1996. Confirmation soil and groundwater samples were collected and analyzed for BTEX and TEPH (Walsh, 1996). Concentrations of petroleum constituents were identified at levels near laboratory detection limits and well below regulatory levels in the sample from MW-5, approximately 150 feet to the north of the I-70 on-ramp; these analytes were non-detect in the remainder of the samples. Based on this information, the facility received a letter of NFA from the OPS.

3.1.12 Kum & Go

(GeoSearch ID 56; Facility ID: 18798), 1359 Miner Street. This facility is located approximately 200 feet north of I-70. A release event (10897) was reported in 2009 when stained soils were observed during construction activities (Stantec, 2009). Two soil samples were collected from the excavation pit at a depth of 17 feet bgs and analyzed for BTEX and TPH; based on these results, the facility received a letter of NFA in 2009 from the OPS.

In 2015, a release event was reported when a UST alarm sounded due to a crack in the UST (Seneca, 2015). After repair of the UST, four soil borings were drilled to a depth of 30 feet. A soil sample was collected from the bottom of each boring and analyzed for BTEX and TVPH. Groundwater was encountered in one boring at 21.5 feet bgs; a sample of groundwater was collected and analyzed for BTEX, MTBE and TVPH. Analytical results were non-detect and an NFA letter was issued by the OPS for the event.

3.1.13 Blackwell Oil Company

(GeoSearch ID 78; Facility ID: 10641), 1246 Miner Street. A leak was reported in 2008 from diesel dispensers (Braun, 2009). Three borings were drilled; soil and groundwater samples were collected from each boring and analyzed for BTEX, TVPH and TEPH. Soil in the boring adjacent to the leaking dispenser was reported at 2,100 milligrams per kilogram (mg/kg) in the one foot bgs sample, and at 1,300 mg/kg in the 22 feet bgs sample. Groundwater samples were reported as non-detect and groundwater was reported at 20 feet bgs and flowing to the southeast. An NFA was issued for the facility on November 30, 2009, with the notation that soil with a concentration of TEH of 2,100 mg/kg remained in place.

3.1.14 Various Spills

Thirty-nine spill incidents were reported in the GeoSearch database as having occurred in the vicinity of the project area (Appendix C). Review of the listings did not provide exact locations where these incidents occurred and location descriptions based on approximate mile markers. Materials released included diesel fuel, gasoline and sewage; petroleum releases were generally in relatively small quantities of less than 60 gallons. No indication of investigation or cleanup beyond initial report of release and response actions was identified in the environmental database.

3.2 Historical Land Uses

A review of historical uses in and around the study area was completed, using multiple sources (See **References** section). This review focused on uses that could potentially impact the study area through a release of hazardous substances to the soil or groundwater, such as commercial and industrial uses, and the storage and use of regulated materials.

3.2.1 Project Area

A review of historical uses in and around the study area was completed, using multiple sources including topographic maps, aerial photographs and Sanborn maps.

Table 3-2 Historical Use of the Project Area

From	To	Site Use
1859	1930s	Gold was discovered in 1859 in Idaho Springs, after which the majority of the Clear Creek floodplain was dredged for gold, likely including portions of the project area near Clear Creek (EPA, 1991). From 1859 through the 1930s, additional development took place in Idaho Springs, Downieville, Lawson and Dumont. By at least 1895, the Town of Idaho Springs was located within the project area (<i>Sanborn maps</i>). Uses in the project area included foundries, lumberyards, mills, and commercial and residential uses. Surrounding land was vacant land, roads, commercial and residential buildings, mill sites, mining claims and railroad tracks (<i>topographic maps and Sanborn maps</i>). Scattered buildings were located along the project area corridor.
1930s	1960s	Highway 40/US 6 was constructed between Idaho Springs and Empire Junction since prior to 1942 (<i>topographic maps, aerial photographs, and Sanborn maps</i>). Development and expansion of Idaho Springs continued.
1960s	Present	I-70 was constructed in stages during the 1960s and the configuration of the road is consistent with the current I-70 configuration (<i>topographic maps and aerial photographs</i>).

3.2.2 Study Area Vicinity

Development in the vicinity of the study area began after the discovery of gold in 1859 near the future location of Idaho Springs (Clear Creek County, 2017). Small towns including Downieville, Lawson, Dumont, Empire and Georgetown were founded as miners settled in the area; development continued until the 1930s when mining generally stopped due to economic constraints. Roads continued to be constructed in the vicinity through the 1960s and 1970s and development of commercial and residential uses continues to the present day.

3.3 Reconnaissance Survey

To obtain current information on the presence of potential RECs, a limited reconnaissance survey of the study area and vicinity was conducted by Pinyon on August 11, 2017. The reconnaissance survey was conducted from public right-of-way and included an assessment of the current land uses and observable activities associated

with properties in and adjacent to the project area. The majority of the future project area could not be accessed and was observed, as possible, from public right-of-way.

During the reconnaissance survey, photographs were taken, and a photographic log is attached as Appendix B.

3.3.1.1 Project Area Land Uses

The project area extends 100 feet north of the inside, eastbound edge of pavement on I-70 between MP 230 and MP 243. The project area land uses include I-70 and the adjacent shoulders, median and interchanges from MP 243 to MP 230.. More specific land uses are as follows.

Between MP 238 and MP 243:

Land use includes vacant land, residences, commercial uses, gas stations, and former mine/mill sites. The town of Idaho Springs is located in this section of the project area.

Between MP 235 and MP 238:

This area is generally undeveloped forested lands, residential and commercial development, former mine and mill locations, and Superfund-listed Operable Units (McClelland Mine Waste and Drainage and Rockford Mine Drainage). The town of Dumont is located at exit 235.

Between MP 232 and MP 235

This area is generally undeveloped forested lands, residential and commercial development, and former mine and mill locations. Downieville and Lawson are located in this section of the project area.

3.3.1.2 Study Area Vicinity Land Uses

The study area includes properties and lands outside of, but adjacent or in close proximity to, the project area. The study area for indirect effects includes a 0.25-mile buffer around the project area. It extends 0.25 mile to the north and south of the project area, and extends along the I-70 corridor from MP 229.75 to MP 243.25. The adjacent use to the south of the project area is eastbound I-70 and the northern adjacent use is generally vacant land or commercial and residential uses in Downieville, Dumont, Lawson and Idaho Springs. Land use in the vicinity of the Project includes commercial and residential uses in the towns of Idaho Springs, Dumont, Downieville and Lawson, vacant land, smaller access roads and scattered commercial and residential uses.

3.3.2 Summary of Observed Potential Environmental Concerns

During the reconnaissance survey, the project area and study area were observed for evidence of potential presence of regulated materials, such as:

- General uses; in particular, uses that could result in the use and/or release of hazardous substances or petroleum products;
- Evidence of USTs, including fill ports, vent pipes, and fueling facilities;
- Presence of above-ground storage tanks (ASTs) and evidence of secondary containment for spill prevention;

- Disposal of solid waste, waste management practices, and general housekeeping of waste storage/disposal areas;
- Evidence of on-site dumping or landfilling;
- Presence of types of equipment that have been historically associated with the use of polychlorinated biphenyls (PCBs) as a dielectric fluid coolant and stabilizer;
- Handling and storage of hazardous materials, such as the presence of 55-gallon drums or 275-gallon tote containers; or
- Presence of drains, sumps, septic systems, wastewater discharges, pits, ponds, lagoons, staining, pooled liquids, stressed vegetation, odors or wells.

Table 3-3 presents a summary of observed potential environmental concerns. Where observations indicate the potential presence of regulated materials, additional discussion is presented in sections immediately following Table 3-3.

Table 3-3 Summary of Observed Potential Regulated Materials

Potential Environmental Concern	Project Area	Study Area	Potential Environmental Concern	Project Area	Study Area
Underground storage tanks(s)	No	Yes	Protected/fenced/ placarded area(s)	No	No
Above-ground storage tank(s)	No	No	Liquid waste (pits, ponds, lagoons, etc.)	No	No
Monitoring/well(s)	No	Yes	Oil sheen (soil/water)	No	No
Electrical transformer(s)/ equipment	Yes	Yes	Oil/gas well(s) or production facilities	No	No
Cistern(s), sump(s), drain(s)	No	No	Mine tailings/waste	No	Yes
Barrel(s), drum(s), container(s)	No	No	Painted/preserved material(s)	Yes	Yes
Stockpile, surface trash, debris	No	No	Odor(s)	No	No
Exposed/buried landfill	No	No	Chemical storage	No	Yes
Battery(ies)	No	No	Suspected asbestos-containing materials (facility component)	No	Yes

Table 3-3 Summary of Observed Potential Regulated Materials

Potential Environmental Concern	Project Area	Study Area	Potential Environmental Concern	Project Area	Study Area
Surface staining	Yes	Yes	Suspected asbestos-containing materials (in soils)	No	No
Stressed vegetation	No	No	Suspected methamphetamine lab(s)	No	No

3.3.2.1 Underground Storage Tanks

Underground storage tanks were not observed in the project area but were observed in the study area. Gas stations were observed adjacent to the north of I-70 in Idaho Springs between exits 241 and 239, as well as off exit 234.

3.3.2.2 Monitoring Wells

Monitoring wells were not observed in the study area. Based on the results of an online permit search, at least 25 municipal, monitoring, domestic and commercial wells are located throughout the study area (Figures 2, 3 and 4; CDWR, 2017). The locations of these wells were not field verified.

3.3.2.3 Electrical Transformers

Electrical transformers have the potential to contain PCB-containing oil. Pole-mounted and pad-mounted electric transformers were identified in the project area and study area. While limited to the public right-of-way, it was not possible to count of the number of transformers. The transformers that were observed appeared to be in good condition with no obvious signs of staining. Although PCBs were generally banned in 1979, the installation date of the transformers observed within the project area is unknown. These transformers have the potential to contain PCBs; however, they are likely owned and operated by the local utility provider. In the event of a release or relocation, the management of the regulated waste would be the responsibility of the utility provider. No significant evidence of a release (e.g., staining) was noted on or around the observed transformers.

3.3.2.4 Surface Staining

A minimal amount of surface staining was observed on the project area right-of-way and in the study area. These stains were generally less than six inches in diameter and appeared to be related to transportation activities.

3.3.2.5 Mine Tailings/Waste

Mine tailings were observed to the south of I-70 to the east of exit 238, near MP 238.

3.3.2.6 Painted or Preserved Materials

Utility poles and boxes were located throughout the study area.

3.3.2.7 Areas of Chemical Storage

Businesses likely to store, use and dispose of chemicals were observed in the study area, generally in the vicinity of Idaho Springs, Downieville, Dumont and Lawson.

3.3.2.8 Suspected Asbestos Containing Materials (Facility Component)

It is not anticipated that structures will be demolished as part of this Project; however, based on observations, it is possible that structures in the study area contain asbestos containing building materials (ACBM). After advancement of design, ACBM sampling will be conducted for impacted structures.

3.3.2.9 Suspected Asbestos Containing Materials (In Soils)

Structures were historically present in the study area and were generally demolished from the early 1900s through the 1960s when I-70 was constructed. Soil filling occurred in many areas due to impacted soil excavations and construction efforts, including the presence of artificial fill beneath the I-70 right-of-way. Demolition debris or fill from unknown sources could be present. It is not uncommon to encounter asbestos associated with buried demolition debris.

3.4 Interviews

During completion of this MESA, property owner interviews and interviews with representatives of CDOT or local municipalities were not conducted. However, Pinyon contacted agencies and individuals who may have knowledge about the study area (Table 3-4). These findings are summarized below. Pertinent information regarding the interviews conducted can be found in the subsequent sections.

Table 3-4 Summary of Persons and Agencies Contacted

Agency/ Affiliation	Website	Date Contacted	Summary
Colorado Department of Public Health and Environment	https://www.colorado.gov/pacific/cdph/e/superfund-sites	9/1/17	Pinyon reviewed information regarding investigation and remediation activities at the Central City Clear Creek Superfund Site.
Environmental Protection Agency	https://cumulis.epa.gov/supercpad/courses/csitinfo.cfm?id=0800257	9/1/17	Pinyon reviewed information regarding investigation and remediation activities at the Central City Clear Creek Superfund Site.
Division of Reclamation Mining and Safety	http://mining.state.co.us	9/4/17	Information reviewed online from the Division of Reclamation Mining and Safety (DRMS) show mine permits along the majority of the study area, however the majority of these permits have been revoked, terminated, or are not active (DRMS, 2017).

Table 3-4 Summary of Persons and Agencies Contacted

Agency/ Affiliation	Website	Date Contacted	Summary
Division of Oil and Public Safety	cdle_ops_public_re cords_center@stat e.co.us	8/28/17 9/5/17 9/6/17	Pinyon reviewed records for USTs and LSTs that were identified as a concern during a review of the GeoSearch data base results.

3.5 Additional Investigations

3.5.1 Lead-Paint Sampling

CDOT requires that painted structures proposed for removal and/or demolition at projects (e.g., signal poles, bridges, concrete abutments) be evaluated for lead content. The demolition of these types of features is anticipated as part of the Project; however, identification of these features has not yet been finalized. Knowing the presence of lead paint on components is used to evaluate: 1) worker health and safety considerations; and 2) recycling and/or disposal options. After these features are identified, paint samples will be collected and analyzed for lead content; analytical results will be presented in the Materials Management Plan (MMP). An MMP will be completed for use during construction of the planned improvements and will address handling and disposal of contaminated materials and other suspect materials encountered during construction activities for the Project. The MMP will also assist field construction personnel in preparing for identification and management of soil and/or groundwater that may be impacted by suspect materials.

CDOT does not expect that painted materials having a total lead content of less than 0.01 percent (%) in paint would exceed Resource Conservation and Recovery Act (RCRA) Hazardous Waste Limits for landfill leaching and disposal. When paint samples contain lead concentrations exceeding 0.01%, CDOT requires analysis by the Toxicity Characteristic Leaching Procedure (TCLP). That sample should include not only paint, but a representative sample of the substrate to which the paint is adhered (e.g., concrete). If after TCLP analysis the results are less than 5.0 mg/L, the material may be disposed as solid waste at a permitted Subtitle D landfill. If the results are equal to or exceed 5.0 mg/L, then lead paint must be abated prior to demolition and disposal. TCLP analysis is required where the total lead concentration is greater than 0.01 percent, and the substrate to which the paint is adhered is not metal.

CDOT requires that all metal project components (e.g., light poles, metal railing, and bridge girders) be recycled. As these materials are recycled, and not disposed at a landfill, it is not necessary to evaluate the content of lead by TCLP, regardless of concentration. The recycling facility must be notified that metal project components contain lead, if applicable. Regardless of lead content, the future contractor must comply with Occupational Safety and Health Administration (OSHA) Regulation 1926.62 for worker safety and any additional direction in the MMP.

Lead paint was previously evaluated for bridge structures F-14-E and F-14-Y (CDOT, 2014a). Lead was detected at several locations on metal project components including guardrails, pipes and fencing.

3.5.2 Asbestos Sampling

It is not anticipated that structures will be demolished as part of this Project. If structures (including bridges) are impacted, a Pre-Demolition/Renovation Asbestos Survey Inspection Report will be completed and results

of the Survey will be included in the MMP. The asbestos surveys will be completed by an EPA-accredited Asbestos Hazard Emergency Response Act ([AHERA]; 40 CFR763) and state of Colorado certified inspector. The samples will be collected following AHERA procedures and delivered to Reservoirs for analysis using polarized light microscopy techniques. Reservoirs is certified by the National Institute of Standards and Technology and is a participant under the National Voluntary Laboratory Accreditation Program.

Asbestos-containing utilities may be encountered during construction activities. Asbestos-containing transite pipes and magnesia block-insulated utilities are occasionally found unexpectedly during excavation activities. There is a possibility that asbestos-containing materials (ACMs) may be encountered associated with buried utilities within the project area.

3.6 Previous Environmental Site Assessments

Pinyon reviewed the following reports during completion of this MESA:

3.6.1 Five Year Review Report, Fourth Five Year Review Report for Central City/Clear Creek Superfund Site, Gilpin and Clear Creek Counties, Colorado

Pinyon reviewed the fourth edition of the Five Year review report for the Central City/Clear Creek Superfund Site (EPA, 2009). Warren Smith, CDPHE contact for this facility, stated that this was the most recent report currently available for review. The purpose of the five-year review is to determine whether remedial actions implemented are protective of human health and the environment and to recommend measures to attain or maintain that protection. The results of the latest five-year review indicated that the remedies implemented to date to address immediate and long-term health and environmental risks are functioning as expected. This Superfund listing is discussed in **Section 3.1.1**.

3.6.2 I-70 Mountain Corridor PEIS Regulated Materials and Historic Mining Technical Report

This report was produced to support the I-70 Mountain Corridor PEIS (CDOT, 2011c). The scope of the report included identification of regulated materials and historic mines, determination of potential impacts of alternatives, consequences of alternatives, and proposed mitigation strategies. The report concluded that:

- Incidents and regulated material facilities that are maintained in the federal and state environmental databases are located throughout the Corridor.
- Mill and mine site locations, including potential water quality issues associated with mill sites, mine wastes, tunnel drainages, and areas containing mineralized rock are located throughout the Corridor.

Four environmental site assessments and one preliminary site investigation were performed in the Corridor between 2004 and 2008, generally near existing interchanges within the Corridor to support CDOT projects not specifically related to the I-70 Mountain Corridor PEIS. These reports were completed for Colorado Boulevard in Idaho Springs, selected eastbound onramps to I-70 between Idaho Springs and Empire, and a MESA in Eagle, Colorado. The locations researched in these reports are not in the WB PPSL project area and are not further discussed in this report.

3.6.3 Modified Environmental Site Assessment, I-70 Eastbound Peak Period Shoulder Lane, Empire Junction to Idaho Springs, Colorado

Pinyon completed a MESA to provide information regarding potential RECs which could be encountered during the completion of the Eastbound PPSL (Appendix E; CDOT, 2014a). The following facilities of concern were identified (and are further discussed in **Sections 3.1.6 and 4.1**):

- *Adjacent Automotive Fueling Station:* An unknown quantity of unleaded gasoline was released from a flexible connector at the Downieville Fuel Stop, located at 1039 County Road 308 in Downieville. This property is approximately 200 feet to the north of the Site and is hydraulically upgradient. Further, this property is located approximately 1,200 feet upgradient of the Dumont on-ramp retaining wall where intensive excavation is anticipated. Elevated benzene concentrations and free phase hydrocarbons were observed in groundwater monitoring wells on the property. Based on the presence of free phase hydrocarbons, this finding is considered to be a REC.

Previous Mining and Milling Operations: Mining and milling activities occurred in the Site vicinity from approximately 1859 to the 1980s. It is possible that mine-related wastes are located beneath the on-Site right-of-way, which could be encountered during construction activities at the Site. It was noted that mine waste could be difficult to distinguish if it had been mixed with clean materials and that this process may also have diluted any chemical concentrations. It is unknown if this process occurred. Several RCRA 8 metals (including arsenic and lead) were detected at levels which exceeded the U.S. EPA Regional Screening Levels (RSLs) for industrial soils. Lead was detected in samples from YA-S-1 at concentrations that would make the soil a hazardous waste (Figure 7). Further, metals have been detected in the on-Site groundwater at levels which exceed the appropriate surface water standard for Segment 2C of Clear Creek. Segment 2C of Clear Creek includes the mainstem of Clear Creek from Mill Creek to the Argo Tunnel and between MP 238 and MP 239.5. Metals concentrations also exceed the applicable groundwater standards at the East Idaho Springs Interchange, MP241. Additionally, chloroform was detected as exceeding the groundwater standard. Based on previous analytical results and it being unknown whether mine waste was mixed with “clean” embankment materials, these previous mining and milling operations that have occurred in the Project vicinity are considered to be RECs.

No additional investigations were recommended; however, Pinyon noted that the potential existed for hazardous materials and mine wastes to be encountered during excavation and recommended that an MMP according to CDOT Standard Specifications be developed and implemented prior to construction activities. It was also concluded that dewatering activities could be necessary at certain locations and that concentrations of contaminants in groundwater could exceed surface water and groundwater standards. Therefore, the water would require either treatment to meet those standards prior to discharge, or off-site disposal.

3.6.3.1 Analytical Results

CDOT requested that additional services be completed to further understand potential contaminant issues first identified during completion of the PEIS. The following services were completed:

- Soil samples were collected concurrently with geotechnical drilling activities. Samples were visually described and the colors evaluated using Munsell Soil Color Charts (Munsell, 2000) to further assess the potential for mine waste. The focus of the evaluation was to visually identify mine wastes in areas where the potential of significant excavation would be located (e.g., widening, retaining walls) to expand the knowledge about contaminants that could occur in the significant disturbance areas. Soil samples were analyzed for RCRA metals by U.S. EPA Method 6010/7471 and pH by U.S. EPA Method 9045C.

- Groundwater samples were collected near SH 103 (YA-B-5), and the East Idaho Springs Interchange (YA-B-1), in the vicinity of automotive fueling stations. Groundwater samples were analyzed for RCRA 8 metals, as well as volatile organic compounds by U.S. EPA Method 8260, and pH using field instrumentation.

In general, the material encountered during drilling included varying depths of fill material composed of sandy, angular to sub-angular gravel sidecast with cobbles and boulders derived from presumably local metamorphic and igneous rock sources. This material overlays rounded gravels, cobbles and boulders, assumed to be alluvium associated with Clear Creek. The color of this material ranged from dark grayish brown, to olive brown and brown.

2012 Twin Tunnels Samples: Five soil samples were collected in the EB PPSL project area, originally supporting the Twin Tunnels project, in July and August of 2012. Due to the inclusion within the WB PPSL project area (near the western boundary of Idaho Springs), the results were considered for this MESA.

2012 Twin Tunnels Sample Results: The sample results were compared to the U.S. EPA RSLs for Industrial Soils as directed by the CDPHE. Metals were detected in all five soil samples collected. Lead was detected in two of the samples collected (both from boring YA-S-1) at concentrations above the RSL of 800 mg/kg for industrial soils. The samples were collected at depths of 13 to 18 feet bgs and 18 to 23 feet bgs within the boring; the concentrations detected were 37,000 and 29,000 mg/kg of lead, respectively (CDOT, 2014). Arsenic was detected in all five soil samples at levels above the current industrial RSL (2.4 mg/kg) with results ranging from 2.5 mg/kg to 540 mg/kg. The two highest results, 190 mg/kg and 540 mg/kg, were reported from the same boring, YA-S-1.

EB PPSL Samples: Twenty-four soil samples from 22 geotechnical borings were collected by Pinyon for laboratory analysis between August 27, and November 14, 2013. Nine samples were collected in the vicinity of SH 103 bridge F-14-E. Significant subsurface work was conducted in this area during the removal and reconstruction of the bridge. The remaining borings were advanced in support of proposed retaining wall structures and were collected by Pinyon across the project area. Metals were detected at concentrations exceeding the RSLs for Industrial Soils in some soil samples.

EB PPSL Sample Results: With the exception of arsenic, the concentrations of the metals detected in the soil samples collected across the remainder of the project area were below the industrial-use RSL. The concentrations of arsenic detected ranged from below the laboratory reporting limit to 14.6 mg/kg. Arsenic was detected in eight of the samples at levels above the RSL for industrial use. The pH readings of the soil samples ranged between 4.4 and 8.08 which did not exceed the hazardous material limit for waste characterization.

In samples, collected by Pinyon in the area of the SH 103 bridge structure, 16 mg/kg and 12.9 mg/kg of arsenic were detected. In samples collected near the western boundary of Idaho Springs, arsenic was detected at concentrations of 190 mg/kg and 540 mg/kg.

Visual evaluation of the material encountered during drilling activities indicates that the subgrade at the locations where significant excavation was completed (near the SH 103 bridge structure over I-70, at the East Idaho Springs interchange, and retaining walls where sampled), is composed of processed blast rock derived from local metamorphic and igneous rock sources upslope of I-70, likely placed when I-70 was initially constructed.

Suspected mine waste was observed at one location due to elevated lead concentrations detected in samples (29,000 mg/kg and 37,000 mg/kg, respectively); due to the high concentrations, the samples were also analyzed

by the TCLP. The concentrations of lead exceeded the TCLP threshold; therefore, this sample was characterized as hazardous.

Pinyon collected groundwater sample YA-B-5 on September 26, 2013, near the SH 103 bridge structure, and a sample from YA-B-1 on February 18, 2014 near the East Idaho Springs Interchange.

Analytes detected within the groundwater samples were compared to the CDPHE—Water Quality Control Commission's Regulation 38. Based on the Site location, surface water discharges to Segment 2C of Clear Creek, which includes the mainstem of Clear Creek from Mill Creek to the Argo Tunnel, generally located between MP 238 and MP 239.5. The first hierarchical regulation is Regulation 38 for inorganic constituents (metals), followed by Regulation 31. Using CDPHE protocols, only chronic standards were examined during this investigation.

If no value was listed for a given metal, table value standards (TVS) from Regulations 31, and 38 for chronic aquatic life impacts, were used. For example, Segment 2C has a numeric limitation for arsenic, whereas other metals such as cadmium and lead have a TVS from Regulations 31 and 38. If no numeric value from Regulation 38, or chronic TVS from Regulations 31 and 38, are given for a specific constituent, then the standard for the most protective use applies. For this segment of Clear Creek, generally located adjacent to the northern and southern boundaries of the project area, the most protective use is for domestic water supply, and those standards were used for comparison. Finally, many of the Regulation 31 and 38 TVS are based on a mathematical formula with the current stream hardness as the variable. CDPHE has provided an average year-round hardness value for this segment of Clear Creek of 75 mg/L, which was utilized as the variable. It should be noted that the samples collected during this investigation were done so using the EPA solid waste methodologies, and may not correlate well to the surface water standards due to the preservation techniques, which differ from the Clean Water Act methodologies. However, the methodology used in this investigation is applicable for comparison to the Colorado Ground Water Standards.

Near the SH 103 bridge, arsenic, mercury, and selenium concentrations were below the laboratory detection limit; however, those limits exceed the appropriate CDPHE surface water standard for Segment 2C of Clear Creek. Cadmium, lead, and silver were all detected at concentrations exceeding the appropriate surface water standard (Appendix E). Cadmium concentrations exceeded the groundwater standards (Appendix E).

Near the East Idaho Springs interchange, several metals were detected at concentrations that exceeded both the surface water and groundwater standards (Appendix E).

The samples were also analyzed for volatile organic compounds (VOCs). With the exception of chloroform, all concentrations were below the laboratory detection limits or the surface water and groundwater standards (Appendix E). The detection of chloroform is most likely attributed to a leaking water line(s) which led to an influx of potable drinking water into the groundwater system. It is believed that other chemicals detected at the East Idaho Springs Interchange may have been introduced during drilling activities as they were not indicative of nearby land uses.

4. Conclusions

4.1 Findings

Pinyon evaluated the project area and study area, including parcels that may be impacted by ground-disturbance activities or easements (if applicable) as a result of the Project. Pinyon identified facilities that pose a potential risk in the form of owner liability (i.e., temporary or permanent easements) as a result of environmental contamination from RECs, CRECs, and HRECs. Only facilities in the immediate vicinity of the project area were considered for liability as having a potential to be impacted (i.e., easements) due to Project activities.

For the purpose of evaluating Project liability (i.e., encountering regulated materials during ground-disturbance activities), facilities were categorized as having a low or high potential to impact the project area. Based on the information obtained and reviewed during this MESA, the following facilities were identified. In addition, Table 4-1 summarizes these facilities, with an indication regarding the type of liability to be considered as the Project progresses.

Recognized Environmental Conditions (RECs)

- *Central City/Clear Creek (GeoSearch ID: 1), Near Town, Idaho Springs, CO.* The Central City/Clear Creek Superfund site includes multiple waste piles, tailing impoundments, milling sites and draining mine adits within a 400-square mile area in the Clear Creek watershed. These historical uses are considered a REC in association with the project area.
 - Thirty-eight former mill locations have been identified in the vicinity of the project area, including 13 known operational mills as of June 2003 (Figures 5, 6 and 7; CDOT, 2014a).
 - Four Superfund remediation locations are in the study area (Figures 5, 6 and 7).
 - It is possible that mine wastes have been utilized as roadway embankment beneath I-70 as well as nearby areas. Mapping information from the USDA indicates that mine waste may be present in two locations beneath the project area (USDA, 2013).
 - In previous investigations, RCRA 8 metals (including arsenic and lead) were detected at levels which exceeded the RSLs for industrial soils (CDPHE, 2014; CDOT, 2014a; Figures 2, 3, and 4). Lead was detected in samples from YA-S-1 at concentrations that would characterize soil as a hazardous waste (Figure 3). Further, metals have been detected in groundwater in the vicinity at levels which exceed the surface water standard for Segment 2C of Clear Creek. Metals concentrations also exceeded the applicable groundwater standards at the East Idaho Springs Interchange. Additionally, chloroform was detected as exceeding the groundwater standard.
- *Downieville (GeoSearch ID: 2; Facility ID: 13518), I70 at Downieville.* Reportedly, several former and current gas stations operated off this exit, to the north of I-70 (Terracon, 1990). Operations at the former and current gas stations may have impacted the project area.
- *Clear Creek Distributing (GeoSearch ID: 3; Facility ID: 10633), I-70 and Exit 243.* Two USTs were removed from the facility in 1993 (Clayton, 2005). Although it was concluded in the NFA request levels of benzene in the downgradient receptor well would not exceed Maximum Contaminant Limits in the next 100 years.
- *Hidden Valley Texaco (GeoSearch ID: 3; Facility ID: 13961), I-70 and Exit 243.* A leak event was reported for the facility after removal of five USTs in 1989 (Delta, 1991). Monitoring wells MW-9 and MW-10 were

located adjacent to I-70; BTEX and TPH were detected in groundwater samples from these wells collected in 1990. Groundwater in the project area may have been impacted.

- *Orphan Tank (GeoSearch ID: 34; Facility ID 18282), 291 CR 308.* An abandoned UST was discovered at a former gas station (Braun, 2007). Based on survey results, it is likely that County Road 308 was constructed over the area where the USTs associated with the former gas station were located, adjacent to the south of the building. No sampling was conducted in this area. These former USTs may have impacted soil and/or groundwater in the project area.
- *Downieville Fuel Stop/Rexoco (GeoSearch ID: 42; Facility ID: 3846), 1039 CR 308 and 1041-1041A CR 308.* Three LST events have been reported for this facility (REX, 2002; Palmetto, 2011); soil and groundwater at this facility have been impacted. As of 2017, the groundwater plume was reported to be moving to the south, towards County Road 308 and I-70. Monitoring well MW-5 is located 50 feet to the north of County Road 308 and approximately 130 feet to the north of I-70. Less than one inch of free product was reported in MW-5 in October 2012. Benzene has been reported above the CDPHE basic standard for benzene in groundwater (0.005 mg/L) for various sampling events every year from 2010 to 2017. This facility is considered a REC in association with the project area.
- *Various spills:* Thirty-nine spill incidents were reported in the GeoSearch database as having occurred in the vicinity of the project area (Appendix C: Agency Database). Review of the listings generally did not provide exact locations where these incidents occurred, with location descriptions based on approximate mile markers. Materials released included diesel fuel, gasoline and sewage; petroleum releases were generally in relatively small quantities of less than 60 gallons. No indication of investigation or cleanup beyond initial report of release and response actions was identified in the environmental database. These spills are considered a REC in association with the project area.
- Structures were historically present throughout the project area. These structures were generally demolished from the early 1900s through the 1960s, when I-70 was constructed. Soil filling occurred in many areas due to impacted soil excavations and construction efforts. Demolition debris or fill from unknown sources which could contain lead-based paint, asbestos containing materials, or other regulated materials or demolition debris such as mine waste, could be present. The potential presence of these regulated materials constitutes a REC for the project area.
- At least 25 monitoring, commercial, domestic and municipal wells are reportedly located in or adjacent to the study area and could be impacted during construction activities.
- CDOT requires that painted structures proposed for removal and/or demolition at projects (e.g., signal poles, bridges, concrete abutments) be evaluated for lead content. The demolition of these types of features is anticipated as part of the Project; however, identification of these features has not yet been finalized. After these features are identified, paint samples will be collected and analyzed for lead content; analytical results will be presented in the MMP.
- Structures in the project area could contain ACMs. It is not anticipated that structures will be demolished as part of this project. If structures (including bridges) are impacted, a Pre-Demolition/Renovation Asbestos Survey Inspection Report will be completed and results of the survey will be included in the MMP.

Controlled RECs

Controlled RECs were not identified in association with the project area.

Historical RECs

Historical RECs were not identified in association with the project area.

De Minimis Conditions

De minimis surface staining was observed on the project area right-of-way. These stains were generally less than six inches in diameter and appeared to be a result of transportation activities. These were not indicative of a release of petroleum products that would warrant a regulatory response.

Non-RECs

Based on factors including, but not limited to: the overall setting in which the study area is located, potential depth to groundwater and groundwater flow direction, existing or past uses of the surrounding properties, the potential migration distance of hazardous substances and/or petroleum products, and distance from the project area, the following facilities were identified as non-RECs in association with the study area:

- *Amoco #5329 (GeoSearch ID: 52; Facility ID: 6517), 1319 Miner Street.* In 1992, USTs and piping were removed from the facility (Handex, 1996). Quarterly groundwater monitoring was conducted for two years, and based on the analytical results, a determination of NFA was issued in 1996. Levels of BTEX and TPH in samples collected from MW-8, adjacent to the project area, were reported as non-detect in all sampling events. It is not likely this facility has impacted the project area and this facility is considered a non-REC in association with the project area.
- *Miner Street Shell (GeoSearch ID: 52; Facility ID: 2423), 115 13th Avenue.* In 2006, approximately 15 gallons of diesel were spilled and flowed to a storm drain leading to a settling pond, then to Clear Creek. Reportedly, based on the very fast rate of flow at the time of the spill, it was assumed that the diesel flowed from the storm drain into Clear Creek without impacting the settling area. The facility received a letter of NFA in 2008 from the OPS. It is not likely this facility has impacted the project area and this facility is considered a non-REC in association with the project area.
- *Orphan Tank (GeoSearch ID 53; Facility ID: 18152), 1840 Miner Street.* A 500-gallon abandoned UST was discovered during construction activities (Braun, 2006). Three soil samples were collected from the excavation and analyzed for BTEX, MTBE, TVPH and TEPH; all samples were reported as non-detect for these analytes. Based on this information, the facility received a letter of NFA in 2006 from the OPS. It is not likely this facility has impacted the project area and this facility is considered a non-REC in association with the project area.
- *CDOT (GeoSearch ID 55; Facility ID: 7418), 2931 Colorado Boulevard.* USTs were removed in 1989, 1991 and 1995; soil samples collected during these investigations indicated elevated levels of TPH and VOCs. After completion of remediation activities, confirmation soil and groundwater samples were collected and analyzed for BTEX and TEH (Walsh, 1996). Concentrations of petroleum constituents were identified in at levels near laboratory detection limits in the sample from MW-5, approximately 150 feet to the north of the I-70 on-ramp; these analytes were non-detect in the remainder of the samples. Based on this information, the facility received a letter of NFA from the OPS. This facility is located adjacent to the north and crossgradient of westbound I-70. This facility is considered a non-REC in association with the project area.
- *Silver City Automotive (GeoSearch ID 54; Facility ID: 15563), 243 Colorado Boulevard.* One waste oil and four gasoline USTs were removed from this facility in 2001 (EME, 2002). Confirmation soil sample analytical

results were below regulatory levels and groundwater was not encountered. Based on this information, the facility received a letter of NFA in 2002 from the OPS. It is not likely this facility has impacted the project area and this facility is considered a non-REC in association with the project area.

- *Kum & Go (GeoSearch ID 56; Facility ID: 18798), 1359 Miner Street.* Soil and groundwater samples collected after two LST events were non-detect for BTEX and petroleum hydrocarbons; NFA letters were issued for both events. This facility is located approximately 200 feet north of I-70. It is not likely this facility has impacted the project area and this facility is considered a non-REC in association with the project area.
- *Blackwell Oil Company (GeoSearch ID 78; Facility ID: 10641), 1246 Miner Street.* A leak was reported in 2008 from diesel dispensers (Braun, 2009). Soil in the boring adjacent to the leaking dispenser was reported at 2,100 mg/kg TEPH in the one foot bgs sample and at 1,300 mg/kg TEPH in the 22 feet bgs sample. Groundwater samples were reported as non-detect for BTEX and petroleum hydrocarbons. The facility was closed by the OPS in 2009, with the notation that soil with a concentration of TEH of 2,100 mg/kg remained in place. Groundwater was reported at 20 feet bgs and flowing to the southeast. It is not likely this facility has impacted the project area and this facility is considered a non-REC in association with the project area.

Table 4-1 Summary of Identified Facilities

Facility Name (Figure 2)	Location/ Distance (feet) and Direction from Project area	Project Liability		Owner Liability			Discussion
		Low	High	REC	CREC	HREC	
Regulatory Files							
Central City/Clear Creek (GeoSearch ID: I)	Near Town, Idaho Springs, CO The project area from MP 230 to MP 243 is within the boundaries of the Superfund site	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Historical mining operations have impacted soil and groundwater throughout the project area. This is a REC in association with the project area; soil and/or groundwater in the project area may have been impacted. Planned depths of excavation and construction activity have not been finalized; at this time, the potential for impacted soil and/or groundwater to be encountered during Project activities is considered High .

Table 4-1 Summary of Identified Facilities

Facility Name (Figure 2)	Location/ Distance (feet) and Direction from Project area	Project Liability		Owner Liability			Discussion
		Low	High	REC	CREC	HREC	
Downieville (GeoSearch ID: 2; Facility ID: 13518)	I70 at Downieville Adjacent to the north of the I-70 frontage road, exit 234	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Reportedly, several former and current gas stations operated off this exit, to the north of I-70. Operations at the former and current gas stations may have impacted the project area. This is a REC in association with the project area; soil and/or groundwater in the project area may have been impacted. Planned depths of excavation and construction activity have not been finalized; at this time, the potential for impacted soil and/or groundwater to be encountered during Project activities is considered High .

Table 4-1 Summary of Identified Facilities

Facility Name (Figure 2)	Location/ Distance (feet) and Direction from Project area	Project Liability		Owner Liability			Discussion
		Low	High	REC	CREC	HREC	
Clear Creek Distributing (GeoSearch ID: 3; Facility ID: 10633),	I-70 and Exit 243 Adjacent to the north of I-70 at exit 234, near MP 243	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p>Levels of benzene in groundwater above RBSLs remain at the facility and are naturally attenuating.</p> <p>This is a REC in association with the project area; soil and/or groundwater in the project area may have been impacted. Planned depths of excavation and construction activity have not been finalized; at this time, the potential for impacted soil and/or groundwater to be encountered during Project activities is considered High.</p>
Hidden Valley Texaco (GeoSearch ID: 3; Facility ID: 13961)	I-70 and Exit 243 Adjacent to the north of I-70, near MP 243	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p>Benzene has been reported in monitoring wells adjacent to the north of I-70. This is a REC in association with the project area; groundwater in the project area may have been impacted. Planned depths of excavation and construction activity have not been finalized; at this time, the potential for impacted groundwater to be encountered during Project activities is considered High.</p>

Table 4-1 Summary of Identified Facilities

Facility Name (Figure 2)	Location/ Distance (feet) and Direction from Project area	Project Liability		Owner Liability			Discussion
		Low	High	REC	CREC	HREC	
Orphan Tank (GeoSearch ID: 34; Facility ID 18282)	291 CR 308 50 feet to the north of I-70, near MP 235	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p>USTs associated with the former gas station were located adjacent to the south of the building and to the north of I-70. These former USTs may have impacted soil and/or groundwater in the project area.</p> <p>This is a REC in association with the project area; soil and/or groundwater in the project area may have been impacted. Planned depths of excavation and construction activity have not been finalized; at this time, the potential for impacted soil and/or groundwater to be encountered during Project activities is considered High.</p>

Table 4-1 Summary of Identified Facilities

Facility Name (Figure 2)	Location/ Distance (feet) and Direction from Project area	Project Liability		Owner Liability			Discussion
		Low	High	REC	CREC	HREC	
Downieville Fuel Stop/Rexoco (GeoSearch ID: 42; Facility ID: 3846)	1039 CR 308 and 1041- 1041A CR 308 60 feet to the north of I-70, near MP 235	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p>Soil and groundwater at this facility have been impacted; as of 2017, the groundwater plume was reported to be moving to the south, towards County Road 308 and I-70. MW-5 is located 50 feet to the north of County Road 308 and approximately 130 feet to the north of I-70. Less than one inch of free product was reported in MW-5 in October 2012 and benzene has been reported above the CDPHE basic standard for benzene in groundwater (0.005 mg/L) for various sampling events every year from 2010 to 2017.</p> <p>This is a REC in association with the project area; groundwater in the project area may have been impacted. Planned depths of excavation and construction activity have not been finalized; at this time, the potential for impacted groundwater to be encountered during Project activities is considered High.</p>

Table 4-1 Summary of Identified Facilities

Facility Name (Figure 2)	Location/ Distance (feet) and Direction from Project area	Project Liability		Owner Liability			Discussion
		Low	High	REC	CREC	HREC	
Various Spills	Various	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p>Thirty-nine spill incidents were reported in the GeoSearch database as having occurred in the vicinity of the project area. Review of the listings generally did not provide exact locations where these incidents occurred, with location descriptions based on approximate mile markers. Materials released included diesel fuel, gasoline and sewage; petroleum releases were generally in relatively small quantities of less than 60 gallons. No indication of investigation or cleanup beyond initial report of release and response actions was identified in the environmental database. These spills are considered a REC in association with the project area. Planned depths of excavation and construction activity have not been finalized; at this time, the potential for impacted soil and/or groundwater to be encountered during Project activities is considered Low.</p>

Table 4-1 Summary of Identified Facilities

Facility Name (Figure 2)	Location/ Distance (feet) and Direction from Project area	Project Liability		Owner Liability			Discussion
		Low	High	REC	CREC	HREC	
Historical Uses							
Project area	Project area	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Structures were historically present throughout the project area. These structures were generally demolished from the early 1900s through the 1960s, when I-70 was constructed. Soil filling occurred in many areas due to impacted soil excavations and construction efforts. Demolition debris or fill from unknown sources which could contain lead-based paint, asbestos containing materials, mine wastes, or other regulated materials or demolition debris could be present. Proposed activities include roadway realignment which could disturb this debris. The potential presence of these regulated materials constitutes a REC for the project area. The potential for this facility to impact the Project is considered Low .

Table 4-1 Summary of Identified Facilities

Facility Name (Figure 2)	Location/ Distance (feet) and Direction from Project area	Project Liability		Owner Liability			Discussion
		Low	High	REC	CREC	HREC	
Monitoring wells and domestic wells	In the project area or adjacent to the project area	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Four monitoring wells and six domestic wells are reportedly located in or adjacent to the project area and could be impacted during construction activities.
Lead Based Paint	In the project area or adjacent to the project area	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	CDOT requires that painted structures proposed for removal and/or demolition at projects (e.g., signal poles, bridges, concrete abutments) be evaluated for lead content. The demolition of these types of features is anticipated as part of the project; however, identification of these features has not yet been finalized. After these features are identified, paint samples will be collected and analyzed for lead content; analytical results will be presented in the MMP.

Table 4-1 Summary of Identified Facilities

Facility Name (Figure 2)	Location/ Distance (feet) and Direction from Project area	Project Liability		Owner Liability			Discussion
		Low	High	REC	CREC	HREC	
Asbestos Containing Materials	In the project area or adjacent to the project area	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Structures in the project area could contain ACMs. It is not anticipated that structures will be demolished as part of this project. If structures (including bridges) are impacted, a Pre-Demolition/Renovation Asbestos Survey Inspection Report will be completed and results of the Survey will be included in the MMP.

Notes:

CREC—Controlled Recognized Environmental Condition

HREC—Historical Recognized Environmental Condition

REC—Recognized Environmental Condition

4.2 Recommendations

The following recommendations are presented:

- Additional investigation is not recommended at this time.
- A Materials Management Plan was prepared and implemented for the EB PPSL project to specify management and disposal practices in areas where contaminated soil and groundwater, including mining and mineral processing wastes, may be encountered during construction. This MMP should be amended and implemented for the WB PPSL. Exemptions from hazardous waste regulation may be granted for certain types of mining wastes under the Bevill Amendment.
- Impacts to some existing wells may not be avoidable. CDOT should initiate discussions with well owners regarding proper abandonment of existing monitoring wells. Impacted monitoring wells would require proper abandonment per Colorado Division of Water Resources requirements.
- Workers on this project must follow CDOT Specification 250—Environmental, Health and Safety Management.
- Structures in the project area could contain ACMs. It is not anticipated that structures will be demolished as part of this Project. If structures (including bridges) are impacted, a Pre-Demolition/Renovation Asbestos Survey Inspection Report will be completed and results of the Survey will be included in the MMP.
- In the unlikely event that suspected ACM is encountered, including with buried utilities, workers must follow CDOT Specification 250.07—Asbestos-Containing Material Management. Additionally, depending on the type of ACM, this material must also be abated in accordance with either Section 5.5 of the Solid Waste Regulations, or Regulation No. 8 of the Air Quality Control Commission Regulations.
- Dewatering activities could potentially be necessary during the installation of deep foundation systems for new ramp structures, signals, or other features. Results of sampling in other locations in the vicinity indicate that metals concentrations in groundwater exceed surface water standards. The water would require either treatment to meet those standards prior to discharge, or off-site disposal.
- Electric transformers that may contain PCBs may require special management and disposal. The Contractor should coordinate with the utility owner for proper removal and disposal of electrical equipment that may be disturbed during construction.
- CDOT requires that painted structures proposed for removal and/or demolition at projects (e.g., signal poles, bridges, concrete abutments) be evaluated for lead content. The demolition of these types of features is anticipated as part of the Project; however, identification of these features has not yet been finalized. After these features are identified, paint samples will be collected and analyzed for lead content; analytical results will be presented in the MMP.
- CDOT requires that all metal project components (e.g., light poles, metal railing, and bridge girders) be recycled. As these materials are recycled, and not disposed at a landfill, it is not necessary to evaluate the content of lead by TCLP, regardless of concentration. The recycling facility must be notified that metal project components contain lead, if applicable. Regardless of lead content, the future contractor must

comply with Occupational Safety and Health Administration (OSHA) Regulation 1926.62 for worker safety.

- At least 25 wells are reportedly located in or adjacent to the project area. After design plans are advanced, the likelihood of impact to wells should be re-evaluated.
- As design is developed, this MESA may require updating and additional evaluation of materials may be required. Alternatively, discussion of the project design and impacts may be included with the MMP

4.3 Mitigation

Mitigation measures are presented in Table 4-2

Table 4-2 Mitigation Tracking

Mitigation Category	Impact from NEPA Document	Commitment from Mitigation Table in Source Document (Use Exact Wording from Table in Source Document)	Responsible Branch	Timing/Phase of Construction Mitigation to be Constructed
Materials and Regulated Solid Waste	Contaminated soil and groundwater from historical uses, spills or leaks may be encountered and disturbed during construction.	Follow the Materials Management Plan, which specifies management and disposal practices in areas where contaminated soil and groundwater, including mining and mineral processing wastes, may be encountered during construction. Workers on this project must follow CDOT Specification 250—Environmental, Health and Safety Management and the Materials Management Plan.	CDOT Environmental, CDOT Engineering, and Contractor	Pre-construction and During Construction
Materials and Regulated Solid Waste	Ground disturbing activities could impact existing mine waste.	Exemptions from hazardous waste regulations may be granted for certain types of mining wastes under the Bevill Amendment. Specifications have been to address this. The Contractor will be required to follow these specification/	CDOT Engineering, CDOT Engineering, and Contractor	Pre-construction and During Construction
Materials and Regulated Solid Waste	Dewatering activities (which are unlikely) could result in the generation of groundwater that exceeds surface water standards for metals.	The groundwater will either require treatment to meet surface water standards prior to discharge, or off-site disposal. Standard CDOT specifications (107.25 and 250) address this and the Contractor will be required to follow these specifications.	CDOT Engineering and Contractor	Pre-construction and During Construction
Materials and Regulated Solid Waste	Monitoring, commercial, domestic and municipal wells are reportedly located in or adjacent to the project area and may be impacted during construction.	CDOT will initiate discussions with well owners regarding potential impacts to existing monitoring wells. Impacted monitoring wells will require proper abandonment and/or relocation per Colorado Division of Water Resources requirements.	CDOT Environmental, CDOT Engineering, and Contractor	Pre-construction, During Construction, and Post-Construction

Table 4-2 Mitigation Tracking

Mitigation Category	Impact from NEPA Document	Commitment from Mitigation Table in Source Document (Use Exact Wording from Table in Source Document)	Responsible Branch	Timing/Phase of Construction Mitigation to be Constructed
Hazardous Materials	Demolition debris or fill from unknown sources which could contain asbestos containing materials (ACM), may be encountered during construction	Samples of suspect materials will be collected and analyzed for ACM. In the unlikely event that suspected ACM is encountered, including with buried utilities, workers must follow CDOT Specification 250.07—Asbestos-Containing Material Management. Additionally, depending on the type of ACM, this material must also be abated in accordance with either Section 5.5 of the Solid Waste Regulations, or Regulation No. 8 of the Air Quality Control Commission Regulations.	CDOT Engineering and Contractor	Pre-construction and During Construction
Hazardous Materials	Demolition or removal of painted structures may occur during construction.	Paint samples will be collected and analyzed for lead content. CDOT requires that all metal project components (e.g., light poles, metal railing, and bridge girders) be recycled. As these materials are recycled, and not disposed at a landfill, it is not necessary to evaluate the content of lead by TCLP, regardless of concentration. The recycling facility must be notified that metal project components contain lead, if applicable. Regardless of lead content, the future contractor must comply with Occupational Safety and Health Administration Regulation 1926.62 for worker safety.	CDOT Engineering and Contractor	Pre-construction and During Construction
Hazardous Materials	Demolition or removal of polychlorinated biphenyl (PCB)-containing structures may occur during construction.	Structures, such as transformers, that may contain PCBs may require special management and disposal. The Contractor will coordinate with the utility owner for proper removal and disposal of electrical equipment that may be disturbed during construction.	CDOT Engineering and Contractor	Pre-construction and During Construction

5. References

Table 5-1 Summary of References Reviewed

Data Source	Reference
Physical Setting	
Topographic Conditions	<p>USGS, 2013. "7.5-Minute Topographic Map, Central City Quadrangle, Colorado," United States Geological Survey, 2013.</p> <p>USGS, 2013. "7.5-Minute Topographic Map, Idaho Springs Quadrangle, Colorado," United States Geological Survey, 2013.</p> <p>USGS, 2013. "7.5-Minute Topographic Map, Squaw Pass Quadrangle, Colorado," United States Geological Survey, 2013.</p>
Hydrogeology Information	<p>Topper, Ralf, 2009. "Managing Stormwater to Protect Groundwater in Mountainous Regions of Colorado," Colorado Geological Survey, July, 2009.</p>
Geotechnical Study	<p>Kellogg, Karl S., Shroba, Ralph R., Bryant, Bruce, Premo, Wayne R., 1980. "Geologic Map of the Denver West 30' x 60' Quadrangle, North Central Colorado," United States Geological Survey, GQ-1524, 1980.</p> <p>USDA, 2003. "Soil Survey of Georgetown Area, Colorado, Parts of Clear Creek, Gilpin, and Park Counties," United States Department of Agriculture, Soil Conservation Service, 2003.</p>
Regulatory Files	
ASTM Standard Record Sources	<p>Geosearch, 2017. "Radius Report, Target Property, Westbound I-70 PPSL, I-70 MM230 to MM243, Clear Creek County, Colorado," Geosearch, 2017.</p>
Search Radii	<p>x ASTM <input type="checkbox"/> Modified</p>
Previous Environmental Reports	<p>Braun. 2006. No Further Action Request Report for Orphan Tank at Miner Street, Idaho Springs, Colorado. October 2, 2006.</p> <p>Braun. 2007. No Further Action Request Report for Orphan Tank at 291 County Road 308, Dumont, Colorado. May 10, 2006.</p> <p>Braun. 2009. Underground Storage Tanks at Blackwell Oil Company, 1246 Miner Street, Idaho Springs, Clear Creek County, Colorado. November 30, 2009.</p>

Table 5-1 Summary of References Reviewed

Data Source	Reference
	<p>Clayton. 2005. Quarterly Groundwater Monitoring Report and No Further Action Request Fourth Quarter 2004, Former Clear Creek Distributing Company, Hidden Valley, Colorado. February 7, 2005.</p> <p>Clear Creek County. 2005. Clear Creek County Greenway Plan. November.</p> <p>Colorado Department of Transportation (CDOT). 2007. I-70 Mountain Corridor Context Sensitive Solutions Process.</p> <p>CDOT. 2011a. Final Programmatic Environmental Impact Statement. I-70 Mountain Corridor. March.</p> <p>CDOT. 2011b. CDOT Environmental Programs Branch Hazardous Materials Guidance Table. February.</p> <p>CDOT. 2011c. I-70 Mountain Corridor Programmatic Environmental Impact Statement Regulated Materials and Historic Mining Technical Report. March.</p> <p>CDOT. 2014a. Modified Environmental Site Assessment, I-70 Peak Period Shoulder Lane, Empire Junction to Idaho Springs, Clear Creek County, Colorado. March 12, 2014.</p> <p>— — —. 2014b. EB I-70 Peak Period Shoulder Lane Categorical Exclusion. April.</p> <p>CDOT. 2015. Region I Lane Closure Strategy—Fourth Edition, 2015 (LCS). Accessed January 27, 2018, at: https://www.codot.gov/library/traffic/work-zone-safety-and-work-zone-traffic-operations/lane-closure-strategies/RI_Lane_Closure_Report.pdf.</p> <p>Delta. 1991. Project Monitoring Report, Texaco Refining and Marketing, Hidden Valley Texaco, Hidden Valley, Colorado. January 24, 1991.</p> <p>EME. 2002. Site Characterization Report, Silver City Automotive and Towing, 243 Colorado Boulevard, Idaho Springs, Colorado. March 20, 2002.</p> <p>EPA. 1991. EPA Superfund Record of Decision: Central City, Clear Creek, EPA ID: COD980717557 OU 3, Idaho Springs, Colorado,” prepared by the U.S. Environmental Protection Agency, September 30, 1991.</p> <p>FHWA. 2011. I-70 Mountain Corridor Record of Decision and Final Programmatic Environmental Impact Statement. June.</p>

Table 5-1 Summary of References Reviewed

Data Source	Reference
	<p>Lewis. 2008. Site Characterization Report, 115 13th Street, Idaho Springs, Colorado. January 22, 2008.</p> <p>Palmetto. 2002. Site Characterization Report, 1041/1041A County Road 308, Downieville, Colorado. January.</p> <p>— — —. 2011. Monitoring and Remediation Report, Downieville Fuel Stop/Rexoco #35, 1039 County Road 308, Downieville, Colorado. November 14, 2013.</p> <p>— — —. 2017. Monitoring and Remediation Report, Downieville Fuel Stop/Rexoco #35, 1039 County Road 308, Downieville, Colorado. June 2, 2017.</p> <p>Rex. 2002. No Further Action Report, Downieville Fuel Stop/Rexoco #35, 1039 County Road 308, Downieville, Colorado. June 20, 2002.</p> <p>Seneca. 2015. Site Assessment Report, Kum & Go 975, 1359 Miner Street, Idaho Springs, Colorado,” Seneca Companies, December 30, 2015.</p> <p>Terracon. 1990. Site Reconnaissance Summary, Downieville LUST TRUST Site, Downieville, Colorado. August 22, 1990.</p> <p>Walsh. 1995. Second Level Site Assessment, CDOT Maintenance Facility, 2931 Colorado Boulevard, Idaho Springs, Colorado. June 9, 1995.</p> <p>— — —. 1996. Corrective Action Plan, CDOT Maintenance Facility, 2931 Colorado Boulevard, Idaho Springs, Colorado. January 8, 1996.</p>
Other Files (Assessor, Fire Department, Building Department, Planning, etc.)	<p>CDWR, 2017. “Colorado Division of Water Resources Well Permit Research,” Colorado Department of Natural Resources Division of Water Resources, 2017.</p> <p>DRMS, 2017. “Colorado Division of Reclamation, Mining and Safety, http://mining.state.co.us,” Colorado Department of Natural Resources, Division of Reclamation, Mining and Safety, 2017.</p>
Historic Land Uses	
Topographic Map(s)	USGS, 1905. “Topographic Map, Georgetown Quadrangle, Colorado,” United States Geological Survey, 1905.

Table 5-1 Summary of References Reviewed

Data Source	Reference
	<p>USGS, 1912. "Topographic Map, Central City Quadrangle, Colorado," United States Geological Survey, 1961.</p> <p>USGS, 1942. "7.5-Minute Topographic Map, Central City Quadrangle, Colorado," United States Geological Survey, 1942.</p> <p>USGS, 1953. "Topographic Map, Denver Quadrangle, Colorado," United States Geological Survey, 1953.</p> <p>USGS, 1957. "7.5-Minute Topographic Map, Idaho Springs Quadrangle, Colorado," United States Geological Survey, 1957.</p> <p>USGS, 1957. "7.5-Minute Topographic Map, Squaw Pass Quadrangle, Colorado," United States Geological Survey, 1957.</p> <p>USGS, 1958. "7.5-Minute Topographic Map, Empire Quadrangle, Colorado," United States Geological Survey, 1958.</p> <p>USGS, 1960. "Topographic Map, Denver Quadrangle, Colorado," United States Geological Survey, 1960.</p> <p>USGS, 1972. "7.5-Minute Topographic Map, Central City Quadrangle, Colorado," United States Geological Survey, 1972.</p> <p>USGS, 1983. "30x60-Minute Topographic Map, Denver West Quadrangle, Colorado," United States Geological Survey, 1983.</p> <p>USGS, 2013. "7.5-Minute Topographic Map, Central City Quadrangle, Colorado," United States Geological Survey, 2013.</p> <p>USGS, 2013. "7.5-Minute Topographic Map, Idaho Springs Quadrangle, Colorado," United States Geological Survey, 2013.</p> <p>USGS, 2013. "7.5-Minute Topographic Map, Squaw Pass Quadrangle, Colorado," United States Geological Survey, 2013.</p>
Aerial Photograph(s)	<p>Pinyon reviewed the following photographs from Clear Creek County online:</p> <p>October 8, 1951, Frame I-27 September 15, 1956, Frame ECB-8-166 October 11, 1957, Frame ECB-21-101 July 2, 1967, Frame BLM-C-4-4</p>

Table 5-1 Summary of References Reviewed

Data Source	Reference
	<p>October 3, 1974, Frame FI6CN 1979, Frame 2-27 July 2, 1998, Frame Virginia Canyon Rd 3-1</p> <p>The following aerials were reviewed on-line using Google Earth:</p> <p>September 5, 1999 December 30, 2002 October 22, 2005 March 30, 2008 October 7, 2012</p>
Sanborn Fire Insurance Map(s)	1886, 1890, 1895, 1900, 1907 and 1931
City Directory(ies)	None
Other	Clear Creek County. 2017. http://clearcreekcounty.org/about-us/attractions-historic-colorado-sites/ .
Interviews	
	None
Other (e.g., analytical reports)	
	<p>CDPHE, 2009. “Five-Year Review Report, Fourth Five-Year Review Report for Central City/Clear Creek Superfund Site, Gilpin and Clear Creek Counties, Colorado,” prepared by the Colorado Department of Public Health and Environment, September 29, 2009.</p> <p>CDPHE, 2014. “Risk Management Guidance for Evaluating Arsenic Concentrations in Soil,” Colorado Department of Public Health and Environment, Hazardous Materials and Waste Management Division, July 2014.</p> <p>CDPHE, 2016. “Regulation No. 41—The Basic Standards for Groundwater,” Colorado Department of Public Health and Environment, Water Quality Control Commission, December 30, 2016.</p> <p>CDPHE, 2017. “Fifth Five-Year Review Report for Central City/Clear Creek Superfund Site, Gilpin and Clear Creek Counties, Colorado,” prepared by the Colorado Department of Public Health and Environment, November 2017.</p>

Table 5-1 Summary of References Reviewed

Data Source	Reference
	<p>EPA, 2015. "Update Fact Sheet, Central City/Clear Creek Superfund Site," Environmental protection Agency, December 2015.</p> <p>Munsell, 2000. "Munsell Soil Color Charts," Published by Munsell Color, 2000.</p>

6. Limitations

A MESA does not meet the ASTM 1527-13 standard, as several key components of the ASTM standard are not included in the MESA methodology, including but not limited to: property observations/access, property owner interviews, or completion of user questionnaires. Additionally, sampling of soils, groundwater and/or surface water is beyond the scope of this MESA, unless otherwise noted herein. The visual assessment was limited to areas accessible along the public right-of-way and did not include access to private properties where right of entry was unavailable, fenced-in areas, interiors of buildings, rear lots or areas not visible from public right-of-way in the project area. Also, interviewing property owners or tenants was beyond the scope of this assessment. Accordingly, it is possible that additional assessment and/or field investigations may be required in the future if right-of-way acquisition is required, including but not limited to, completion of an ASTM 1527-13 Phase I Environmental Site Assessment. Mitigation for potential contaminants, including, but not limited to, development of specific materials management or institutional controls may be required during construction, and have not been completed as part of this MESA.

Figures

Figure I. Site Location

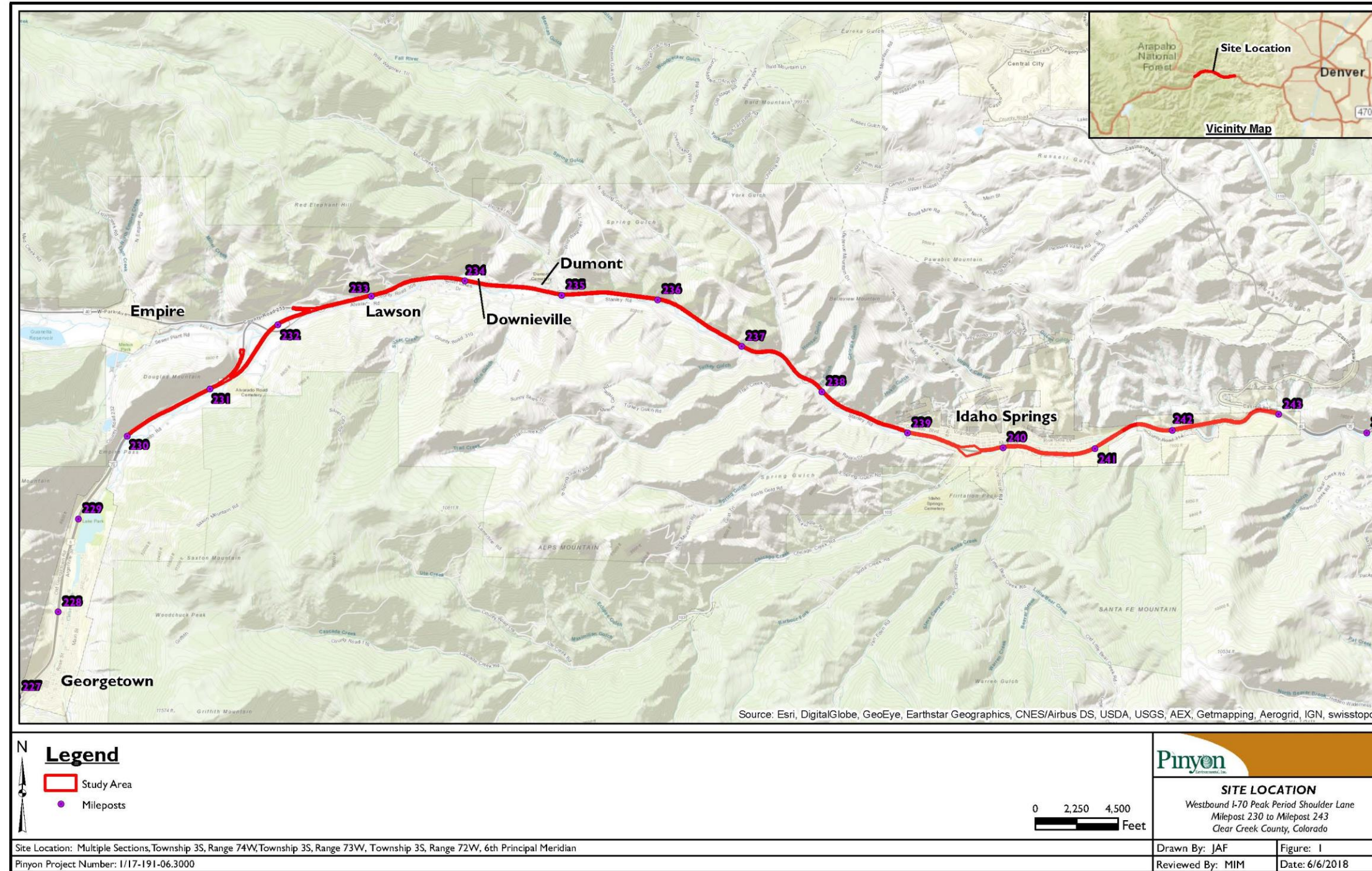


Figure 2. Site Plan—Western Segment

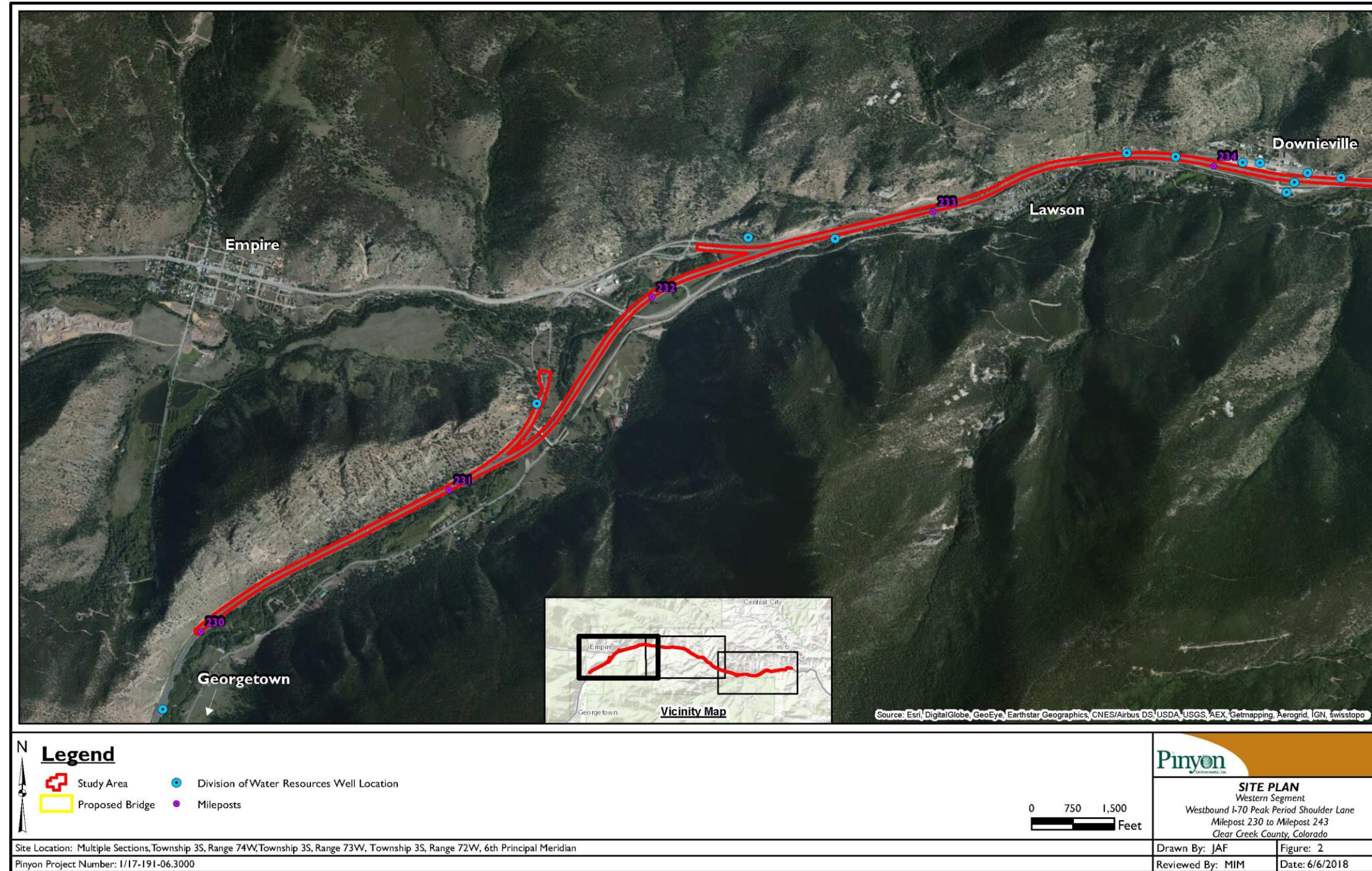


Figure 3. Site Plan—Central Segment

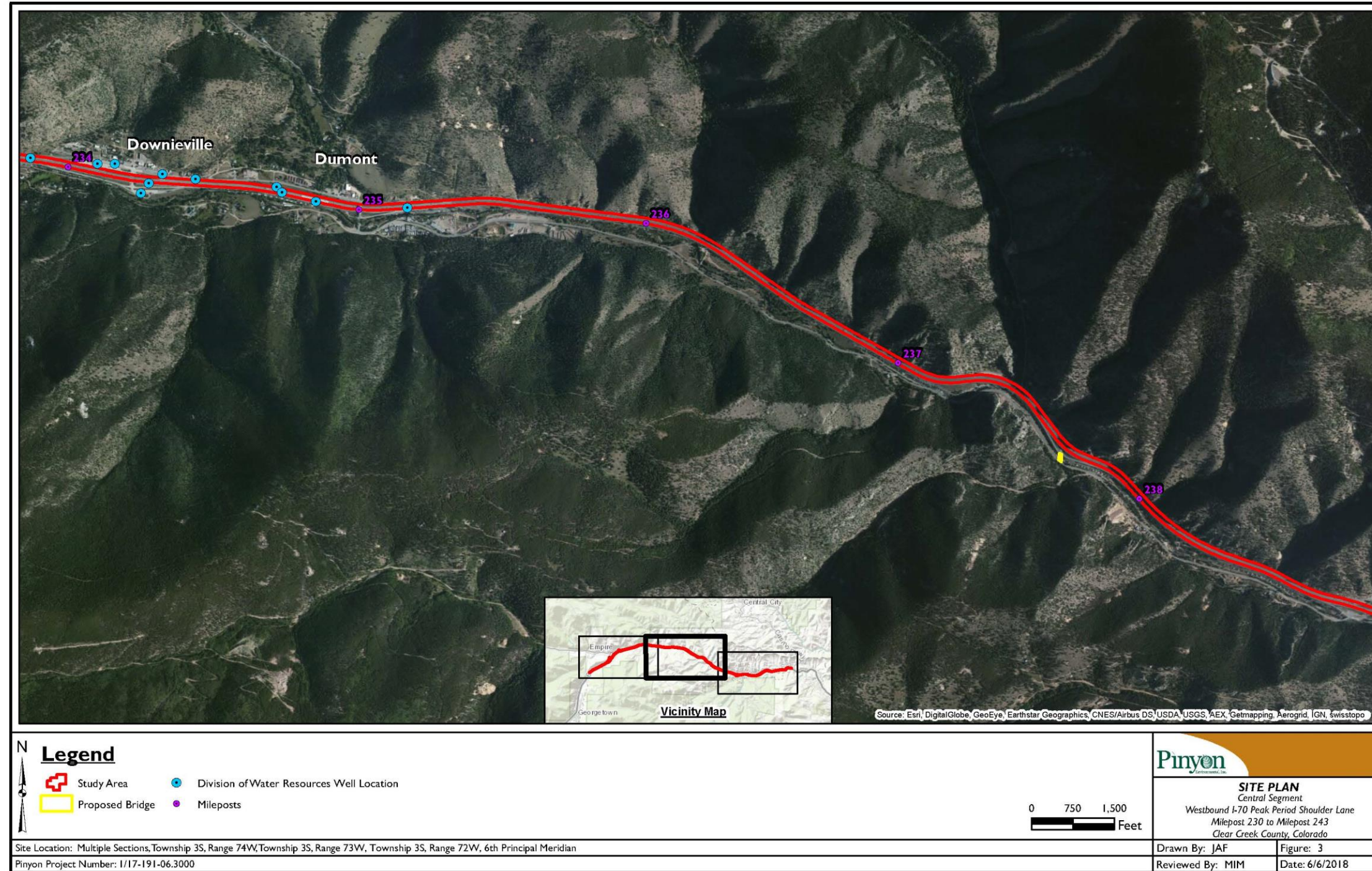


Figure 4. Site Plan—Eastern Segment

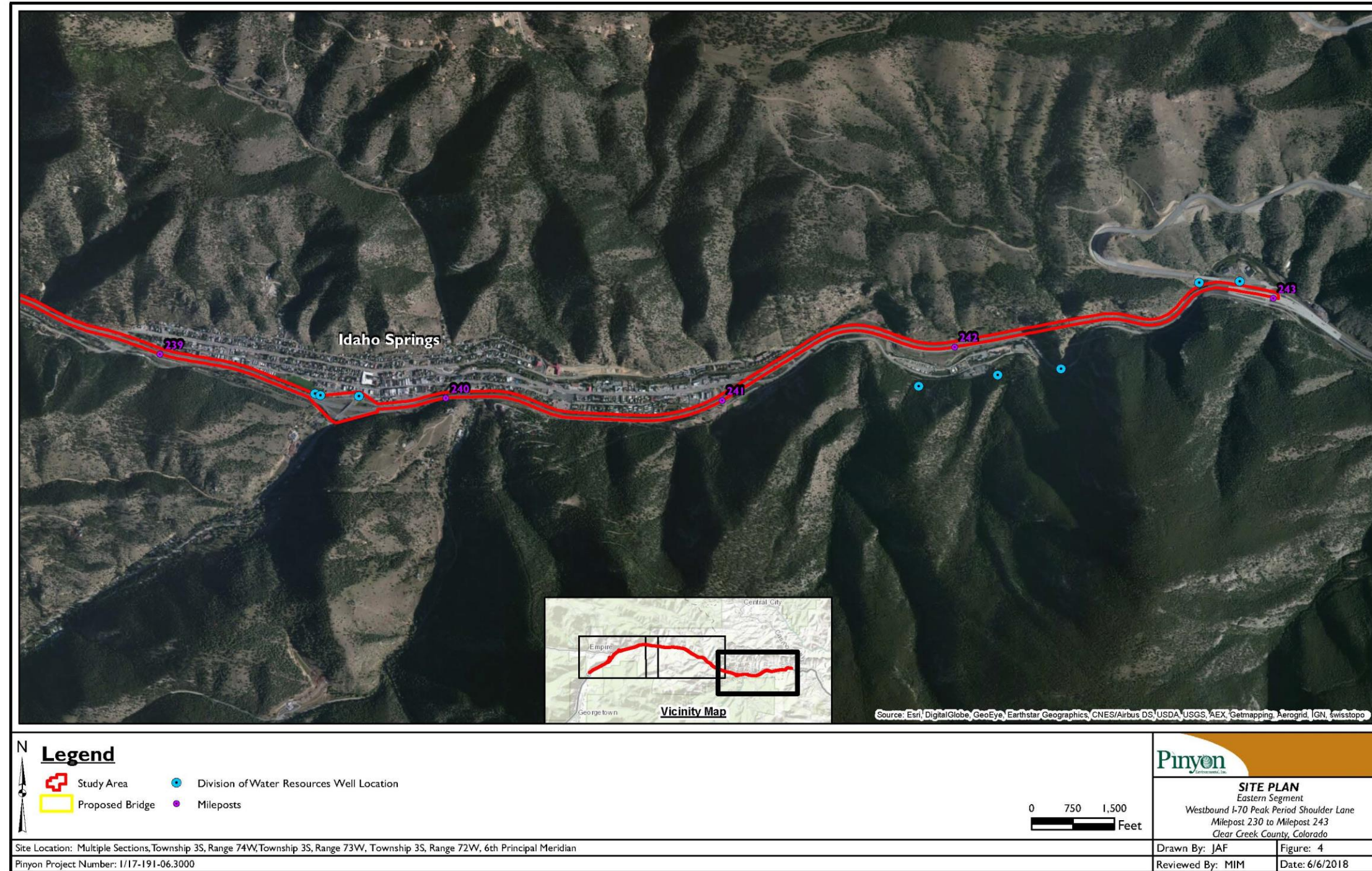


Figure 5. Mining and Investigation Data—Western Segment

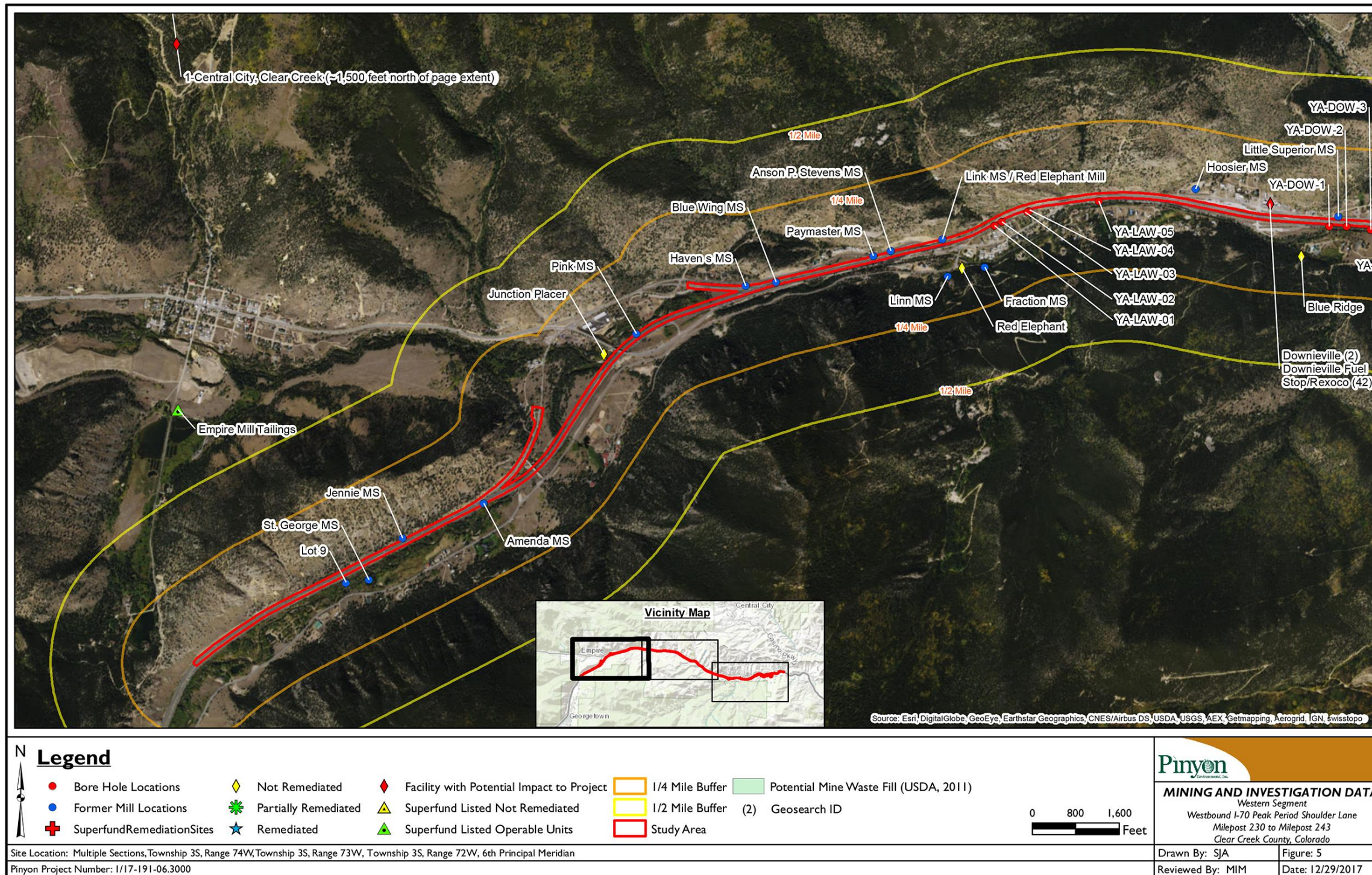


Figure 6. Mining and Investigation Data—Central Segment

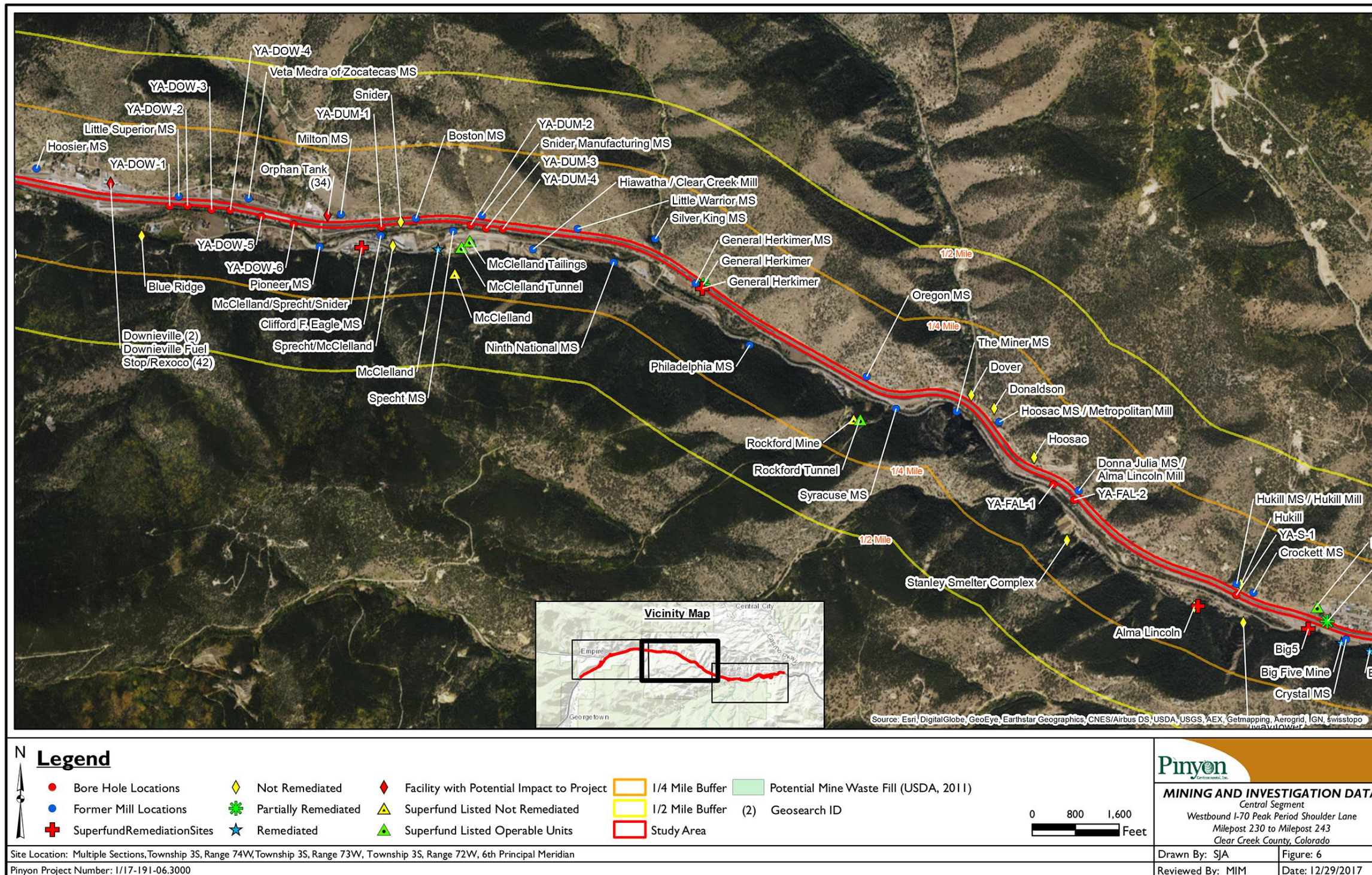
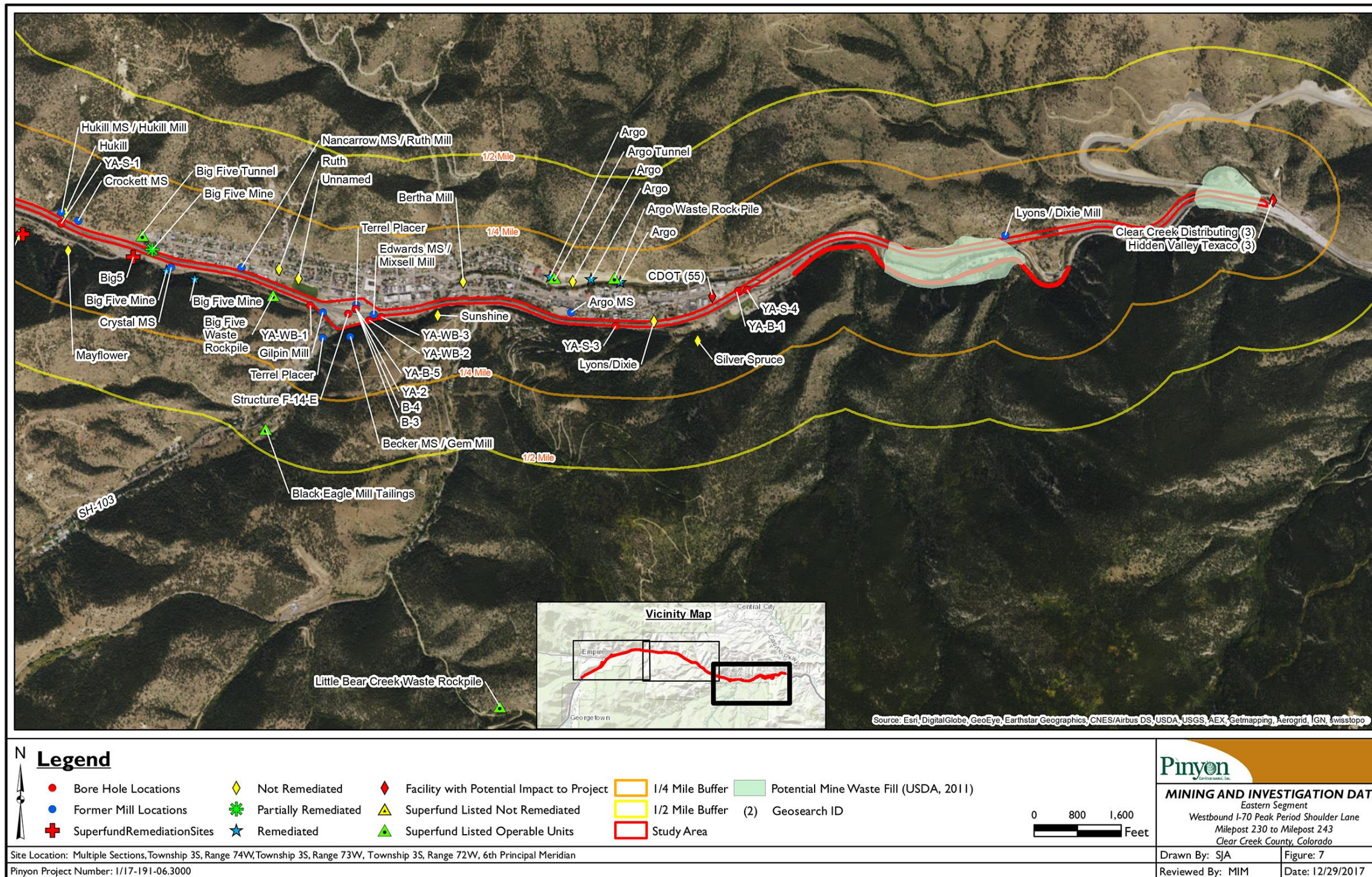


Figure 7. Mining and Investigation Data—Eastern Segment



Appendix A Resumes/Credentials



Michelle I. Marin
Group Manager - Environmental

PROFESSIONAL EXPERIENCE

Ms. Marin is an Environmental Professional and has 20 years of environmental project management experience. Her experience includes pre-acquisition Site Assessments throughout the US, all phases of soil and groundwater investigations and remediation, regulatory compliance and reporting at the local, state and federal levels, spill prevention control and countermeasures (SPCC) Plans, and underground storage tank removals.

RELEVANT EXPERIENCE

Asbestos Surveys. Ms. Marin has performed building surveys and pre-demolition surveys for asbestos at numerous residential, commercial and industrial facilities in Colorado.

Phase I ESAs. Ms. Marin has managed and completed more than 400 pre-acquisition site assessments at residential, commercial and industrial facilities around the country in accordance with ASTM standards. She also managed two pre-acquisition assessments for several hundred oil wells in Wyoming. Specific tasks have included site reconnaissance, owner and tenant interviews, historical aerial photograph and map reviews, city, county and state file reviews and reviews of previous reports. Ms. Marin has also sampled for asbestos-containing building materials, lead in tap water, lead paint and radon during the assessments.

Phase II ESAs. Ms. Marin has extensive experience in conducting subsurface soil and groundwater investigations. She is familiar with numerous drilling and sampling methods, surface water and sediment sampling, and aerial photography interpretation. Ms. Marin is experienced with a wide variety of drilling methods including indoor drilling, hollow stem auger, soil-vapor sampling and Geo-probe sampling. In addition, she has completed excavation, stockpile and trench sampling at numerous commercial and industrial facilities. The studies have been conducted under Resource Conservation and Recovery Act (RCRA), Underground Storage Tank (UST), and Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) regulations, and for non-regulated contamination assessments. Ms. Marin acted as field supervisor for the installation and abandonment of more than 50 groundwater monitoring wells and the installation of over quarter-mile of a groundwater barrier wall at an oil refinery in northern California. She was a team member for a remedial investigation at an oil refinery in Hawaii, and was responsible for the installation of groundwater monitoring wells and assay completion for soil and groundwater samples.

AREAS OF EXPERTISE

- Asbestos Surveys
- Compliance Assistance
- Hazardous Materials Inventory
- Lead Paint Surveys
- Phase I ESAs
- Phase II ESAs
- UST Experience

YEARS EXPERIENCE

23

YEARS WITH PINYON

18

EDUCATION

- MEM, Environmental Management, Duke University
- B.A., Environmental Science, Binghamton University
- B.A., Geology, Binghamton University

CERTIFICATIONS

- First Aid & CPR
- Certified Asbestos Building Inspector, No. 220, Colorado
- OPS Petroleum Storage Tank, No. 6219, Colorado

40 Hour OSHA
HAZWOPER, 8-hour
refresher

TRAINING
“Groundwater Statistics and
Regulations,”
International Groundwater
Modeling Center

Compliance Assistance. Ms. Marin has experience in hazardous material reporting (SARA, RCRA, TRI, Tier II) and environmental audits for industrial clients in multiple states.

Hazardous Materials Inventory. Ms. Marin has performed several hazardous materials inventories for projects in accordance with local regulations.

Lead Paint Surveys. Ms. Marin has performed building surveys for lead-based paint at numerous residential, commercial and industrial facilities.

UST Experience. Ms. Marin has managed numerous UST removals, as well as associated subsurface investigations and remediation. She has been involved in all aspects of UST projects from field sampling and supervision to permit management and data analysis.

PROJECT EXPERIENCE

Sun Valley Redevelopment, Denver, Colorado. Ms. Marin was part of Pinyon's team tasked with conducting Phase I Environmental Site Assessments (ESAs) at over 50 parcels in Denver. Ms. Marin assisted with process planning, collecting and reviewing historical data, conducting site visits and interviews, and evaluating and presenting potential recognized environmental conditions for each parcel.

Platte Farm Phase I ESA and Data Review, City and County of Denver, Colorado. The City and County of Denver wanted to build a park in a residential area on land that had historically been impacted by smelting and dumping- a proposed National Priorities List (NPL) site, which is the list of national priorities among the known releases or threatened releases of hazardous substances, pollutants, or contaminants throughout the United States. Ms. Marin conducted a Phase I ESA as well as reviewed and analyzed over 30 years of projects and data conducted on various portions of the Site. Was able to present a clear picture as to what work had been completed and what still needed to be done to create park. Was able to present the data in table and figure formats so it would be easy for the public to understand.

Denver Public Schools Office Building E. 9th Avenue Ms. Marin completed a standard Phase I ESA for a two-story building for Denver Public Schools. The facility was vacant at the time of the site visit and no additional services were required beyond the Phase I.

Former Qwest Building Ms. Marin completed a standard Phase I ESA on the former Qwest Building for Denver Public Schools. Based on the findings, Pinyon completed additional work including a geophysical survey; Phase II soil and groundwater investigations; water sampling from the basement sump; and a vapor intrusion assessment.



Brian R. Partington

Principal – Project Delivery | QA/QC

AREAS OF EXPERTISE

Phase I ESAs
Phase II ESAs
Contaminant Investigations
Environmental Constraints
Analysis
Geological
Geology
NEPA EA
Remediation
Threatened and Endangered
Species Surveys
UST Experience
VCUP Experience
Wetlands
Assessment/Delineation
Wetlands Permitting

YEARS EXPERIENCE

18

YEARS WITH PINYON

10

EDUCATION

B.S., Environmental Science
with emphasis in Ecological
Restoration, Metropolitan
State University of Denver

REGISTRATIONS

OPS Registered Consultant
Program, Colorado,
Individual Number 6193

CERTIFICATIONS

40 Hour OSHA
HAZWOPER, 8-hour
refresher

PROFESSIONAL EXPERIENCE

Mr. Partington has 18 years of environmental consulting experience and is Pinyon's Project Delivery Principal. At Pinyon he has managed over 200 projects, with over 600 individual tasks, for a variety of public and private sector clients. Mr. Partington has led multi-disciplinary teams through the planning, implementation, and completion of the tasks required to ensure that clients' projects meet regulatory requirements, project goals, budgets, and schedules. Mr. Partington, in close cooperation with Pinyon President Lauren Evans, has a key role in verifying document quality control (QC).

Mr. Partington has worked as project manager and field operations manager on a variety of projects requiring due diligence evaluations, hazardous materials assessments, environmental constraints analysis, and remediation. He has managed projects regulated under Colorado's Underground Storage Tank (UST) regulations, the Resource Conservation and Recovery Act (RCRA), Colorado's Solid Waste and Hazardous Waste Regulations, and under the Colorado Voluntary Cleanup and Recovery Act. He has also completed Brownfields Assessments in accordance with US (Environmental Protection Agency) EPA requirements. Sample property types have included historical landfills, Superfund sites, dry cleaners, gas stations, mine sites, and junk yards.

PROJECT EXPERIENCE

Emergency Flood Repairs, Boulder County, Colorado. Emergency Flood Repairs, Boulder County, Colorado. Mr. Partington is currently leading the environmental documentation, NEPA processes, and permitting effort for over two dozen transportation infrastructure projects in response to the Colorado flooding that took place in September 2013. As a part of this effort, he is working directly with jurisdictional agencies, Federal Emergency Management Agency (FEMA), Federal Highway Administration (FHWA), and CDOT, to scope and complete recovery and repair projects. Pinyon is currently a subconsultant to several major engineering design firms, and also holds an on-call contract with Boulder County Transportation completing these evaluations. The services provided include NEPA evaluations as well as threatened and endangered species, waters of the US, including wetlands, Senate Bill 40, Section 4(f), hazardous materials, and cultural resource surveys. Projects are located in Jefferson, Denver, Boulder, Larimer, Gilpin, and Weld Counties.

US 34 Beautification Project, Lyons, Colorado. The Town of Lyons, in coordination with CDOT, was studying options to enhance US 34 in Lyons, Colorado. NEPA required a Categorical Exclusion (CatEx). Mr. Partington led the environmental task on this project and was responsible for coordination with the Town of Lyons and CDOT Region 4. Based on early consultation with CDOT Region 4, key environmental resources that were cleared for the

MEMBERSHIPS

American Council of
Engineering
Companies/Colorado

American Institute of
Professional Geologists

Association of
Environmental and
Engineering Geologists

TRAINING

ACEC Future Leaders
Supervisor Skills Program

Functional Assessment of
Colorado Wetlands
(FACWet) Methodology
Training

38-Hour Army Corps of
Engineers Wetland
Delineation and
Management Training
Program, Richard Chinn
Environmental Training Inc.

Categorical Exclusion included biological resources (including threatened and endangered species), Wetlands and Waters of the US, hazardous materials and historic resources. A historic district within the project area, consisting of Sandstone buildings is listed on the National Register of Historic Places (NRHP). Additionally, several other individual properties are listed on or determined officially eligible for the NRHP. As a result, Mr. Partington worked closely with Pinyon's historian and CDOT to develop an approach for completing all tasks associated with Section 106 of the National Historic Preservation Act (NHPA).

US 36 Managed Lane/BRT Design/Build Project, Phase 1 and 2 Denver to Boulder, Colorado. As the Environmental Compliance Manager during the design phase, Pinyon was responsible for documenting design changes as part of an interdisciplinary team, confirming that the design matches permitted areas (e.g. Section 404 permit), coordinating permits/approvals and for regulatory and jurisdictional coordination. Pinyon developed the project Environmental Compliance Work Plan, Materials Management Plan, Noxious Weed Management Plans, and FACWet forms for all impacted wetlands along the corridor. Mr. Partington oversaw the biological resource planning during the preconstruction phase of this project. Pinyon mapped Senate Bill 40 trees and shrubs, wrote the Senate Bill 40 Formal reports and coordinated mitigation measures. During the construction phase, Pinyon was responsible for documenting that construction activities meet the mitigation, contractual, and permit commitments.

I-70 Twin Tunnels Reconstruction, CDOT Region 4, Clear Creek County, Colorado. Mr. Partington was Pinyon's project lead for CDOT's Twin Tunnels project, which expanded the eastbound bore near Idaho Springs, an additional lane for capacity, and a new bridge. Mr. Partington's responsibility was for hazardous materials, which was a challenging resource due to a legacy of hardrock and placer mining that had occurred in the vicinity for over 100 years. To evaluate these conditions, numerous soil and groundwater samples were collected, a Phase I ESA was completed, and Mr. Partington prepared the associated EA technical sections and mitigation. For mitigation, a Materials Management Plan was developed in cooperation with CDOT, EPA, and Colorado Department of Public Health and Environment (CDPHE). This project was given FHWA's 2013 Environmental Excellence Award for Environmental Streamlining.

Appendix B Photographic Log

Overpass at I-70
exit 243.



Gas station
approximately 50
feet to the north
of I-70 at exit 243.



Looking west at approximately MP 242.



Looking west towards I-70 exit 241.



Overpass at I-70
exit 241.



Looking west
towards Idaho
Springs from I-70
exit 241.



Looking west from
I-70 exit 240
overpass.



Looking west along
I-70 from exit 239.



Looking west, one-half mile east of I-70 exit 238.



I-70 exit 238 overpass.



Looking west along I-70 from exit 238.



Looking west along I-70, approximately at MP 236.5.



Looking west along I-70, approximately at MP 236.



Looking west towards Dumont at I-70 exit 235.



I-70 exit 235
overpass.



Looking west
towards I-70 exit
234.



Adjacent to the north of I-70 at exit 234.



Overpass and truck scales at I-70 exit 234.



CR 308 under I-70
at Lawson.



CR 308 adjacent
to the north of
I-70 at MP 233.



Looking west
towards I-70 exit
232.



Looking east along
I-70 from US 40
overpass.



Entrance ramp
onto I-70 at MP
231.



I-70 looking west
towards MP 230.



Appendix C Agency Database

Radius Report

[Satellite view](#)

Target Property:

**Westbound I-70 PPSL
I-70 MM230 to MM243
Clear Creek County, Colorado**

Prepared For:

Pinyon Environmental Inc

Order #: 91539

Job #: 199336

Project #: 11719106.3300

Date: 08/14/2017

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<i>Unlocatable Report</i>	See Attachment
<i>Zip Report</i>	See Attachment

Disclaimer

This report was designed by GeoSearch to meet or exceed the records search requirements of the All Appropriate Inquiries Rule (40 CFR §312.26) and the current version of the ASTM International E1527, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process or, if applicable, the custom requirements requested by the entity that ordered this report. The records and databases of records used to compile this report were collected from various federal, state and local governmental entities. It is the goal of GeoSearch to meet or exceed the 40 CFR §312.26 and E1527 requirements for updating records by using the best available technology. GeoSearch contacts the appropriate governmental entities on a recurring basis. Depending on the frequency with which a record source or database of records is updated by the governmental entity, the data used to prepare this report may be updated monthly, quarterly, semi-annually, or annually.

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Target Property Summary

Target Property Information

Westbound I-70 PPSL
I-70 MM230 to MM243
Colorado

Coordinates

Corridor

USGS Quadrangle

Central City, CO
Idaho Springs, CO
Empire, CO
Georgetown, CO
Squaw Pass, CO

Geographic Coverage Information

County/Parish: Clear Creek (CO) , Gilpin (CO)

ZipCode(s):

Central City CO: 80427
Dumont CO: 80436
Empire CO: 80438
Evergreen CO: 80439
Georgetown CO: 80444
Idaho Springs CO: 80452

Radon

* Target property is located in Radon Zone 1.

Zone 1 areas have a predicted average indoor radon screening level greater than 4 pCi/L (picocuries per liter).

Database Summary

FEDERAL LISTING

Standard Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
RESOURCE CONSERVATION & RECOVERY ACT - NON-GENERATOR	RCRANGR08	0	0	TP/AP
EMERGENCY RESPONSE NOTIFICATION SYSTEM	ERNSCO	14	0	0.1250
RESOURCE CONSERVATION & RECOVERY ACT - GENERATOR	RCRAGR08	3	0	0.1250
FEMA OWNED STORAGE TANKS	FEMAUST	0	0	0.2500
FEDERAL ENGINEERING INSTITUTIONAL CONTROL SITES	EC	1	0	0.2500
LAND USE CONTROL INFORMATION SYSTEM	LUCIS	0	0	0.2500
RCRA SITES WITH CONTROLS	RCRASC	0	0	0.2500
BROWNFIELDS MANAGEMENT SYSTEM	BF	0	0	0.5000
NO LONGER REGULATED RCRA NON-CORRACTS TSD FACILITIES	NLRRCRAT	0	0	0.5000
RESOURCE CONSERVATION & RECOVERY ACT - NON-CORRACTS TREATMENT, STORAGE & DISPOSAL FACILITIES	RCRAT	0	0	0.5000
SUPERFUND ENTERPRISE MANAGEMENT SYSTEM	SEMS	3	0	0.5000
SUPERFUND ENTERPRISE MANAGEMENT SYSTEM ARCHIVED SITE INVENTORY	SEMSARCH	1	0	0.5000
DELISTED NATIONAL PRIORITIES LIST	DNPL	0	0	1.0000
NATIONAL PRIORITIES LIST	NPL	1	0	1.0000
NO LONGER REGULATED RCRA CORRECTIVE ACTION FACILITIES	NLRRCRAC	0	0	1.0000
PROPOSED NATIONAL PRIORITIES LIST	PNPL	0	0	1.0000
RESOURCE CONSERVATION & RECOVERY ACT - CORRECTIVE ACTION FACILITIES	RCRAC	0	0	1.0000
RESOURCE CONSERVATION & RECOVERY ACT - SUBJECT TO CORRECTIVE ACTION FACILITIES	RCRASUBC	0	0	1.0000
SUB-TOTAL		23	0	

Additional Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
AEROMETRIC INFORMATION RETRIEVAL SYSTEM / AIR FACILITY SUBSYSTEM	AIRSAFS	0	0	TP/AP
BIENNIAL REPORTING SYSTEM	BRS	0	0	TP/AP
CERCLIS LIENS	SFLIENS	0	0	TP/AP
EPA DOCKET DATA	DOCKETS	0	0	TP/AP
ENFORCEMENT AND COMPLIANCE HISTORY INFORMATION	ECHOR08	1	0	TP/AP
FACILITY REGISTRY SYSTEM	FRSCO	2	0	TP/AP

Database Summary

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
INTEGRATED COMPLIANCE INFORMATION SYSTEM (FORMERLY DOCKETS)	ICIS	1	0	TP/AP
INTEGRATED COMPLIANCE INFORMATION SYSTEM NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM	ICISNPDES	1	0	TP/AP
MATERIAL LICENSING TRACKING SYSTEM	MLTS	0	0	TP/AP
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM	NPDESR08	0	0	TP/AP
PCB ACTIVITY DATABASE SYSTEM	PADS	0	0	TP/AP
PERMIT COMPLIANCE SYSTEM	PCSR08	0	0	TP/AP
SEMS LIEN ON PROPERTY	SEMCLIENS	0	0	TP/AP
SECTION SEVEN TRACKING SYSTEM	SSTS	0	0	TP/AP
TOXIC SUBSTANCE CONTROL ACT INVENTORY	TSCA	0	0	TP/AP
HAZARDOUS MATERIALS INCIDENT REPORTING SYSTEM	HMIRSR08	2	0	0.1250
TOXICS RELEASE INVENTORY	TRI	0	0	0.1250
ALTERNATIVE FUELING STATIONS	ALTFUELS	1	0	0.2500
CLANDESTINE DRUG LABORATORY LOCATIONS	CDL	2	0	0.2500
HISTORICAL GAS STATIONS	HISTPST	0	0	0.2500
INTEGRATED COMPLIANCE INFORMATION SYSTEM DRYCLEANERS	ICISCLEANERS	0	0	0.2500
MINE SAFETY AND HEALTH ADMINISTRATION MASTER INDEX FILE	MSHA	2	0	0.2500
MINERAL RESOURCE DATA SYSTEM	MRDS	240	0	0.2500
OPEN DUMP INVENTORY	ODI	0	0	0.5000
SURFACE MINING CONTROL AND RECLAMATION ACT SITES	SMCRA	6	0	0.5000
URANIUM MILL TAILINGS RADIATION CONTROL ACT SITES	USUMTRCA	0	0	0.5000
DEPARTMENT OF DEFENSE SITES	DOD	0	0	1.0000
FORMER MILITARY NIKE MISSILE SITES	NMS	0	0	1.0000
FORMERLY USED DEFENSE SITES	FUDS	0	0	1.0000
FORMERLY UTILIZED SITES REMEDIAL ACTION PROGRAM	FUSRAP	0	0	1.0000
RECORD OF DECISION SYSTEM	RODS	1	0	1.0000
SUB-TOTAL		259	0	

Database Summary

STATE (CO) LISTING

Standard Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
HAZARDOUS WASTE SITES- GENERATOR	HWSG	0	0	0.1250
ABOVEGROUND STORAGE TANK FACILITIES	AST	18	0	0.2500
ENVIRONMENTAL REAL COVENANTS LIST	COVENANTS	0	0	0.2500
UNDERGROUND STORAGE TANK FACILITIES	UST	25	0	0.2500
HISTORICAL SOLID WASTE LANDFILLS	HISTSWLF	1	0	0.5000
LEAKING STORAGE TANK FACILITIES	LST	19	0	0.5000
LEAKING UNDERGROUND STORAGE TANKS TRUST FUND SITES	LUSTTRUST	0	0	0.5000
SOLID WASTE FACILITIES	SWF	3	0	0.5000
VOLUNTARY CLEANUP AND REDEVELOPMENT PROGRAM SITES	VCRA	0	0	0.5000
HAZARDOUS WASTE SITES- CORRECTIVE ACTION	HWSCA	0	0	1.0000
SUPERFUND SITES	SF	1	0	1.0000
SUB-TOTAL		67	0	

Additional Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
AIR POLLUTION CONTROL DIVISION PERMITTED FACILITIES	APCDP	0	0	TP/AP
ASBESTOS ABATEMENT AND DEMOLITION PROJECTS	ASBESTOS	0	0	TP/AP
COLORADO DISCHARGE PERMIT SYSTEM FACILITIES	CDPS	1	0	TP/AP
SPILLS LISTING	SPILLS	39	0	0.1250
CLANDESTINE DRUG LABORATORY LOCATIONS	CDL	1	0	0.2500
DRY CLEANING FACILITIES	CLEANERS	1	0	0.5000
HAZARDOUS WASTE SITES- TREATMENT, STORAGE & DISPOSAL	HWSTSD	0	0	0.5000
METHANE GAS STUDY SITES	METHANESITES	0	0	0.5000
URANIUM MILL TAILINGS SITES	UMTS	0	0	0.5000
SUB-TOTAL		42	0	

Database Summary

TRIBAL LISTING

Standard Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
UNDERGROUND STORAGE TANKS ON TRIBAL LANDS	USTR08	0	0	0.2500
LEAKING UNDERGROUND STORAGE TANKS ON TRIBAL LANDS	LUSTR08	0	0	0.5000
OPEN DUMP INVENTORY ON TRIBAL LANDS	ODINDIAN	0	0	0.5000
SUB-TOTAL		0	0	

Additional Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
INDIAN RESERVATIONS	INDIANRES	0	0	1.0000
SUB-TOTAL		0	0	
TOTAL		391	0	

Database Radius Summary

FEDERAL LISTING

Standard environmental records are displayed in **bold**.

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
AIRSAFS	0.0200	0	NS	NS	NS	NS	NS	0
BRS	0.0200	0	NS	NS	NS	NS	NS	0
DOCKETS	0.0200	0	NS	NS	NS	NS	NS	0
ECHOR08	0.0200	1	NS	NS	NS	NS	NS	1
FRSCO	0.0200	2	NS	NS	NS	NS	NS	2
ICIS	0.0200	1	NS	NS	NS	NS	NS	1
ICISNPDES	0.0200	1	NS	NS	NS	NS	NS	1
MLTS	0.0200	0	NS	NS	NS	NS	NS	0
NPDES08	0.0200	0	NS	NS	NS	NS	NS	0
PADS	0.0200	0	NS	NS	NS	NS	NS	0
PCSR08	0.0200	0	NS	NS	NS	NS	NS	0
RCRANGR08	0.0200	0	NS	NS	NS	NS	NS	0
SEMSLIENS	0.0200	0	NS	NS	NS	NS	NS	0
SFLIENS	0.0200	0	NS	NS	NS	NS	NS	0
SSTS	0.0200	0	NS	NS	NS	NS	NS	0
TSCA	0.0200	0	NS	NS	NS	NS	NS	0
ERNSCO	0.1250	10	4	NS	NS	NS	NS	14
HMIRSR08	0.1250	1	1	NS	NS	NS	NS	2
RCRAGR08	0.1250	0	3	NS	NS	NS	NS	3
TRI	0.1250	0	0	NS	NS	NS	NS	0
ALTFUELS	0.2500	0	1	0	NS	NS	NS	1
CDL	0.2500	0	0	2	NS	NS	NS	2
EC	0.2500	1	0	0	NS	NS	NS	1
FEMAUST	0.2500	0	0	0	NS	NS	NS	0
HISTPST	0.2500	0	0	0	NS	NS	NS	0
ICISCLEANERS	0.2500	0	0	0	NS	NS	NS	0
LUCIS	0.2500	0	0	0	NS	NS	NS	0
MRDS	0.2500	17	168	55	NS	NS	NS	240
MSHA	0.2500	0	2	0	NS	NS	NS	2
RCRASC	0.2500	0	0	0	NS	NS	NS	0
BF	0.5000	0	0	0	0	NS	NS	0
NLRRCRAT	0.5000	0	0	0	0	NS	NS	0
ODI	0.5000	0	0	0	0	NS	NS	0
RCRAT	0.5000	0	0	0	0	NS	NS	0
SEMS	0.5000	1	0	0	2	NS	NS	3

Database Radius Summary

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
SEMSARCH	0.5000	0	0	1	0	NS	NS	1
SMCRA	0.5000	0	2	2	2	NS	NS	6
USUMTRCA	0.5000	0	0	0	0	NS	NS	0
DNPL	1.0000	0	0	0	0	0	NS	0
DOD	1.0000	0	0	0	0	0	NS	0
FUDS	1.0000	0	0	0	0	0	NS	0
FUSRAP	1.0000	0	0	0	0	0	NS	0
NLRRCRAC	1.0000	0	0	0	0	0	NS	0
NMS	1.0000	0	0	0	0	0	NS	0
NPL	1.0000	1	0	0	0	0	NS	1
PNPL	1.0000	0	0	0	0	0	NS	0
RCRAC	1.0000	0	0	0	0	0	NS	0
RCRASUBC	1.0000	0	0	0	0	0	NS	0
RODS	1.0000	1	0	0	0	0	NS	1
SUB-TOTAL		37	181	60	4	0	0	282

Database Radius Summary

STATE (CO) LISTING

Standard environmental records are displayed in **bold**.

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
APCDP	0.0200	0	NS	NS	NS	NS	NS	0
ASBESTOS	0.0200	0	NS	NS	NS	NS	NS	0
CDPS	0.0200	1	NS	NS	NS	NS	NS	1
HWSG	0.1250	0	0	NS	NS	NS	NS	0
SPILLS	0.1250	8	30	NS	NS	NS	NS	38
AST	0.2500	2	16	0	NS	NS	NS	18
CDL	0.2500	0	0	1	NS	NS	NS	1
COVENANTS	0.2500	0	0	0	NS	NS	NS	0
UST	0.2500	2	23	0	NS	NS	NS	25
CLEANERS	0.5000	0	1	0	0	NS	NS	1
HISTSWLF	0.5000	0	0	1	0	NS	NS	1
HWSTSD	0.5000	0	0	0	0	NS	NS	0
LST	0.5000	3	16	0	0	NS	NS	19
LUSTTRUST	0.5000	0	0	0	0	NS	NS	0
METHANESITES	0.5000	0	0	0	0	NS	NS	0
SWF	0.5000	0	2	1	0	NS	NS	3
UMTS	0.5000	0	0	0	0	NS	NS	0
VCRA	0.5000	0	0	0	0	NS	NS	0
HWSCA	1.0000	0	0	0	0	0	NS	0
SF	1.0000	1	0	0	0	0	NS	1
SUB-TOTAL		17	88	3	0	0	0	108

Database Radius Summary

TRIBAL LISTING

Standard environmental records are displayed in **bold**.

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
USTR08	0.2500	0	0	0	NS	NS	NS	0
LUSTR08	0.5000	0	0	0	0	NS	NS	0
ODINDIAN	0.5000	0	0	0	0	NS	NS	0
INDIANRES	1.0000	0	0	0	0	0	NS	0

SUB-TOTAL		0	0	0	0	0	0	0
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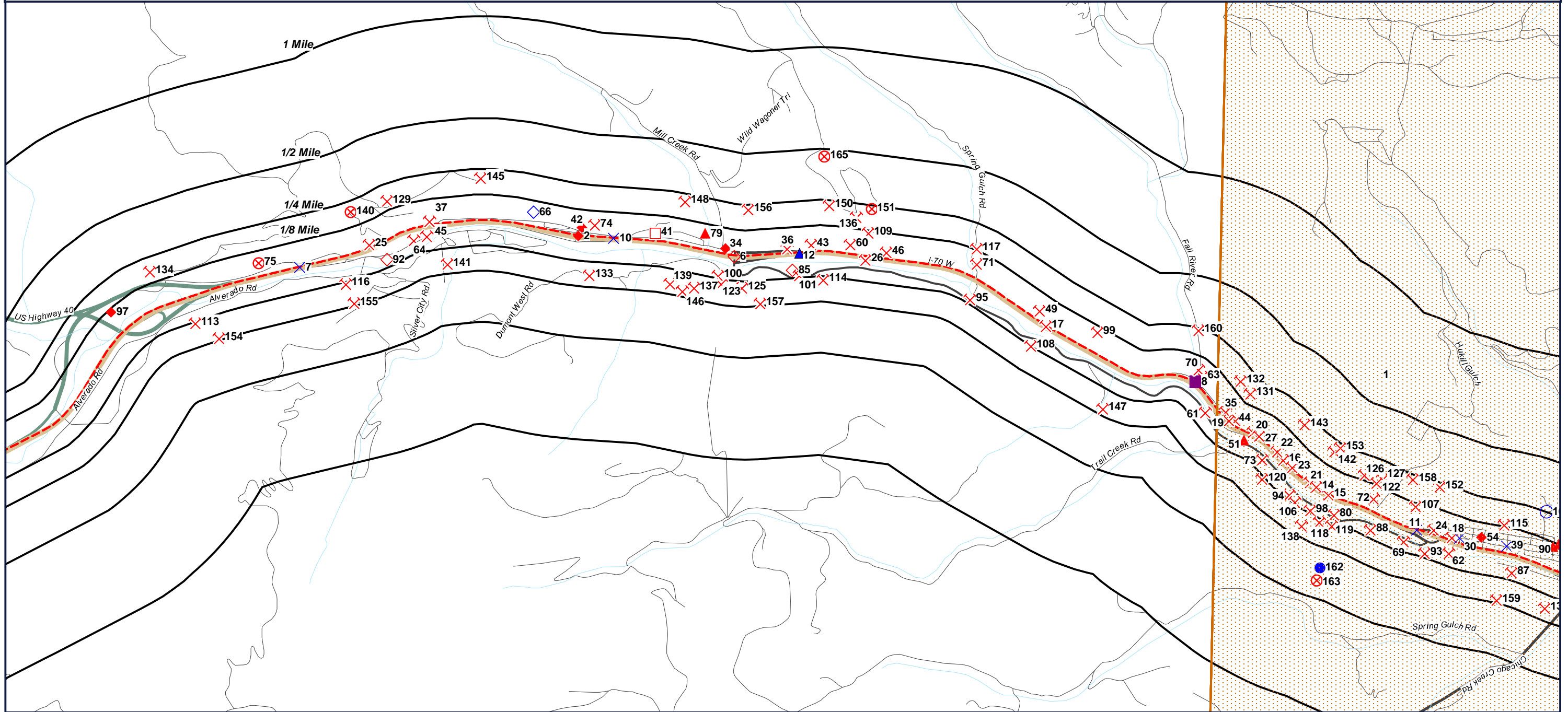
TOTAL		54	269	63	4	0	0	390
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NOTES:

NS = NOT SEARCHED

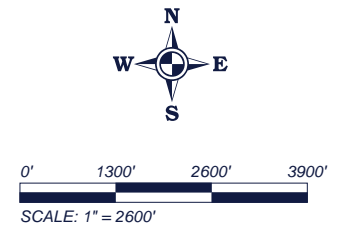
TP/AP = TARGET PROPERTY/ADJACENT PROPERTY

RADIUS MAP

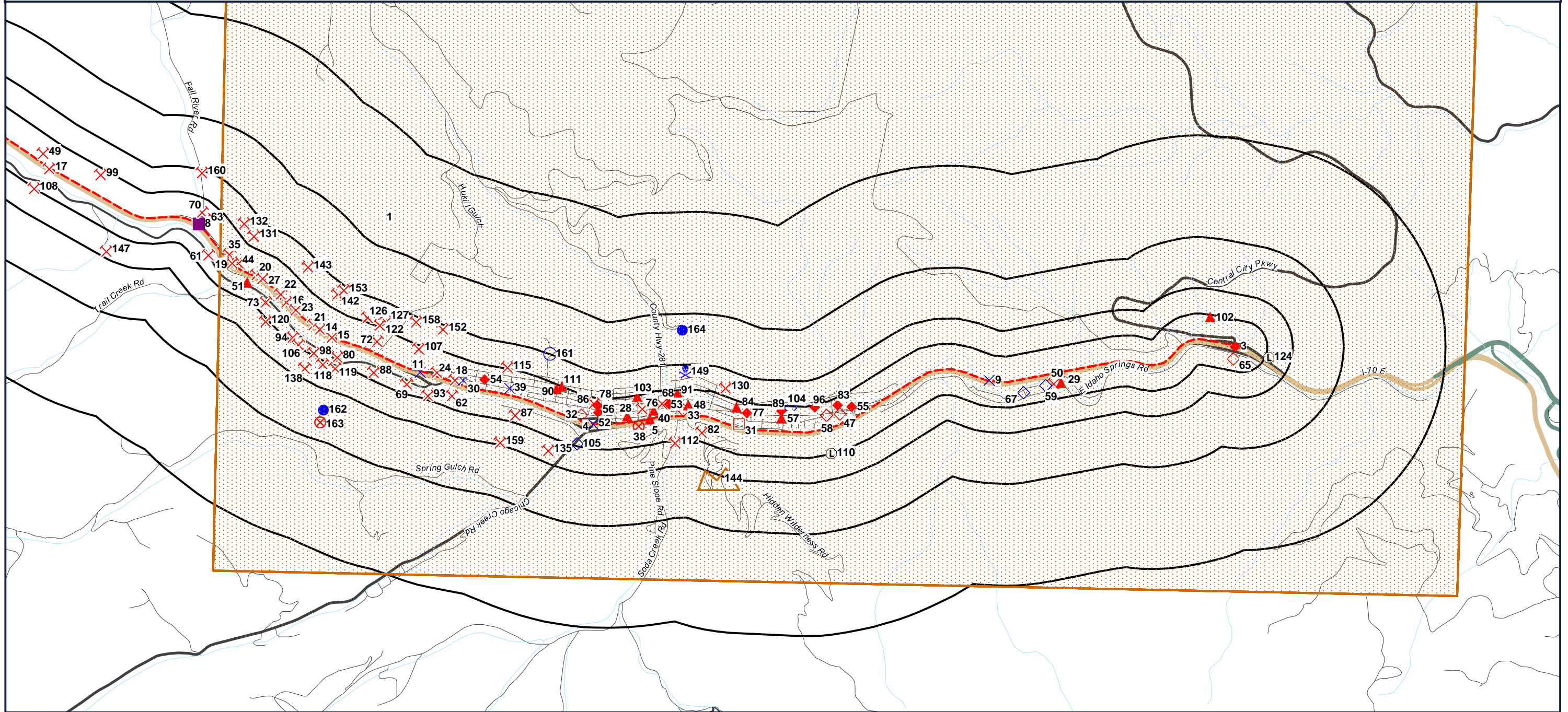


**Westbound I-70 PPSL
I-70 MM230 to MM243
Clear Creek County, Colorado**

- Target Property (TP)
- RODS
- ICIS
- EC
- SF
- FRSCO
- SEMS
- ECHOR08
- NPL
- LST
- ERNSCO
- SPILLS
- UST
- CDPS
- HMIRSR08
- MRDS
- RCRAGR08
- SMCRA
- AST
- MSHA
- HISTSWLF
- SWF
- CDL
- CDL
- SEMSARCH
- SEMS



RADIUS MAP

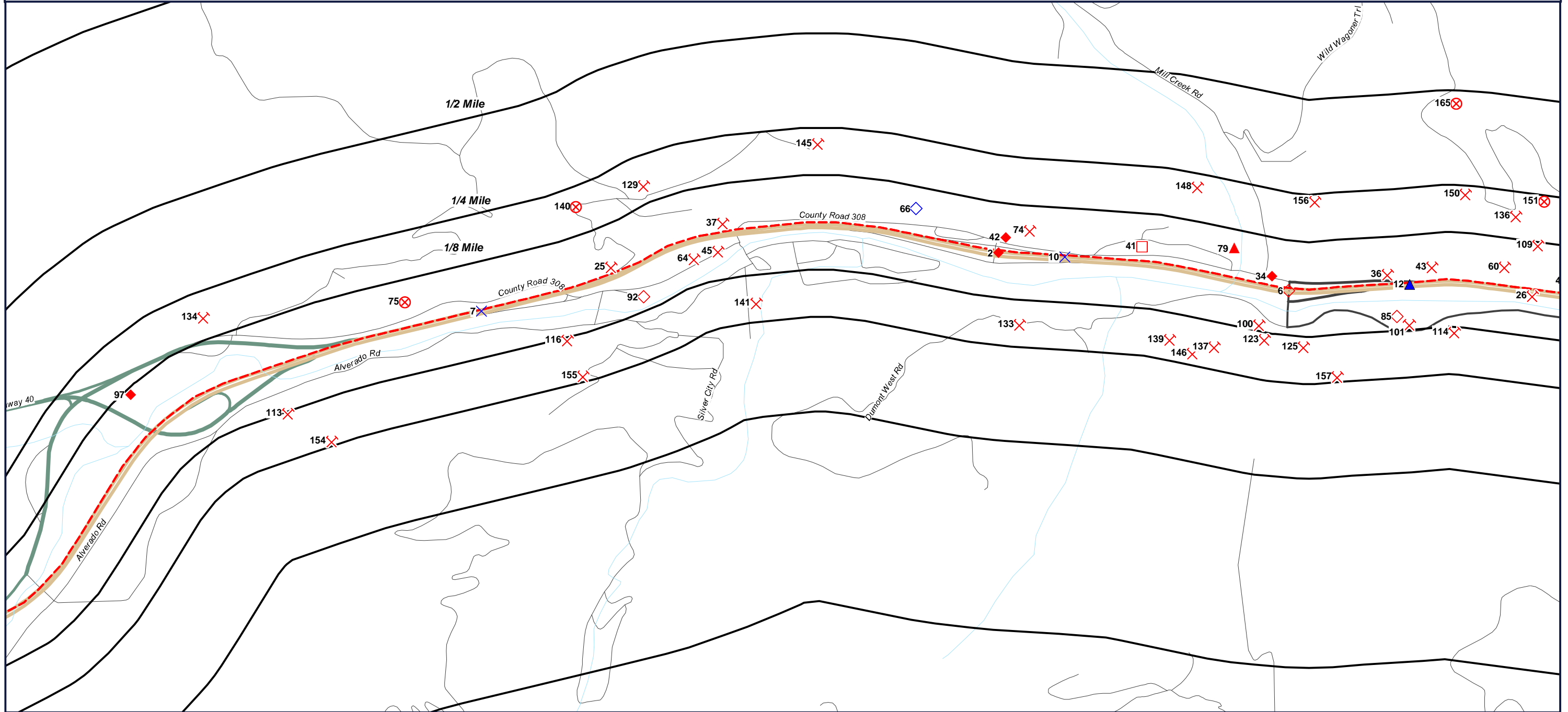


**Westbound I-70 PPSL
I-70 MM230 to MM243
Clear Creek County, Colorado**

- | | | | |
|----------------------|----------|----------|------|
| Target Property (TP) | LST | SMCRA | SEMS |
| RODS | ERNSCO | AST | |
| ICIS | SPILLS | MSHA | |
| EC | UST | HISTSWLF | |
| SF | CDPS | SWF | |
| FRSCO | HMIRSR08 | CDL | |
| SEMS | MRDS | CDL | |
| ECHOR08 | RCRA08 | SEMSARCH | |
| NPL | | | |

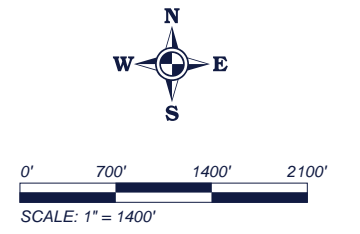


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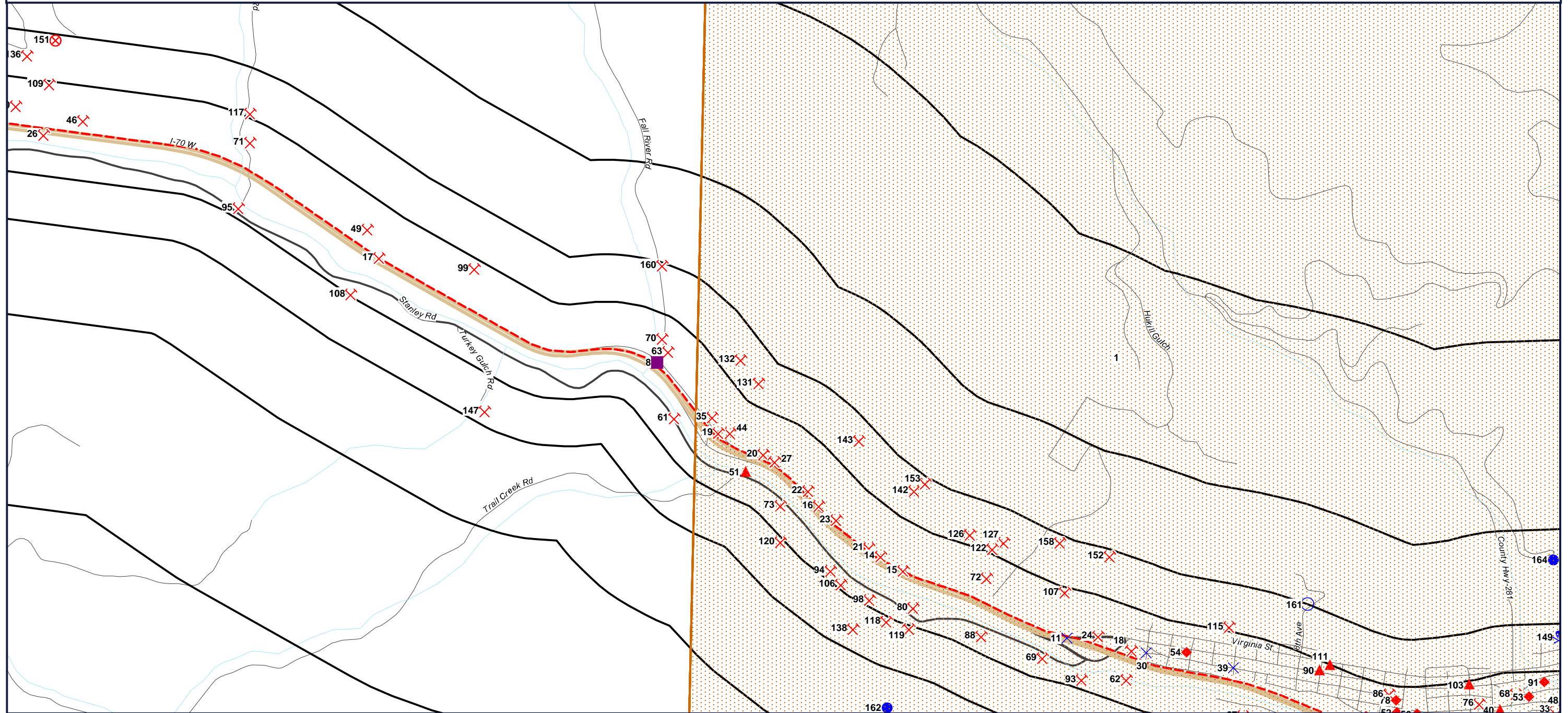


**Westbound I-70 PPSL
I-70 MM230 to MM243
Clear Creek County, Colorado**

- | | | | |
|----------------------|----------|----------|------|
| Target Property (TP) | LST | SMCRA | SEMS |
| RODS | ERNSCO | AST | |
| ICIS | SPILLS | MSHA | |
| EC | UST | HISTSWLF | |
| SF | CDPS | SWF | |
| FRSCO | HMIRSR08 | CDL | |
| SEMS | MRDS | CDL | |
| ECHOR08 | RCRAGR08 | SEMSARCH | |
| NPL | | | |

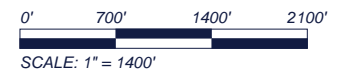


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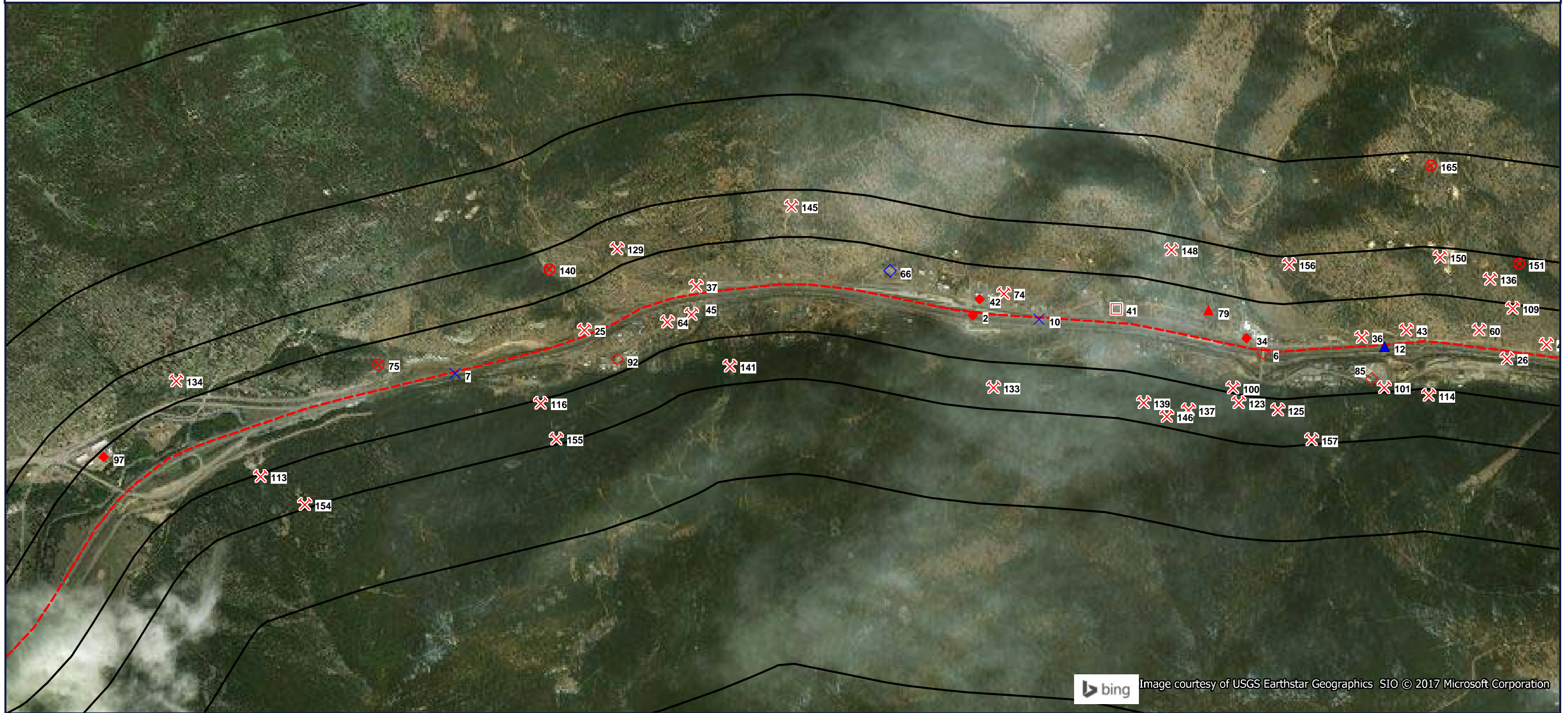


**Westbound I-70 PPSL
I-70 MM230 to MM243
Clear Creek County, Colorado**

- | | | | |
|----------------------|----------|----------|------|
| Target Property (TP) | LST | SMCRA | SEMS |
| RODS | ERNSCO | AST | |
| ICIS | SPILLS | MSHA | |
| EC | UST | HISTSWLF | |
| SF | CDPS | SWF | |
| FRSCO | HMIRSR08 | CDL | |
| SEMS | MRDS | CDL | |
| ECHOR08 | RCRAGR08 | SEMSARCH | |
| NPL | | | |

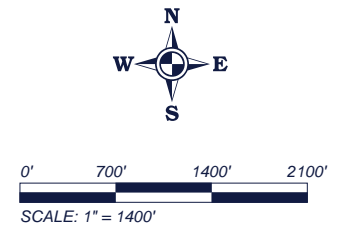


ORTHOPHOTO MAP

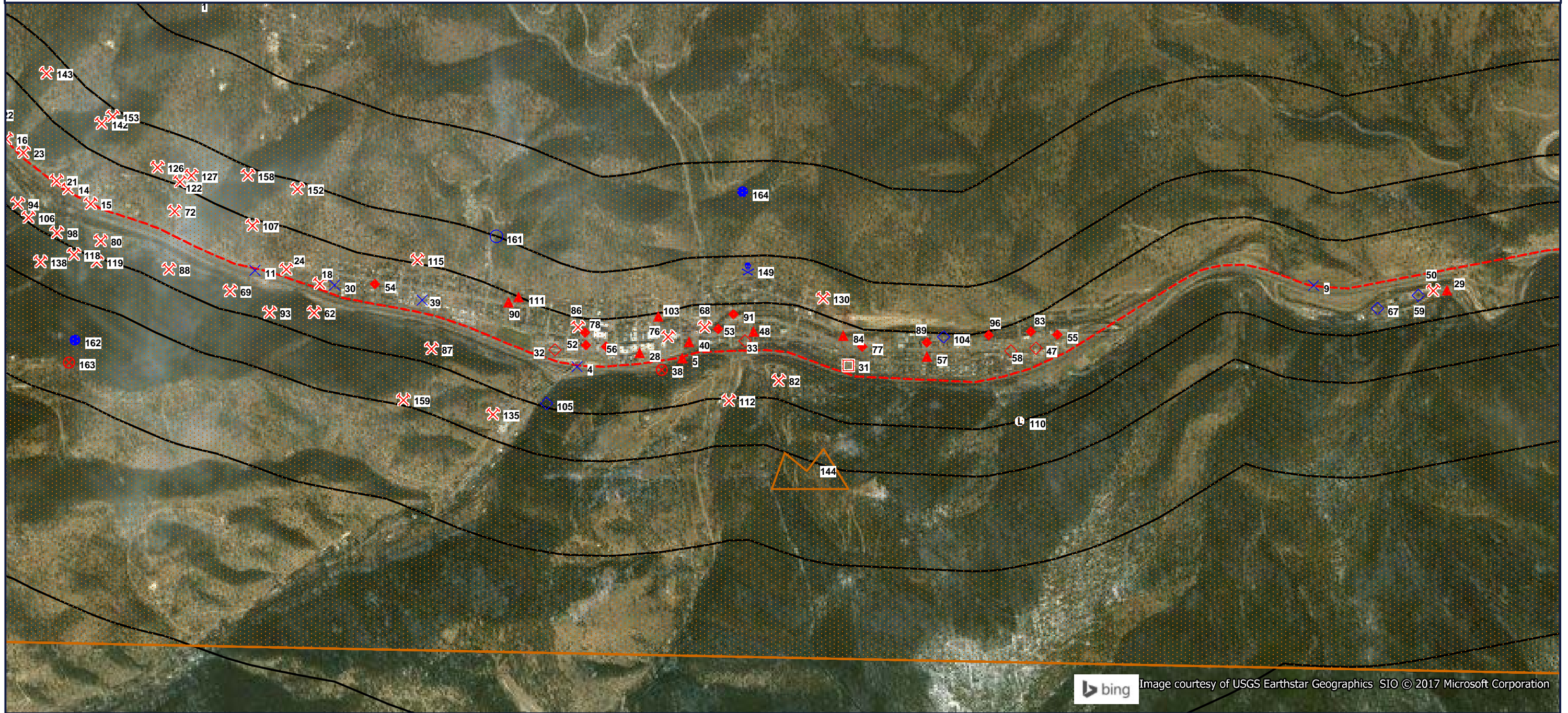


- | | | | |
|----------------------|----------|----------|------|
| Target Property (TP) | LST | SMCRA | SEMS |
| RODS | ERNSCO | AST | |
| ICIS | SPILLS | MSHA | |
| EC | UST | HISTSWLF | |
| SF | CDPS | SWF | |
| FRSCO | HMIRSR08 | CDL | |
| SEMS | MRDS | CDL | |
| ECHOR08 | RCRA08 | SEMSARCH | |
| NPL | | | |

**Quadrangle(s): Central City,
Idaho Springs, Empire,
Georgetown, Squaw Pass
Westbound I-70 PPSL
I-70 MM230 to MM243
Clear Creek County, Colorado**

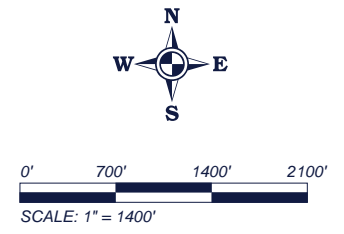


ORTHOPHOTO MAP

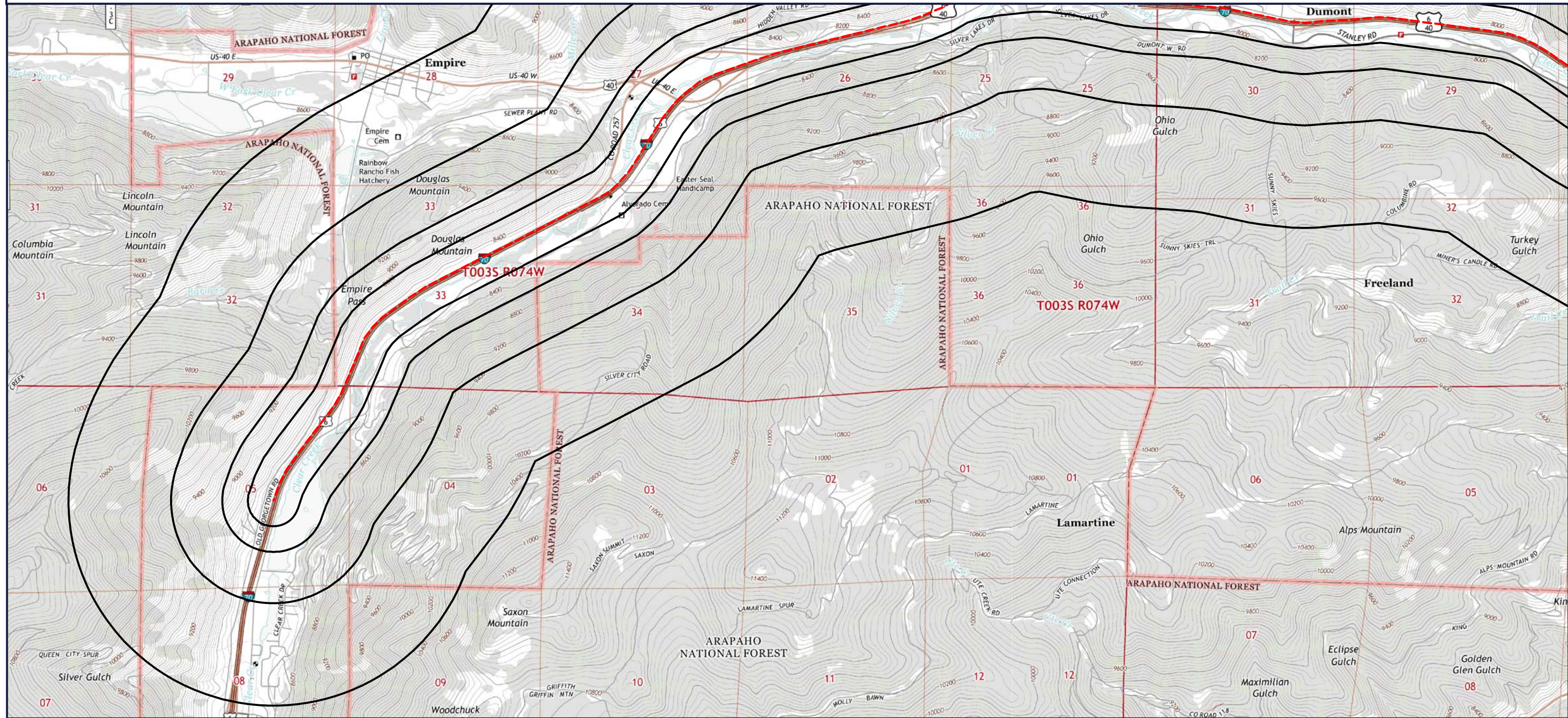


- | | | | |
|----------------------|----------|----------|------|
| Target Property (TP) | LST | SMCRA | SEMS |
| RODS | ERNSCO | AST | |
| ICIS | SPILLS | MSHA | |
| EC | UST | HISTSWLF | |
| SF | CDPS | SWF | |
| FRSCO | HMIRSR08 | CDL | |
| SEMS | MRDS | CDL | |
| ECHOR08 | RCRAGR08 | SEMSARCH | |
| NPL | | | |

**Quadrangle(s): Central City,
Idaho Springs, Empire,
Georgetown, Squaw Pass
Westbound I-70 PPSL
I-70 MM230 to MM243
Clear Creek County, Colorado**



TOPOGRAPHIC MAP

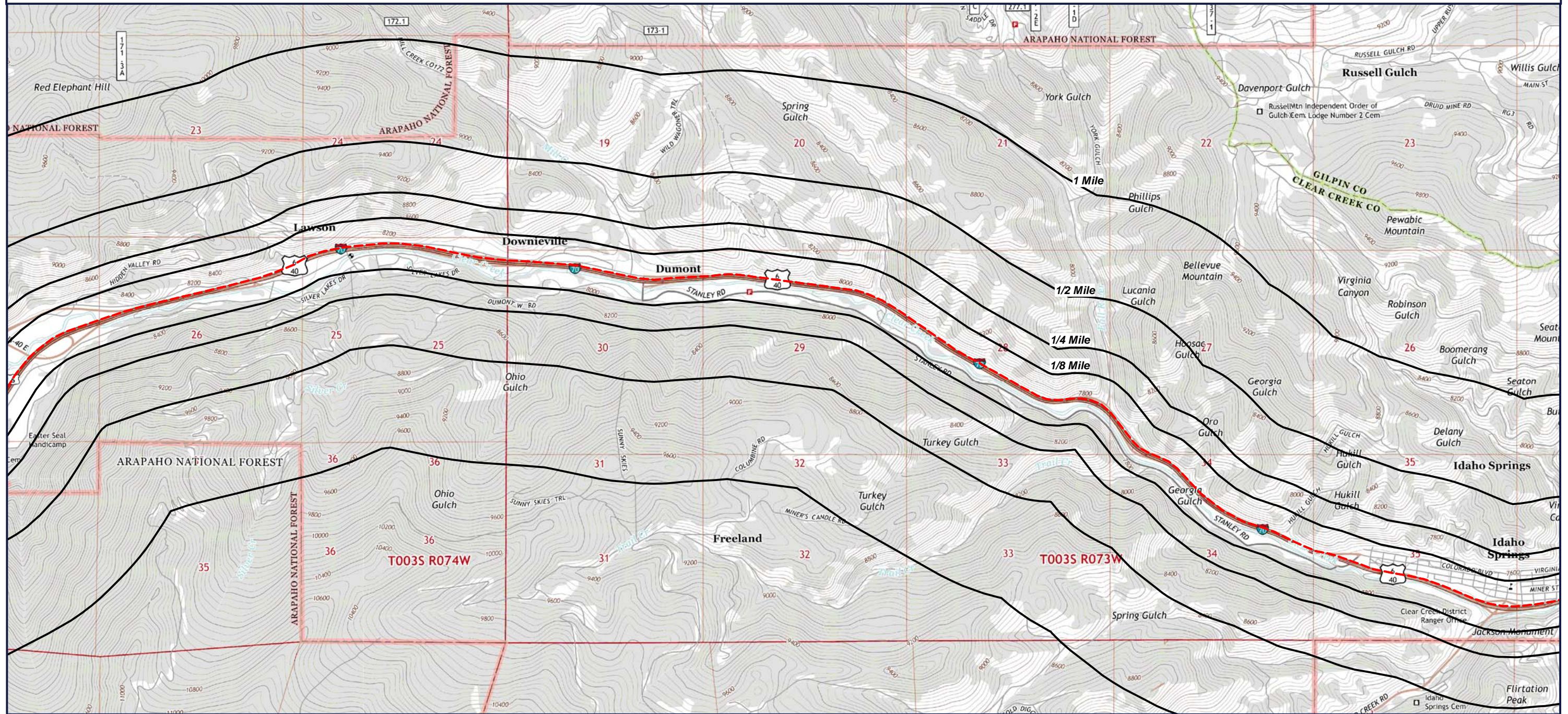


Target Property (TP)

Quadrangle(s): Central City,
Idaho Springs, Empire,
Georgetown, Squaw Pass
Source: USGS, 08/02/2013
Westbound I-70 PPSL
I-70 MM230 to MM243
Clear Creek County, Colorado

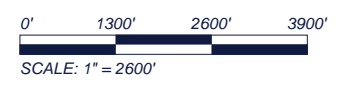


TOPOGRAPHIC MAP

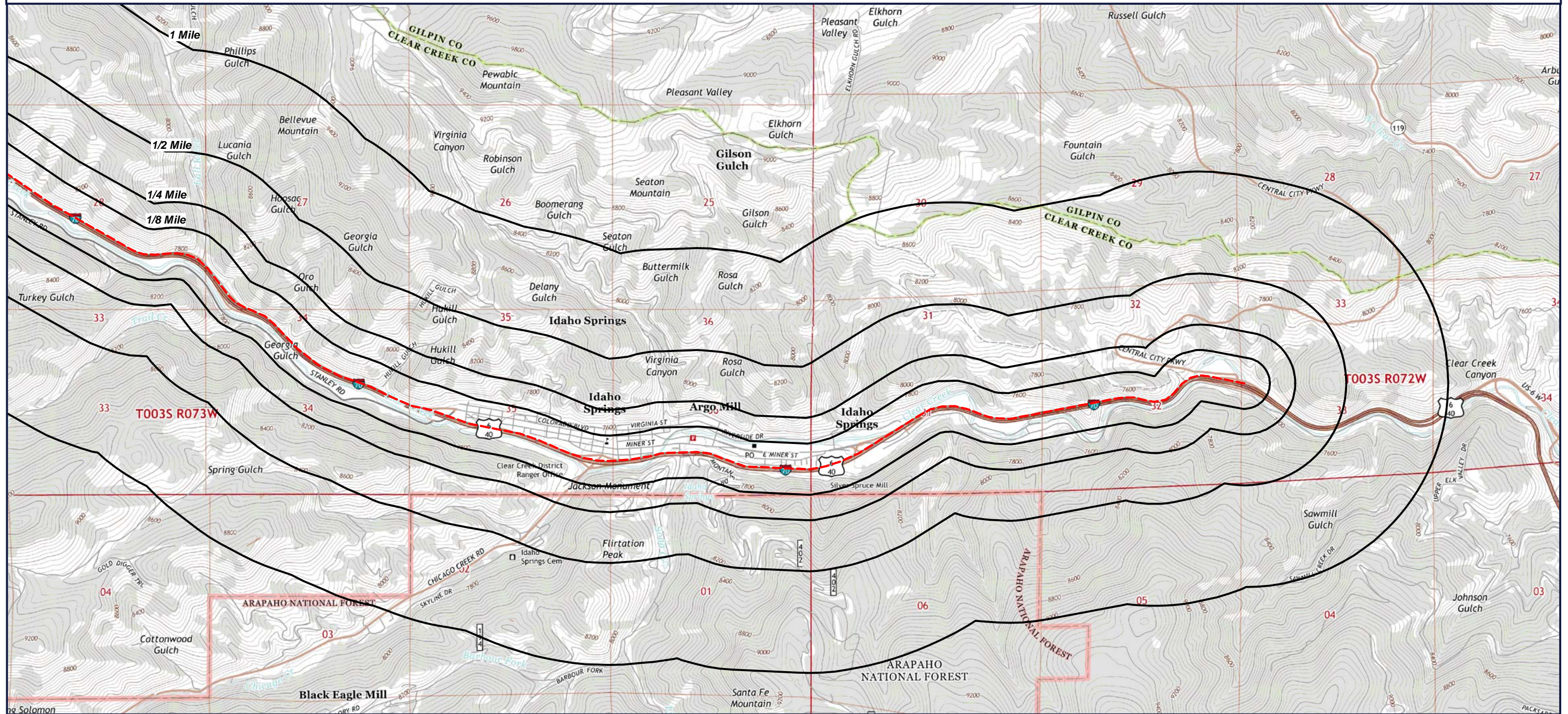


- - - Target Property (TP)

Quadrangle(s): Central City,
 Idaho Springs, Empire,
 Georgetown, Squaw Pass
 Source: USGS, 08/02/2013
 Westbound I-70 PPSL
 I-70 MM230 to MM243
 Clear Creek County, Colorado

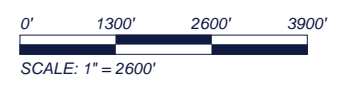


TOPOGRAPHIC MAP



Target Property (TP)

Quadrangle(s): Central City,
 Idaho Springs, Empire,
 Georgetown, Squaw Pass
 Source: USGS, 08/02/2013
 Westbound I-70 PPSL
 I-70 MM230 to MM243
 Clear Creek County, Colorado



Located Sites Summary

NOTE: Standard environmental records are displayed in **bold**.

Map ID#	Database Name	Site ID#	Distance From Site	Site Name	Address	PAGE #
1	RODS	COD980717557	0.001 mi. NE (5 ft.)	CENTRAL CITY, CLEAR CREEK	NEAR TOWN, IDAHO SPRINGS, CO	38
1	ICIS	110009270975	0.001 mi. NE (5 ft.)	CENTRAL CITY, CLEAR CREEK	NEAR TOWN, IDAHO SPRINGS, CO 80452	47
1	EC	COD980717557	0.001 mi. NE (5 ft.)	CENTRAL CITY, CLEAR CREEK	NEAR TOWN, IDAHO SPRINGS, CO 80452	48
1	SF	COD980717557	0.001 mi. NE (5 ft.)	CENTRAL CITY/CLEAR CREEK	NEAR TOWN, IDAHO SPGS,CENT.CY,BKHAWK, CO 80452	55
1	FRSCO	110009270975	0.001 mi. NE (5 ft.)	CENTRAL CITY, CLEAR CREEK	NEAR TOWN, IDAHO SPRINGS, CO 80452	57
1	SEMS	COD980717557	0.001 mi. NE (5 ft.)	CENTRAL CITY, CLEAR CREEK	NEAR TOWN, IDAHO SPRINGS, CO 80452	58
1	ECHOR08	110009270975	0.001 mi. NE (5 ft.)	CENTRAL CITY, CLEAR CREEK	NEAR TOWN, IDAHO SPRINGS, CO 80452	111
1	NPL	COD980717557	0.001 mi. NE (5 ft.)	CENTRAL CITY, CLEAR CREEK	NEAR TOWN, IDAHO SPRINGS, CO 80452	112
2	LST	13518LST	0.01 mi. SW (53 ft.)	DOWNIEVILLE	I-70 IN DOWNIEVILLE, DOWNIEVILLE, CO 80436	161
3	LST	10633LST	0.01 mi. SW (53 ft.)	CLEAR CREEK DISTRIBUTING	I-70 & EXIT 243 HIDDEN VALLEY, IDAHO SPRINGS, CO 80452	162
3	LST	13961LST	0.01 mi. SW (53 ft.)	HIDDEN VALLEY TEXACO	I-70 & EXIT 243 HIDDEN VALLEY EXIT, IDAHO SPRINGS, CO 80452	163
3	ERNSCO	775726	0.01 mi. SW (53 ft.)	INTERSTATE 70 AT MILE 243	IDAHO SPRINGS, CO	164
3	ERNSCO	808446	0.01 mi. SW (53 ft.)	INTERSTATE 70 MILEPOST 243	IDAHO SPRINGS, CO	165
3	FRSCO	110045478158	0.01 mi. SW (53 ft.)	IDAHO SPRINGS ROAD PROJECT	CENTRAL CITY PKWY & I-70, IDAHO SPRINGS, CO 80452	166
3	UST	10633	0.01 mi. SW (53 ft.)	CLEAR CREEK DISTRIBUTING	I-70 EXIT 243 HIDDEN VALLEY, IDAHO SPRINGS, CO 80452	167
3	AST	13961AST	0.01 mi. SW (53 ft.)	HIDDEN VALLEY TEXACO	I-70 & EXIT 243 HIDDEN VALLEY EXIT, IDAHO SPRINGS, CO 80452	168
3	ICISNPDES	COG073998INP DES	0.01 mi. SW (53 ft.)	IDAHO SPRINGS ROAD PROJECT	CENTRAL CITY PKWY & I-70, IDAHO SPRINGS, CO 80452	169
4	SPILLS	2007-0945	0.01 mi. W (53 ft.)		I-70 WB EXIT 240, IDAHO SPRINGS, CO	171
4	SPILLS	2011-0682	0.01 mi. W (53 ft.)		I-70 AND HWY 103, AT THE EXIT TO MT. EVANS, WHERE CLEAR CREEK ALSO INTERSECTS, CO	172
4	SPILLS	2002-1206	0.01 mi. W (53 ft.)		I-70 AND COLORADO HWY 103, IDAHO SPRINGS, CO	173
4	ERNSCO	1131030	0.01 mi. W (53 ft.)		MM-240 I-70, IDAHO SPRINGS, CO	174
4	ERNSCO	855375	0.01 mi. W (53 ft.)	EXIT 240 WESTBOUND ON I-70	IDAHO SPRINGS, CO	175
4	SPILLS	2015-0662	0.01 mi. W (53 ft.)		INTERSTATE 70, MM 240 WESTBOUND, IDAHO SPRINGS, CO	176
5	SPILLS	2007-0720	0.01 mi. SW (53 ft.)		PEDESTRIAN PATH UNDER I-70 AT 17TH AND MINER ST., BEHIND THE BUILDING., IDAHO SPRINGS, CO 80452	177

Located Sites Summary

6	UST	10644	0.01 mi. SW (53 ft.)	BLACKWELL OIL CO INC	I-70 & DUMONT EXIT, DUMONT, CO 80436	178
6	AST	10644AST	0.01 mi. SW (53 ft.)	BLACKWELL OIL CO INC	I-70 & DUMONT EXIT, DUMONT, CO 80436	179
6	MRDS	10239156	0.03 mi. SW (158 ft.)	KATIE S.	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	180
6	SPILLS	CO97-455	0.01 mi. SW (53 ft.)		DUMONT TRUCK STOP (I-70 & DUMONT), DUMONT, CO	181
7	SPILLS	2012-0313	0.01 mi. SW (53 ft.)		OFFRAMP OF EB I-70 EXIT 233 (LAWSON EXIT) ON RIGHT HAND SIDE, JUST BEFORE STOP, LAWSON, CO	182
7	ERNSCO	1097873	0.01 mi. SW (53 ft.)		I-70 MM 233, DUMONT, CO	183
7	SPILLS	2014-0637	0.01 mi. SW (53 ft.)		INTERSTATE 70, MM 233, DUMONT, CO	184
8	CDPS	COR03M044	0.01 mi. N (53 ft.)	CLEAR CREEK COUNTY 2014 PAVEMENT REPLACEMENT PROGRAM	FALL RIVER RD AT I 70 AND MEADOW VIEW DR, IDAHO SPRINGS, CO 80452	185
9	ERNSCO	775730	0.01 mi. W (53 ft.)	INTERSTATE 70 WEST BOUND AT MILE MARKER 242	IDAHO SPRINGS, CO	186
9	ERNSCO	916968	0.01 mi. W (53 ft.)	MILE MARKER 242 ON INTERSTATE 70	IDAHO SPRINGS, CO	187
9	ERNSCO	916971	0.01 mi. W (53 ft.)	INTERSTATE 70	MILE MARKER 242, IDAHO SPRINGS, CO	188
10	ERNSCO	792447	0.01 mi. SW (53 ft.)	I-70 / MILE POST 234	DUMONT, CO	189
11	MRDS	10238723	0.02 mi. N (106 ft.)	BOREALIS	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	190
11	ERNSCO	720068	0.01 mi. SW (53 ft.)	INTERSTATE 70 MILE MARKER 239	IDAHO SPRINGS, CO	191
12	HMIRSR08	I-2002010020	0.01 mi. SW (53 ft.)		I-70 WB MM 235, DUMONT, CO	192
13	MRDS	10263678	0.01 mi. W (53 ft.)	MINE DUMPS	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	193
14	MRDS	10239320	0.01 mi. N (53 ft.)	EULALIE TUN	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	194
15	MRDS	10263754	0.01 mi. NW (53 ft.)	SALISBURY	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	195
16	MRDS	10239280	0.01 mi. N (53 ft.)	MONTE CRISTO	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	197
17	MRDS	10239393	0.01 mi. NW (53 ft.)	CRESCENT CITY	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	198
18	MRDS	10167042	0.02 mi. N (106 ft.)	BIG FIVE TUNNEL	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	199
18	MRDS	10107819	0.02 mi. N (106 ft.)	BIG FIVE - BELMAN	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	200
19	MRDS	10166536	0.02 mi. N (106 ft.)	HOOSAC	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	201
20	MRDS	10239475	0.02 mi. N (106 ft.)	NEW BEDFORD	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	202

Located Sites Summary

21	MRDS	10239390	0.02 mi. N (106 ft.)	MAUDE MONROE	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	203
22	MRDS	10118376	0.02 mi. N (106 ft.)	COLUMBIA	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	205
23	MRDS	10190261	0.02 mi. N (106 ft.)	PENNSYLVANIA	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	206
24	MRDS	10239149	0.02 mi. N (106 ft.)	OLIVE	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	207
24	MRDS	10264012	0.03 mi. N (158 ft.)	ESSEX	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	208
25	MRDS	10166368	0.02 mi. NW (106 ft.)	TOM MOORE	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	209
26	MRDS	10166434	0.02 mi. SW (106 ft.)	HIAWATHA TUNNEL	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	210
27	MRDS	10117245	0.02 mi. NW (106 ft.)	MAB	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	211
28	SPILLS	2016-0050	0.03 mi. NW (158 ft.)		15 IDAHO ST., IDAHO SPRINGS, CO 80452	212
29	SPILLS	2005-399	0.06 mi. S (317 ft.)		IDAHO SPRINGS WASTEWATER TREATMENT PLANT, IDAHO SPRINGS, CO	213
29	SPILLS	2003-251	0.06 mi. S (317 ft.)		980 CLEAR CREEK COUNTY RD. 314- WASTEWATER PLANT, IDAHO SPRINGS, CO	214
29	SPILLS	CO99-188	0.06 mi. S (317 ft.)		IDAHO SPRINGS WASTE WATER TREATMENT PLANT, IDAHO SPRINGS, CO	215
29	SPILLS	CO92-159	0.06 mi. S (317 ft.)		IDAHO SPRINGS SEWAGE TRMT FAC-1/4MI ETOWN, IDAHO SPRINGS, CO	216
29	SPILLS	2012-0591	0.06 mi. S (317 ft.)		IDAHO SPRINGS WASTEWATER TREATMENT PLANT, 980 COUNTY RD. 314, IDAHO SPRINGS, CO 80452	217
29	SPILLS	2013-0405	0.03 mi. S (158 ft.)		CLEAR CREEK IN IDAHO SPRINGS, BY THE WASTEWATER TREATMENT PLANT INTAKE, IDAHO SPRINGS, CO	218
30	ERNSCO	1155752	0.03 mi. N (158 ft.)		15 IDAHO STREET, IDAHO SPRINGS, CO 80452	219
31	RCRAGR08	COR000234351	0.03 mi. N (158 ft.)	SAFEWAY STORE #390	2425 MINER ST, IDAHO SPRINGS, CO 80452	220
32	UST	8666	0.03 mi. N (158 ft.)	CLEAR CREEK SCHOOL TRANSPORTATION DIVISION	1125 IDAHO ST, IDAHO SPRINGS, CO 80452	222
33	UST	10636	0.03 mi. NW (158 ft.)	IDAHO SPRINGS LUMBER CO	1965 MINER ST, IDAHO SPRINGS, CO 80452	223
34	AST	18282AST	0.03 mi. NW (158 ft.)	ORPHAN TANK AT 291 CR 308	291 CR 308, DUMONT, CO 80436	224
34	MRDS	10141557	0.04 mi. NW (211 ft.)	EARL OF KENT	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	225
34	MRDS	10214393	0.04 mi. NW (211 ft.)	UNITED FREELAND	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	226
34	MRDS	10287826	0.04 mi. NW (211 ft.)	HELENSLEA	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	227
34	MRDS	10166632	0.04 mi. NW (211 ft.)	MARY C.	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	228
34	MRDS	10190481	0.04 mi. NW (211 ft.)	CAMP BIRD	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	229

Located Sites Summary

34	MRDS	10238766	0.04 mi. NW (211 ft.)	NEW EUROPE	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	230
34	MRDS	10117290	0.04 mi. NW (211 ft.)	MAY DAY	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	231
34	MRDS	10264081	0.04 mi. NW (211 ft.)	LADY BELL	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	232
34	MRDS	10214787	0.04 mi. NW (211 ft.)	EDGAR LEEPER	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	233
34	LST	18282LST	0.03 mi. NW (158 ft.)	ORPHAN TANK AT 291 CR 308	291 CR 308, IDAHO SPRINGS, CO 80452	234
35	MRDS	10264232	0.03 mi. NE (158 ft.)	MARTHA PARKS	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	235
36	MRDS	10190368	0.03 mi. NW (158 ft.)	PUZZLER, ALKIRE	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	236
37	MRDS	10142733	0.03 mi. NW (158 ft.)	PUMPKIN	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	237
38	SMCRA	CO001099	0.03 mi. SW (158 ft.)	CLEAR CREEK COUNTY	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	238
39	ERNSCO	836393	0.04 mi. NW (211 ft.)	CENTER STREET AT FIFTH AVENUE	IDAHO SPRINGS, CO	240
39	SPILLS	2007-0517	0.04 mi. NW (211 ft.)		CENTER ST & 5TH AVE, IDAHO SPRINGS, CO	241
40	SPILLS	2011-0453	0.04 mi. NW (211 ft.)		1711 MINER ST, AT THE WASTEWATER TREATMENT PLANT, IDAHO SPRINGS, CO 80452	242
41	RCRAGR08	COD980961742	0.04 mi. N (211 ft.)	PSCO-DUMONT SC	681 CR 308, DUMONT, CO 80436	243
42	UST	3846	0.04 mi. N (211 ft.)	DOWNIEVILLE FUEL STOP REXOCO #35	1039 CR 308 AND 1041-1041A CR 308, DOWNIEVILLE, CO 80436	245
42	LST	3846LST	0.04 mi. N (211 ft.)	DOWNIEVILLE FUEL STOP REXOCO #35	1039 CR 308 AND 1041-1041A CR 308, DOWNIEVILLE, CO 80436	246
43	MRDS	10239277	0.04 mi. NW (211 ft.)	SPECHT TUNNEL	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	247
43	MRDS	10108373	0.04 mi. NW (211 ft.)	CLEAR CREEK & GILPIN	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	248
43	MRDS	10117546	0.04 mi. NW (211 ft.)	CLEAR CREEK & GILPIN TUNNEL	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	250
44	MRDS	10263853	0.04 mi. N (211 ft.)	RISING SUN	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	252
45	MRDS	10239638	0.05 mi. S (264 ft.)	SAUMS	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	253
45	MRDS	10287393	0.05 mi. S (264 ft.)	PLATTS	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	254
45	MRDS	10288073	0.05 mi. S (264 ft.)	TEDDY BEAR	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	255
45	MRDS	10214401	0.04 mi. S (211 ft.)	RED ELEPHANT	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	256
45	MRDS	10287745	0.05 mi. S (264 ft.)	GOLD VALLEY	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	257
45	MRDS	10190331	0.05 mi. S (264 ft.)	ANAMOSA	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	258
46	MRDS	10264331	0.04 mi. N (211 ft.)	RUBY TUNNEL	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	259

Located Sites Summary

47	SPILLS	2011-0625	0.05 mi. NW (264 ft.)		2911 COLORADO BLVD., IDAHO SPRINGS, CO 80452	260
47	SPILLS	2011-0626	0.05 mi. NW (264 ft.)		2911 COLORADO BLVD, IDAHO SPRINGS, CO 80452	261
47	SPILLS	2013-0263	0.05 mi. NW (264 ft.)		2911 COLORADO BLVD, IDAHO SPRINGS, CO 80452	262
47	SPILLS	2007-1005	0.05 mi. NW (264 ft.)		2911 COLORADO BLVD., IDAHO SPRINGS, CO 80452	263
47	SPILLS	2013-0531	0.05 mi. NW (264 ft.)		2911 COLORADO BLVD., IDAHO SPRINGS, CO 80452	264
47	SPILLS	2016-0296	0.05 mi. NW (264 ft.)		2911 COLORADO BLVD, IDAHO SPRINGS, CO	265
47	UST	15075	0.05 mi. NW (264 ft.)	TWIN STAR ENERGY #528	2911 COLORADO BLVD, IDAHO SPRINGS, CO 80452	266
47	AST	15075AST	0.05 mi. NW (264 ft.)	TWIN STAR ENERGY #528	2911 COLORADO BLVD, IDAHO SPRINGS, CO 80452	267
47	SPILLS	2011-0627	0.05 mi. NW (264 ft.)		2911 COLORADO BLVD, IDAHO SPRINGS, CO 80452	268
48	SPILLS	2007-0763	0.05 mi. N (264 ft.)		2000 MINER ST., IDAHO SPRINGS, CO	269
49	MRDS	10239456	0.05 mi. N (264 ft.)	ELLA TUNNEL	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	270
50	MRDS	10166756	0.05 mi. S (264 ft.)	STRIP MINE	CLEAR CREEK COUNTY, EVERGREEN, CO 80439	271
51	SPILLS	2003-356	0.05 mi. SW (264 ft.)		STANLEY RD. & TRAIL CREEK RD.-VIOLA MINE CLAIM, IDAHO SPRINGS, CO 80452	272
52	LST	6517LST	0.06 mi. NW (317 ft.)	AMOCO #5329	1319 MINER ST, IDAHO SPRINGS, CO 80452	273
52	CLEANERS	019-0020CL	0.06 mi. N (317 ft.)	WARDROBE CLEANERS	1241 MINER ST, IDAHO SPRINGS, CO 80452	274
52	ERNSCO	816505	0.06 mi. N (317 ft.)	13TH AND MINOR STREETS	SHELL GAS STATION 115 13TH STREET, IDAHO SPRINGS, CO	275
52	ERNSCO	1000591	0.06 mi. NW (317 ft.)	COME AND GO STORE	1319 MINER STREET, IDAHO SPRINGS, CO	276
52	HMIRSR08	I-2012020050	0.06 mi. NW (317 ft.)		1319 MINER STREET, IDAHO SPRINGS, CO 80452	277
52	UST	2423	0.06 mi. N (317 ft.)	MINER STREET SHELL	115 13TH AVE, IDAHO SPRINGS, CO 80452	278
52	UST	6517	0.06 mi. NW (317 ft.)	AMOCO #5329	1319 MINER ST, IDAHO SPRINGS, CO 80452	279
52	AST	6517AST	0.06 mi. NW (317 ft.)	AMOCO #5329	1319 MINER ST, IDAHO SPRINGS, CO 80452	280
52	LST	2423LST	0.06 mi. N (317 ft.)	MINER STREET SHELL	115 13TH AVE, IDAHO SPRINGS, CO 80452	281
53	UST	18152	0.06 mi. N (317 ft.)	ORPHAN TANK AT MINER STREET	1840 MINER ST, IDAHO SPRINGS, CO 80452	282
53	LST	18152LST	0.06 mi. N (317 ft.)	ORPHAN TANK AT MINER STREET	1840 MINER ST, IDAHO SPRINGS, CO 80452	283
54	UST	15563	0.06 mi. N (317 ft.)	SILVER CITY AUTOMOTIVE	243 COLORADO BLVD, IDAHO SPRINGS, CO 80452	284
54	LST	15563LST	0.06 mi. N (317 ft.)	SILVER CITY AUTOMOTIVE	243 COLORADO BLVD, IDAHO SPRINGS, CO 80452	285

Located Sites Summary

55	SPILLS	2007-0080	0.08 mi. NW (422 ft.)		CLEAR CREEK NEAR I-70/MM 241, CO	286
55	RCRAGR08	COD983773581	0.06 mi. NW (317 ft.)	COLORADO DEPT OF TRANS - IDAHO SPRINGS	1-70 MP 241.05, IDAHO SPRINGS, CO 80452	287
55	UST	2923	0.06 mi. NW (317 ft.)	CSP - IDAHO SPRINGS #49612	3000 COLORADO BLVD, IDAHO SPRINGS, CO 80452	289
55	UST	7418	0.06 mi. NW (317 ft.)	CDOT IDAHO SPRINGS	HWY 70 MP 241.05, IDAHO SPRINGS, CO 80452	290
55	AST	1786AST	0.06 mi. NW (317 ft.)	CDOT HIDDEN VALLEY	I-70 MP 243.20, IDAHO SPRINGS, CO 80452	291
55	AST	12340AST	0.06 mi. NW (317 ft.)	CDOT IDAHO SPRINGS CSP	3000 COLORADO BLVD, IDAHO SPRINGS, CO 80452	292
55	LST	7418LST	0.06 mi. NW (317 ft.)	CDOT IDAHO SPRINGS	2931 COLORADO BLVD N SIDE HWY 70A MP 241.05, IDAHO SPRINGS, CO 80452	293
56	SPILLS	2006-1017	0.08 mi. N (422 ft.)		1300 MINOR STREET, IDAHO SPRINGS, CO	294
56	UST	18798	0.06 mi. NW (317 ft.)	KUM & GO #975	1319 MINER ST, IDAHO SPRINGS, CO 80452	295
56	LST	18798LST	0.06 mi. NW (317 ft.)	KUM & GO #975	1359 MINER ST, IDAHO SPRINGS, CO 80452	296
57	SPILLS	2017-0030	0.06 mi. N (317 ft.)		2631 COLORADO BLVD, IDAHO SPRINGS, CO 80452	297
58	AST	17472AST	0.08 mi. NW (422 ft.)	BLUE RIBBON TIRE	MINER & COLORADO BLVD, IDAHO SPRINGS, CO 80452	298
58	UST	2287	0.06 mi. NW (317 ft.)	IDAHO SPRINGS SUNMART #501	2833 COLORADO BLVD, IDAHO SPRINGS, CO 80452	299
59	AST	16844AST	0.06 mi. S (317 ft.)	CAMAS	1039 IDAHO SPRINGS E RD, IDAHO SPRINGS, CO 80452	300
60	MRDS	10214550	0.06 mi. NW (317 ft.)	CALIFORNIA TUNNEL	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	301
61	MRDS	10264313	0.06 mi. W (317 ft.)	ANOKA COUNTY	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	302
62	MRDS	10287099	0.06 mi. SW (317 ft.)	MC MICKLE	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	303
63	MRDS	10214210	0.06 mi. N (317 ft.)	LAWRENCE L.	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	304
64	MRDS	10190241	0.06 mi. S (317 ft.)	CLEVELAND- SILVERWING	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	306
65	UST	19749	0.07 mi. SW (370 ft.)	MOUNTAIN GATEWAY CENTER	2195 E IDAHO SPRINGS RD, IDAHO SPRINGS, CO 80452	307
65	AST	18985AST	0.07 mi. SW (370 ft.)	POLAR GAS	2195 E IDAHO SPRINGS RD, IDAHO SPRINGS, CO 80452	308
65	SPILLS	2015-0122	0.07 mi. SW (370 ft.)		2195 E. IDAHO SPRINGS RD, NOT REALLY IN IDAHO SPRINGS, CO	309
66	AST	16767AST	0.07 mi. N (370 ft.)	AMERIGAS	1221 CR 3088, DOWNIEVILLE, CO 80436	310
67	AST	16408AST	0.07 mi. S (370 ft.)	FERRELLGAS	1 FERRELL WAY, IDAHO SPRINGS, CO 80452	311
68	MRDS	10263971	0.07 mi. N (370 ft.)	F & C	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	312
68	MRDS	10117208	0.07 mi. N (370 ft.)	THEOBOLD PLACER	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	313

Located Sites Summary

68	MRDS	10214338	0.07 mi. N (370 ft.)	EUROPEAN	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	314
68	MRDS	10166620	0.07 mi. N (370 ft.)	PARK GROUP	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	315
68	MRDS	10166905	0.07 mi. N (370 ft.)	INGRAM	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	316
68	MRDS	10190689	0.07 mi. N (370 ft.)	ORPHAN	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	317
68	MRDS	10166668	0.07 mi. N (370 ft.)	JESSICA	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	318
68	MRDS	10190661	0.07 mi. N (370 ft.)	CADDO	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	319
68	MRDS	10287152	0.07 mi. N (370 ft.)	LUCKY GOLD	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	320
68	MRDS	10166957	0.07 mi. N (370 ft.)	PARKER PLACER	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	321
68	MRDS	10263634	0.07 mi. N (370 ft.)	GOLD MEDAL	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	322
68	MRDS	10142402	0.07 mi. N (370 ft.)	NORTH AMERICA	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	323
68	MRDS	10141267	0.07 mi. N (370 ft.)	BECKY SHARP	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	324
68	MRDS	10214512	0.07 mi. N (370 ft.)	IRON KING	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	325
68	MRDS	10264189	0.07 mi. N (370 ft.)	MENDIC	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	326
68	MRDS	10117343	0.07 mi. N (370 ft.)	DIXIE MILL	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	327
68	MRDS	10190377	0.07 mi. N (370 ft.)	DANIEL PETERS	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	328
68	MRDS	10263909	0.07 mi. N (370 ft.)	CARDWELL	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	329
68	MRDS	10264052	0.07 mi. N (370 ft.)	CODDING MILL	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	330
68	MRDS	10287388	0.07 mi. N (370 ft.)	FLOYD HILL	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	331
68	MRDS	10167076	0.07 mi. N (370 ft.)	NEGLECTED	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	332
68	MRDS	10214599	0.07 mi. N (370 ft.)	OCEAN QUEEN	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	333
68	MRDS	10287097	0.07 mi. N (370 ft.)	GRASS VALLEY	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	334
68	MRDS	10190448	0.07 mi. N (370 ft.)	YELLOW METALS & FORTUNE	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	335
68	MRDS	10190245	0.07 mi. N (370 ft.)	SILVER JIM	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	336
68	MRDS	10117158	0.07 mi. N (370 ft.)	WHITEWATER	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	337
68	MRDS	10142193	0.07 mi. N (370 ft.)	KENNEDY GROUP	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	338
68	MRDS	10214381	0.07 mi. N (370 ft.)	GILLESPIE GROUP	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	339

Located Sites Summary

68	MRDS	10141370	0.07 mi. N (370 ft.)	COLLOM	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	340
68	MRDS	10287921	0.07 mi. N (370 ft.)	TRAIL CREEK MILL	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	341
68	MRDS	10190498	0.07 mi. N (370 ft.)	POTOSI	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	342
68	MRDS	10214525	0.07 mi. N (370 ft.)	GEYSER	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	343
68	MRDS	10263672	0.07 mi. N (370 ft.)	LITTLE UTE	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	344
68	MRDS	10117494	0.07 mi. N (370 ft.)	NEW ERA PLACER	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	345
68	MRDS	10264197	0.07 mi. N (370 ft.)	ROOTE RANCH	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	346
68	MRDS	10117229	0.07 mi. N (370 ft.)	LONE STAR	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	347
68	MRDS	10239701	0.07 mi. N (370 ft.)	HIDDEN DIAMOND	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	348
68	MRDS	10214352	0.07 mi. N (370 ft.)	LA CLIDE	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	349
68	MRDS	10287673	0.07 mi. N (370 ft.)	ROYAL ANN	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	350
68	MRDS	10141379	0.07 mi. N (370 ft.)	BLACK SQUIRREL	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	351
68	MRDS	10263696	0.07 mi. N (370 ft.)	EAGEN	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	352
68	MRDS	10287591	0.07 mi. N (370 ft.)	RENSHAW-MILLER	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	353
68	MRDS	10117354	0.07 mi. N (370 ft.)	J.A.M.	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	354
68	MRDS	10117508	0.07 mi. N (370 ft.)	CORBETT	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	355
68	MRDS	10214211	0.07 mi. N (370 ft.)	REFUGEE GROUP	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	356
68	MRDS	10287426	0.07 mi. N (370 ft.)	GILT EDGE	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	357
68	MRDS	10190210	0.07 mi. N (370 ft.)	LAKE WEST	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	358
68	MRDS	10263745	0.07 mi. N (370 ft.)	RENSHAW-MOSHER	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	359
68	MRDS	10264288	0.07 mi. N (370 ft.)	SILVER CYCLE	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	360
68	MRDS	10117384	0.07 mi. N (370 ft.)	M.E.	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	361
68	MRDS	10166520	0.07 mi. N (370 ft.)	ONEIDA	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	362
68	MRDS	10214681	0.07 mi. N (370 ft.)	TOLLAND COUNTY	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	363
68	MRDS	10287345	0.07 mi. N (370 ft.)	NEW HOPE	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	364
68	MRDS	10264050	0.07 mi. N (370 ft.)	MADISON	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	365

Located Sites Summary

68	MRDS	10239659	0.07 mi. N (370 ft.)	KEAST TUNNEL	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	366
68	MRDS	10167121	0.07 mi. N (370 ft.)	RED LION	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	367
68	MRDS	10117444	0.07 mi. N (370 ft.)	HIGHLANDER	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	368
68	MRDS	10166395	0.07 mi. N (370 ft.)	MARGUERITE B	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	369
68	MRDS	10287356	0.07 mi. N (370 ft.)	ILLINOIS BAR	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	370
68	MRDS	10287552	0.07 mi. N (370 ft.)	LITTLE BOSS	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	371
68	MRDS	10117604	0.07 mi. N (370 ft.)	EXTENSION NO.2	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	372
68	MRDS	10141739	0.07 mi. N (370 ft.)	BOAT	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	373
68	MRDS	10190026	0.07 mi. N (370 ft.)	SILVER GEM	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	374
68	MRDS	10288242	0.07 mi. N (370 ft.)	TRISHA LEE TUNNEL	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	375
68	MRDS	10287249	0.07 mi. N (370 ft.)	BRAUN	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	376
68	MRDS	10214838	0.07 mi. N (370 ft.)	JACKSON MILL	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	377
68	MRDS	10166467	0.07 mi. N (370 ft.)	TUNNEL LODE #3	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	378
68	MRDS	10190166	0.07 mi. N (370 ft.)	METALS TUNNEL	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	379
68	MRDS	10263990	0.07 mi. N (370 ft.)	RAYMOND P HEON	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	380
68	MRDS	10190469	0.07 mi. N (370 ft.)	MARRY	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	381
68	MRDS	10263738	0.07 mi. N (370 ft.)	FLORENCE	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	382
68	MRDS	10264024	0.07 mi. N (370 ft.)	SILVER SPRUCE	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	383
68	MRDS	10166969	0.07 mi. N (370 ft.)	K.K.K.	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	384
68	MRDS	10117346	0.07 mi. N (370 ft.)	DESIGN	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	385
68	MRDS	10239229	0.07 mi. N (370 ft.)	MATTIE	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	386
68	MRDS	10239117	0.07 mi. N (370 ft.)	LALLA	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	387
68	MRDS	10142358	0.07 mi. N (370 ft.)	WYOMING VALLEY TUNNEL	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	388
68	MRDS	10214730	0.07 mi. N (370 ft.)	TAMASOA	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	389
68	MRDS	10142227	0.07 mi. N (370 ft.)	LILY	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	390
68	MRDS	10239844	0.07 mi. N (370 ft.)	DIERKS	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	391

Located Sites Summary

68	MRDS	10239185	0.07 mi. N (370 ft.)	JOSEPH A.HORN	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	392
68	MRDS	10190209	0.07 mi. N (370 ft.)	CLEAR CREEK GOLD	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	393
68	MRDS	10117468	0.07 mi. N (370 ft.)	GOLD GLEN	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	394
68	MRDS	10263709	0.07 mi. N (370 ft.)	TROPIC	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	395
68	MRDS	10263750	0.07 mi. N (370 ft.)	SWEET HOME	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	396
68	MRDS	10239558	0.07 mi. N (370 ft.)	LENA	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	397
68	MRDS	10142778	0.07 mi. N (370 ft.)	MARY D. RAYMOND	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	398
68	MRDS	10142649	0.07 mi. N (370 ft.)	GEM CONSOLIDATED	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	399
68	MRDS	10214661	0.07 mi. N (370 ft.)	HONEST JOHN	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	400
68	MRDS	10287712	0.07 mi. N (370 ft.)	BELGIAN HARE	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	401
68	MRDS	10190755	0.07 mi. N (370 ft.)	GOLD PIT	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	402
68	MRDS	10238545	0.07 mi. N (370 ft.)	B&I NO.1	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	403
68	MRDS	10117183	0.07 mi. N (370 ft.)	NEPTUNE	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	404
68	MRDS	10214798	0.07 mi. N (370 ft.)	KING CYRUS	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	405
68	MRDS	10214267	0.07 mi. N (370 ft.)	WHALE	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	406
68	MRDS	10190621	0.07 mi. N (370 ft.)	SCHLEY	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	407
68	MRDS	10117643	0.07 mi. N (370 ft.)	QUEEN ELIZABETH	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	408
68	MRDS	10214699	0.07 mi. N (370 ft.)	BLUE BIRD	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	409
68	MRDS	10264310	0.07 mi. N (370 ft.)	RAINBOW	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	410
68	MRDS	10190080	0.07 mi. N (370 ft.)	IDAHO BRIDE	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	411
68	MRDS	10214313	0.07 mi. N (370 ft.)	GOLDEN RULE	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	412
68	MRDS	10166977	0.07 mi. N (370 ft.)	FRENCH FLAG	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	413
68	MRDS	10214883	0.07 mi. N (370 ft.)	HORN LODGE	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	414
68	MRDS	10239123	0.07 mi. N (370 ft.)	NEW CENTURY	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	415
68	MRDS	10166369	0.07 mi. N (370 ft.)	KOBOLD	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	416
68	MRDS	10239305	0.07 mi. N (370 ft.)	STEPHENS PLACER	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	417

Located Sites Summary

68	MRDS	10263982	0.07 mi. N (370 ft.)	WILBUR	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	418
68	MRDS	10141532	0.07 mi. N (370 ft.)	COOPER	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	419
68	MRDS	10166515	0.07 mi. N (370 ft.)	YUKON GIRL	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	420
68	MRDS	10238941	0.07 mi. N (370 ft.)	CASH	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	421
68	MRDS	10167032	0.07 mi. N (370 ft.)	TORPEDO	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	422
68	MRDS	10264333	0.07 mi. N (370 ft.)	BLIND	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	423
69	MRDS	10311037	0.07 mi. S (370 ft.)	BLACK BEAR MINE	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	424
70	MRDS	10287141	0.07 mi. N (370 ft.)	DOVER	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	425
71	MRDS	10166516	0.07 mi. N (370 ft.)	MACKAY TUNNEL	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	426
72	MRDS	10190542	0.07 mi. N (370 ft.)	CROCKET	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	427
73	MRDS	10165765	0.07 mi. SW (370 ft.)	ALMA-LINCOLN MINE	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	428
74	MRDS	10190114	0.07 mi. NW (370 ft.)	FOUR-C TUNNEL	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	431
75	SMCRA	CO010020	0.07 mi. NW (370 ft.)	RED ELEPHANT PROJECT	CLEAR CREEK COUNTY, DUMONT, CO 80436	432
76	MSHA	0504917	0.07 mi. NW (370 ft.)	S P CHASE PARTNER NEWCOMB	1630 MINER STREET #248, IDAHO SPRINGS, CO 80452	434
77	UST	5418	0.08 mi. N (422 ft.)	FORMER SERVICE STATION	2410 COLORADO BLVD, IDAHO SPRINGS, CO 80452	436
77	AST	13123AST	0.08 mi. N (422 ft.)	BOLO LIMITED LIABILITY	2410 COLORADO BLVD, IDAHO SPRINGS, CO 80452	437
77	LST	5418LST	0.08 mi. N (422 ft.)	FORMER SERVICE STATION	2410 COLORADO BLVD, IDAHO SPRINGS, CO 80452	438
78	UST	10641	0.09 mi. N (475 ft.)	BLACKWELL OIL CO	1246 MINER ST, IDAHO SPRINGS, CO 80452	439
78	LST	10641LST	0.09 mi. N (475 ft.)	BLACKWELL OIL CO	1246 MINER ST, IDAHO SPRINGS, CO 80452	440
79	SPILLS	2012-0785	0.08 mi. N (422 ft.)		25 DUMONT LANE, DUMONT, CO 80452	441
80	MRDS	10263669	0.08 mi. SW (422 ft.)	STANLEY MINE	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	442
81	MRDS	10142410	0.08 mi. NW (422 ft.)	ST.GEORGE	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	444
82	MSHA	0503506	0.08 mi. SW (422 ft.)	MENDOTA MINE	25 FREELAND PLACE P O BOX N, IDAHO SPRINGS, CO 80452	445
83	AST	17890AST	0.09 mi. NW (475 ft.)	SPRING STATION LLC	2900 COLORADO BLVD, IDAHO SPRINGS, CO 80452	446
83	LST	17890LST	0.09 mi. NW (475 ft.)	SPRING STATION LLC	2900 COLORADO BLVD, IDAHO SPRINGS, CO 80452	447
84	SPILLS	2016-0032	0.09 mi. N (475 ft.)		2384 COLORADO BLVD, IDAHO SPRINGS, CO 80452	448

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85	UST	8661	0.09 mi. S (475 ft.)	CLEAR CREEK COUNTY ROAD & BRIDGE	3549 CLEAR CREEK CR 312, DUMONT, CO 80436	449
86	MRDS	10263806	0.11 mi. N (581 ft.)	ANNA B.	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	450
87	MRDS	10142620	0.09 mi. SW (475 ft.)	WARD	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	451
88	MRDS	10264085	0.09 mi. SW (475 ft.)	MAYFLOWER	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	452
88	MRDS	10016000	0.09 mi. SW (475 ft.)	MAYFLOWER	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	453
89	UST	946	0.1 mi. N (528 ft.)	WESTERN CONVENIENCE #120	2630 COLORADO BLVD, IDAHO SPRINGS, CO 80452	457
89	ALTFUELS	33442	0.1 mi. N (528 ft.)	WESTERN CONVENIENCE STORE	2630 COLORADO BLVD, IDAHO SPRINGS, CO 80452	458
89	LST	946LST	0.1 mi. N (528 ft.)	WESTERN CONVENIENCE #120	2630 COLORADO BLVD, IDAHO SPRINGS, CO 80452	459
90	SPILLS	2008-0076	0.1 mi. N (528 ft.)		9TH AVE. & COLORADO BLVD., IDAHO SPRINGS, CO	460
91	SPILLS	CO96-458	0.1 mi. N (528 ft.)		1856 COLORADO BLVD, IDAHO SPRINGS, CO 80452	461
91	UST	3445	0.1 mi. N (528 ft.)	GET GASSED	1856 COLORADO BLVD, IDAHO SPRINGS, CO 80452	462
91	AST	13758AST	0.1 mi. N (528 ft.)	GET GASED	1856 COLORADO BLVD, IDAHO SPRINGS, CO 80452	463
91	LST	3445LST	0.1 mi. N (528 ft.)	GET GASSED	1856 COLORADO BLVD, IDAHO SPRINGS, CO 80452	464
92	UST	16216	0.1 mi. S (528 ft.)	LAWSON TRAILER COURT	2038 CR 308, IDAHO SPRINGS, CO 80452	465
93	MRDS	10239329	0.1 mi. SW (528 ft.)	JUMBO TUNNEL	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	466
94	MRDS	10214910	0.1 mi. SW (528 ft.)	DONNA JUANITA	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	467
95	MRDS	10264237	0.1 mi. SW (528 ft.)	SILVER KING CROSSCUT	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	469
96	LST	10789LST	0.11 mi. NW (581 ft.)	SCORPION SHELL	2808 COLORADO BLVD, IDAHO SPRINGS, CO 80452	470
96	SWF	1188WTR	0.11 mi. NW (581 ft.)	SCORPION TEXACO INC	2808 COLORADO BOUL, IDAHO SPRINGS, CO 80452	471
96	UST	10638	0.12 mi. NW (634 ft.)	BLACKWELL OIL CO	2806 COLORADO BLVD, IDAHO SPRINGS, CO 80452	472
96	UST	10789	0.11 mi. NW (581 ft.)	SCORPION SHELL	2808 COLORADO BLVD, IDAHO SPRINGS, CO 80452	473
96	UST	14756	0.12 mi. NW (634 ft.)	TALL COUNTRY IDAHO SPRINGS	2806 COLORADO BLVD, IDAHO SPRINGS, CO 80452	474
96	AST	10789AST	0.11 mi. NW (581 ft.)	SCORPION SHELL	2808 COLORADO BLVD, IDAHO SPRINGS, CO 80452	475
96	LST	10638LST	0.12 mi. NW (634 ft.)	BLACKWELL OIL CO	2806 COLORADO BLVD, IDAHO SPRINGS, CO 80452	476
97	SWF	1588WTR	0.11 mi. NW (581 ft.)	CDOT - EMPIRE JCT. MAINTENANCE	14764 HIGHWAY 40, EMPIRE, CO 80438	477
97	UST	7415	0.11 mi. NW (581 ft.)	CDOT EMPIRE	HWY 40 MP 257.5, EMPIRE, CO 80438	478

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97	LST	7415LST	0.11 mi. NW (581 ft.)	CDOT EMPIRE	MP 257.55 HWY 40, EMPIRE, CO 80438	479
98	MRDS	10117836	0.11 mi. SW (581 ft.)	LITTLE HARRY	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	480
99	MRDS	10018278	0.11 mi. N (581 ft.)	UNKNOWN	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	481
100	MRDS	10264294	0.11 mi. S (581 ft.)	ALKIRE TUNNEL	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	482
101	MRDS	10264014	0.11 mi. S (581 ft.)	DUMONT PIT	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	483
102	SPILLS	2016-0089	0.12 mi. N (634 ft.)		CLEAR CREEK NEAR 2189 IDAHO SPRINGS RD EAST, IDAHO SPRINGS 08452, IDAHO SPRINGS, CO 08452	484
102	SPILLS	2010-0441	0.12 mi. N (634 ft.)		1 MILE UPSTREAM OF THE WASTEWATER TREATMENT PLANT, IDAHO SPRINGS, CO	485
103	SPILLS	2016-0379	0.12 mi. NW (634 ft.)		16TH AVE & COLORADO BLVD, IDAHO SPRINGS, CO	486
103	SPILLS	2008-0170	0.12 mi. NW (634 ft.)		COLORADO BLVD & 16TH AVE, IDAHO SPRINGS, CO 80452	487
104	AST	16931AST	0.12 mi. N (634 ft.)	YY RENTAL	2712 COLORADO BLVD, IDAHO SPRINGS, CO 80452	488
105	AST	12078AST	0.12 mi. SW (634 ft.)	ARAPAHO NATIONAL FOREST	I-70 E FRONTAGE RD, IDAHO SPRINGS, CO 80452	489
106	MRDS	10142231	0.12 mi. SW (634 ft.)	GLADSTONE TUNNEL	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	490
107	MRDS	10142726	0.12 mi. N (634 ft.)	HYLAND	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	491
108	MRDS	10141492	0.12 mi. SW (634 ft.)	FAIRVIEW	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	492
108	MRDS	10117281	0.12 mi. SW (634 ft.)	FAIRFIELD TUNNEL	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	493
109	MRDS	10167060	0.12 mi. N (634 ft.)	SOUND SHAFT	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	494
110	HISTSWLF	00070-0001096	0.13 mi. S (686 ft.)	SILVER SPRUCE MILL	UNKNOWN, CITY NOT REPORTED, CO 80439	495
111	SPILLS	2006-620	0.13 mi. N (686 ft.)		920 COLORADO BLVD, IDAHO SPRINGS, CO	496
111	CDL	448385837	0.13 mi. N (686 ft.)		920 COLORADO BOULEVARD, IDAHO SPRINGS, CO	497
112	MRDS	10264133	0.13 mi. S (686 ft.)	IDAHO SPRINGS	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	498
113	MRDS	10117861	0.13 mi. S (686 ft.)	BELLEVUE- ROCHESTER	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	499
114	MRDS	10214559	0.14 mi. S (739 ft.)	FREELAND TUNNEL	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	501
115	MRDS	10018280	0.14 mi. N (739 ft.)	UNKNOWN	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	502
116	MRDS	10214439	0.14 mi. S (739 ft.)	THIRD BELLEVUE	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	503
117	MRDS	10288136	0.14 mi. N (739 ft.)	TORREY 2 TUNNEL	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	504
118	MRDS	10287538	0.14 mi. SW (739 ft.)	PRIDE OF THE WEST	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	505

Located Sites Summary

119	MRDS	10214630	0.14 mi. SW (739 ft.)	COLUMBINE	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	506
120	MRDS	10214610	0.15 mi. SW (792 ft.)	LINCOLN	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	507
120	MRDS	10239254	0.14 mi. SW (739 ft.)	JOSEPHINE SHAFT & TUNNEL	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	508
121	MRDS	10017203	0.15 mi. SW (792 ft.)	GEORGETOWN	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	509
121	MRDS	10264291	0.15 mi. SW (792 ft.)	GEORGETOWN	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	510
122	MRDS	10117219	0.15 mi. N (792 ft.)	HUKILL	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	511
123	MRDS	10190519	0.15 mi. SW (792 ft.)	PUZZLER	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	512
123	MRDS	10018154	0.15 mi. SW (792 ft.)	PUZZLER	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	513
124	SWF	1623WTR	0.15 mi. E (792 ft.)	CDOT - HIDDEN VALLEY MAINTENANCE	2407 E. COUNTY RD 314, IDAHO SPRINGS, CO 80452	514
125	MRDS	10190784	0.16 mi. S (845 ft.)	NEW TUNNEL	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	515
126	MRDS	10214665	0.16 mi. N (845 ft.)	ATLANTIC,	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	516
127	MRDS	10263715	0.17 mi. N (898 ft.)	TWO KINGS	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	517
128	MRDS	10190569	0.18 mi. S (950 ft.)	ACCORD	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	518
129	MRDS	10263776	0.18 mi. NW (950 ft.)	ALBION	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	519
130	MRDS	10190190	0.18 mi. N (950 ft.)	ARGO	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	520
130	MRDS	10018343	0.18 mi. N (950 ft.)	OPHIR, ARGO	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	522
130	MRDS	10287620	0.18 mi. N (950 ft.)	OPHIR-ARGO	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	523
131	MRDS	10117880	0.18 mi. NE (950 ft.)	MAY QUEEN	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	524
132	MRDS	10239326	0.18 mi. NE (950 ft.)	DUBUQUE	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	525
133	MRDS	10287351	0.19 mi. S (1003 ft.)	MORNING STAR TUNNEL	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	526
134	MRDS	10190727	0.19 mi. NW (1003 ft.)	KANAWHA	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	527
135	MRDS	10142255	0.19 mi. SW (1003 ft.)	WALTHAM	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	528
136	MRDS	10117156	0.19 mi. N (1003 ft.)	OLD CHIEF SHAFT	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	529
137	MRDS	10190526	0.19 mi. S (1003 ft.)	ELKY TUNNEL	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	530
138	MRDS	10264244	0.2 mi. SW (1056 ft.)	STAR MINE	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	531
139	MRDS	10016001	0.2 mi. SW (1056 ft.)	LINCOLN	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	532

Located Sites Summary

140	SMCRA	CO010041	0.2 mi. N (1056 ft.)	DEVILS CANYON PROJECT	CLEAR CREEK COUNTY, DUMONT, CO 80436	535
141	MRDS	10190352	0.2 mi. S (1056 ft.)	DE CAPRIVI MINE	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	537
142	MRDS	10214272	0.21 mi. N (1109 ft.)	BRONABER	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	538
143	MRDS	10117243	0.21 mi. NE (1109 ft.)	SYRACUSE	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	539
144	CDL	3495968975	0.21 mi. SW (1109 ft.)		SHAWNEE, CO 80475	541
145	MRDS	10287964	0.22 mi. N (1162 ft.)	SUTRO COMSTOCK	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	542
146	MRDS	10214214	0.22 mi. S (1162 ft.)	FRANKLIN D TUNNEL	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	543
147	MRDS	10018277	0.22 mi. SW (1162 ft.)	ROCKFORD, LUCANIA, BERRY	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	544
147	MRDS	10287700	0.22 mi. SW (1162 ft.)	ROCKFORD	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	545
148	MRDS	10166482	0.22 mi. N (1162 ft.)	STELLA- INDEPENDENCE SHAFT	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	546
149	CDL	863187168	0.22 mi. N (1162 ft.)		1938 WALL ST, IDAHO SPRINGS, CO	547
150	MRDS	10214537	0.23 mi. N (1214 ft.)	GOLDEN CALF SHAFT	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	548
150	MRDS	10117833	0.23 mi. N (1214 ft.)	GOLDEN CALF MINING	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	549
151	MRDS	10166533	0.24 mi. N (1267 ft.)	HELIOTROPE TUNNEL	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	550
151	SMCRA	CO000783	0.24 mi. N (1267 ft.)	HIAWATHA GULCH PHASE II	CLEAR CREEK COUNTY, DUMONT, CO 80436	551
151	MRDS	10214321	0.24 mi. N (1267 ft.)	MONITOR SHAFT	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	553
152	MRDS	10117252	0.24 mi. N (1267 ft.)	AURUM	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	554
153	MRDS	10117392	0.25 mi. NE (1320 ft.)	LITTLE SIX	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	555
153	MRDS	10214571	0.24 mi. N (1267 ft.)	MASTEDON	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	556
154	MRDS	10142006	0.24 mi. S (1267 ft.)	ANNAMOSA	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	557
155	MRDS	10166917	0.24 mi. S (1267 ft.)	PLATTS BIG CHANCE	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	558
156	MRDS	10142408	0.24 mi. N (1267 ft.)	SUNSHINE TUNNEL	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	560
156	MRDS	10239563	0.24 mi. N (1267 ft.)	EQUINOX SHAFT	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	561
157	MRDS	10142276	0.24 mi. S (1267 ft.)	KENT TUNNEL	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	562
158	MRDS	10287135	0.24 mi. N (1267 ft.)	LITTLE ELLA	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	563
159	MRDS	10214371	0.24 mi. SW (1267 ft.)	CLEAR CREEK SHAFT	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	564

Located Sites Summary

160	MRDS	10167040	0.25 mi. N (1320 ft.)	UNITED GOLD	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	565
161	SEMSARCH	COD983793753	0.25 mi. N (1320 ft.)	CSM EXPERIMENTAL MINE	365 8TH STREET, IDAHO SPRINGS, CO 80452	566
162	SEMS	CON000802484	0.36 mi. SW (1901 ft.)	BULLION KING RAM	BULLION KING MINE, SILVERTON, CO 80452	567
163	SMCRA	CO908125	0.41 mi. S (2165 ft.)	MINER'S CANDLE	CLEAR CREEK COUNTY, IDAHO SPRINGS, CO 80452	568
164	SEMS	CO0009109100	0.42 mi. N (2218 ft.)	QUEEN ELIZABETH/TOM BOY	VIRGINIA NEAR IDAHO SPRINGS, IDAHO SPRINGS, CO 80452	570
165	SMCRA	CO010077	0.47 mi. N (2482 ft.)	NOBEL PROJECT	CLEAR CREEK COUNTY, DUMONT, CO 80436	572

Record of Decision System (RODS)

MAP ID# 1

Distance from Property: 0.001 mi. (5 ft.) NE

EPA ID: COD980717557
NAME: CENTRAL CITY, CLEAR CREEK
ADDRESS: NEAR TOWN, IDAHO SPRINGS, CO
COUNTY: CLEAR CREEK
ROD DATE: 09/29/04
ROD TYPE: RECORD OF DECISION
ROD ID: 08002572004ROD712
CENTRAL CITY, CLEAR CREEK
ABSTRACT SITE NAME: CENTRAL CITY, CLEAR CREEK
ADDRESS: NEAR TOWN
CITY & STATE: IDAHO SPRINGS CO 80452
COUNTY: CLEAR CREEK

EPA ID: COD980717557
EPA REGION: 08

NPL STATUS: CURRENTLY ON THE FINAL NPL

ROD TYPE: RECORD OF DECISION
ROD ID: EPA/541/R-04/712
ROD DATE: 09/29/2004
OPERABLE UNIT(S): 04
ROD DATE: 09/30/91
ROD TYPE: RECORD OF DECISION
ROD ID: 08002571991ROD055
CENTRAL CITY, CLEAR CREEK
ABSTRACT SITE NAME: CENTRAL CITY, CLEAR CREEK
ADDRESS: NEAR TOWN
CITY & STATE: IDAHO SPRINGS CO 80452
COUNTY: CLEAR CREEK

EPA ID: COD980717557
EPA REGION: 08

NPL STATUS: CURRENTLY ON THE FINAL NPL

ROD TYPE: RECORD OF DECISION
ROD ID: EPA/ROD/R08-91/055
ROD DATE: 09/30/1991
OPERABLE UNIT(S): 03

MEDIA: GROUNDWATER

CONTAMINANT: METALS, ARSENIC, CADMIUM, CHROMIUM, LEAD

Record of Decision System (RODS)

ABSTRACT:

THE CENTRAL CITY-CLEAR CREEK SITE IS AN ACTIVE MINING FACILITY IN CENTRAL CITY, CLEAR CREEK AND GILPIN COUNTIES, COLORADO. LAND USE IN THE AREA IS PREDOMINANTLY COMMERCIAL AND RECREATIONAL, AND AN ARTIFICIAL WETLANDS AREA IS LOCATED ONSITE. THE SITE LIES WITHIN THE 400-SQUARE MILE DRAINAGE BASIN OF CLEAR CREEK, WHICH SERVES AS A DRINKING WATER SOURCE FOR SEVERAL MUNICIPALITIES. GOLD MINING OPERATIONS BEGAN ONSITE IN 1859 AND PORTIONS OF THE SITE BECAME SOME OF THE MOST HEAVILY MINED AREAS OF COLORADO. EXTRACTION OF SURFACE ORES LED TO AN INCREASE IN THE DEPTH OF THE MINING AND, CONSEQUENTLY, DRAINAGE TUNNELS WERE CONSTRUCTED TO CONTROL WATER DRAINAGE PROBLEMS. PRESENTLY, SIX MAJOR MINE DRAINAGE TUNNELS ARE THOUGHT TO BE PRINCIPAL DISCHARGE SOURCES OF ACID MINE WATER CONTAINING HIGH CONCENTRATIONS OF METALS TO SURFACE WATERS INCLUDING CLEAR CREEK AND ITS TRIBUTARIES. IN ADDITION, OVER 21 MINE TAILINGS PILES WITH AN ESTIMATED TOTAL VOLUME OF OVER 2,000,000 CUBIC YARDS AT NUMEROUS LOCATIONS THROUGHOUT THE SITE ARE THOUGHT TO BE MAJOR SOURCES OF CONTAMINATION. IN RESPONSE TO SITE CONTAMINATION, EPA HAS CONDUCTED THREE REMOVAL ACTIONS SINCE 1987. IN 1987, EPA CONDUCTED A REMOVAL ACTION TO PREVENT THE COLLAPSE OF A MINE WASTE PILE. ALSO IN 1987, EPA CONDUCTED A SECOND REMOVAL ACTION, WHICH INVOLVED CONNECTING THREE RESIDENCES WITH PRIVATE WELLS TO THE MUNICIPAL PUBLIC WATER SUPPLY. IN 1991, EPA CONDUCTED A THIRD REMOVAL ACTION, WHICH INVOLVED REMOVING UNCONTAMINATED MERCURY FROM A SMALL TRAILER. BECAUSE OF THE COMPLEXITY OF THE SITE, EPA DIVIDED THE SITE INTO SEVERAL OPERABLE UNITS (OUS) FOR REMEDIATION. A 1987 RECORD OF DECISION (ROD) ADDRESSED OU1 AND PROVIDED FOR PASSIVE TREATMENT OF ACID MINE WATER DISCHARGE FROM FIVE DISCHARGING TUNNELS: NATIONAL, GREGORY INCLINE, ARGO TUNNEL, BIG FIVE, AND QUARTZ HILL TUNNELS. A 1988 ROD ADDRESSED OU2 AND PROVIDED FOR THE REMEDIATION OF MINE WASTE PILES IN THE IMMEDIATE PROXIMITY OF THE FIVE DISCHARGING TUNNELS. THIS ROD SUPERSEDES THE REMEDY PROVIDED FOR OU1 IN THE 1987 ROD BY INCLUDING ACTIVE TREATMENT OF THE ARGO TUNNEL AND DELAYING A DECISION ON TREATING THE DISCHARGES FROM THE BIG FIVE, NATIONAL AND QUARTZ HILL TUNNELS, AND THE GREGORY INCLINE. EPA WILL CONSIDER A SUBSEQUENT ROD TO ADDRESS TREATMENT OF THE REMAINING ONSITE TUNNELS PENDING FURTHER MONITORING AND TREATABILITY STUDIES. THE PRIMARY CONTAMINANTS OF CONCERN AFFECTING THE GROUND WATER ARE METALS INCLUDING ARSENIC, CADMIUM, CHROMIUM, AND LEAD.

THE SELECTED REMEDIAL ACTION FOR THIS SITE INCLUDES CONSTRUCTING PHYSICAL BARRIERS FOR MINE WASTE PILES (TO REDUCE METALS LOADING TO SURFACE WATER AND HUMAN HEALTH RISKS FROM INGESTION OR INHALATION OF METALS); TREATING DISCHARGES FROM THE BURLEIGH TUNNEL PASSIVELY THROUGH THE USE OF MAN-MADE WETLANDS; TREATING DISCHARGES FROM THE ARGO TUNNEL ACTIVELY ALONG WITH GROUND WATER PUMPED FROM THE IMMEDIATE AREA; PROVIDING AN ALTERNATE WATER SUPPLY WHERE NEEDED; INVOKING AN INTERIM ACTION WAIVER OF ARARS FOR DISCHARGES FROM THE NATIONAL, QUARTZ HILL, AND BIG FIVE TUNNELS, AND THE GREGORY INCLINE, AND INVOKING A TECHNICAL IMPRACTICALITY WAIVER FOR RESTORING GROUND WATER TO MCLS; COLLECTING DISCHARGES FROM THE NATIONAL AND QUARTZ HILL TUNNELS, AND GREGORY INCLINE WITH FINAL DISPOSITION TO BE ESTABLISHED PENDING FURTHER MONITORING AND TREATABILITY STUDIES; AND IMPLEMENTING INSTITUTIONAL CONTROLS. THE ESTIMATED PRESENT WORTH COST FOR THIS REMEDIAL ACTION IS \$23,510,000, WHICH INCLUDES AN ANNUAL O&M COST OF \$1,204,000 FOR 30 YEARS.

PERFORMANCE STANDARDS OR GOALS; THE PASSIVE TREATMENT SYSTEM WILL REMOVE APPROXIMATELY 99.5 PERCENT OF THE ZINC, 99.84 PERCENT OF THE COPPER, AND 9.7 PERCENT OF THE MANGANESE FROM TUNNEL DISCHARGE. ACTIVE TREATMENT WILL REMOVE 100 PERCENT OF THE ZINC AND MANGANESE, AND 99.84 PERCENT OF THE COPPER.

REMEDY:

Record of Decision System (RODS)

THE CLEAR CREEK/CENTRAL CITY SUPERFUND SITE CONSISTS OF THREE OPERABLE UNITS WHICH WERE DESIGNATED TO ADDRESS HEAVY METALS CONTAMINATION ASSOCIATED WITH HISTORIC MINING ACTIVITY IN THE CLEAR CREEK DRAINAGE BASIN. OPERABLE UNIT #1 WAS DESIGNATED TO ADDRESS THE DISCHARGE OF ACID MINE WATER FROM FIVE TUNNELS (NATIONAL AND GREGORY INCLINE NEAR BLACK HAWK, THE QUARTZ HILL TUNNEL SOUTHWEST OF CENTRAL CITY, AND THE ARGO AND BIG FIVE TUNNELS IN IDAHO SPRINGS). THE OPERABLE UNIT #1 RECORD OF DECISION WAS SIGNED IN SEPTEMBER, 1987. OPERABLE UNIT #2 WAS DESIGNATED TO ADDRESS REMEDIATION OF MINE WASTE PILES IN IMMEDIATE PROXIMITY TO THE FIVE DISCHARGING TUNNELS REFERENCED ABOVE. THE OPERABLE UNIT #2 RECORD OF DECISION WAS SIGNED IN MARCH, 1988. OPERABLE UNIT #3 WAS ORIGINALLY DESIGNATED TO ADDRESS CONTROL OF SURGE EVENTS FROM THE ARGO TUNNEL. THE RECORD OF DECISION FOR OPERABLE UNIT #3 WAS DELAYED PENDING THE OUTCOME OF THE PHASE II INVESTIGATIONS. IN 1988 THE PHASE II INVESTIGATION WAS INITIATED TO TAKE A COMPREHENSIVE VIEW OF THE APPROXIMATELY 400 SQUARE MILE CLEAR CREEK DRAINAGE BASIN. THIS RECORD OF DECISION IS FOR THE PHASE II INVESTIGATIONS. THIS RECORD OF DECISION SUPERSEDES THE OPERABLE UNIT #1 RECORD OF DECISION AND INCLUDES A DECISION FOR THE ORIGINAL OPERABLE UNIT #3. THE OPERABLE UNIT #2 RECORD OF DECISION REMAINS UNCHANGED BY THIS RECORD OF DECISION. FOR THE PURPOSES OF OPERABLE UNIT DESIGNATION, OPERABLE UNIT #3 IS HEREBY REDESIGNATED AND WILL BE EQUIVALENT IN MEANING TO THE PHASE II INVESTIGATIONS.

THE SELECTED REMEDY FOR OPERABLE UNIT #3 ADDRESSES A PORTION OF THE PRINCIPAL THREATS REMAINING AT THE SITE BY TREATING HIGHLY TOXIC AND HIGHLY MOBILE LIQUID WASTES, I.E., ACID MINE DISCHARGES, WHICH PRESENT SIGNIFICANT RISK TO THE ENVIRONMENT. TREATMENT OF THE PRINCIPAL THREATS WILL INCLUDE THE USE OF AN INNOVATIVE EMERGING TECHNOLOGY - PASSIVE TREATMENT VIA CONSTRUCTED WETLANDS. THIS TECHNOLOGY HAS BEEN UNDERGOING LABORATORY AND PILOT SCALE TESTING AT THE SITE UNDER THE SUPERFUND INNOVATIVE TECHNOLOGY EVALUATION (SITE) PROGRAM. THE SELECTED REMEDY ADDRESSES LOW LEVEL THREAT WASTES BY RELIABLY MANAGING SOURCE MATERIALS, I.E., MINE TAILINGS AND WASTE ROCK MATERIAL. THE SELECTED REMEDY ADDRESSES CONTAMINATED GROUND WATER.

THE SELECTED REMEDY FOR OPERABLE UNIT #3 AT THE CLEAR CREEK/CENTRAL CITY SITE IS DESCRIBED BELOW BY ITS MAJOR COMPONENTS;

- * CAPPING OR PHYSICAL BARRIERS, AND INSTITUTIONAL CONTROLS FOR SELECT MINE WASTE PILES.
- * AN ALTERNATE DRINKING WATER SUPPLY WHERE REQUIRED.
- * TREATMENT OF THE BURLEIGH AND ARGO TUNNEL DISCHARGES.
- * A GROUND WATER PUMP AND TREAT SYSTEM IN THE IDAHO SPRINGS AREA TO ADDRESS NON-POINT SOURCE METALS LOADING TO SURFACE WATER.
- * REDUCTION IN THE HEAVY METALS LOAD FROM WOODS CREEK.
- * NO ACTION TO CONTROL SURGE EVENTS FROM TUNNELS.

ADDITIONALLY, THIS RECORD OF DECISION AMENDS THE OPERABLE UNIT #1 RECORD OF DECISION BY;

- * USE OF THE INTERIM WAIVER OF APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS FOR THE DISCHARGE FROM THE BIG FIVE TUNNEL.
- * COLLECTING THE DISCHARGES FROM THE GREGORY INCLINE, NATIONAL AND QUARTZ HILL TUNNELS.
- * DELAYING A DECISION ON TREATMENT OF THE GREGORY INCLINE, NATIONAL AND QUARTZ HILL TUNNELS PENDING TREATABILITY STUDIES AND FURTHER DELINEATION OF THE CONTAMINATION SOURCES IN NORTH CLEAR CREEK. THESE STUDIES WILL SERVE AS A NEW OPERABLE UNIT FOR THE SITE, OPERABLE UNIT #4.

ROD DATE: 03/31/88

ROD TYPE: RECORD OF DECISION

ROD ID: 08002571988ROD019

CENTRAL CITY, CLEAR CREEK

Record of Decision System (RODS)

ABSTRACT SITE NAME: CENTRAL CITY, CLEAR CREEK
ADDRESS: NEAR TOWN
CITY & STATE: IDAHO SPRINGS CO 80452
COUNTY: CLEAR CREEK

EPA ID: COD980717557
EPA REGION: 08

NPL STATUS: CURRENTLY ON THE FINAL NPL

ROD TYPE: RECORD OF DECISION
ROD ID: EPA/ROD/R08-88/019
ROD DATE: 03/31/1988
OPERABLE UNIT(S): 02

MEDIA: SURFACE WATER

CONTAMINANT: INORGANICS (METALS)

ABSTRACT:

THE CLEAR CREEK/CENTRAL CITY SITE IS LOCATED APPROXIMATELY 30 MILES WEST OF DENVER IN CLEAR CREEK AND GILPIN COUNTIES, CO. THE SITE CONSISTS PRIMARILY OF ACID MINE DRAINAGES FROM FIVE MINES/TUNNELS AND ADJACENT MILLING AND MINING WASTES. CURRENTLY, ACID MINE DRAINAGE AND RUNUN AND RUNOFF FROM THE TAILINGS AND WASTE ROCK PILES HAVE AFFECTED DOWNSTREAM SURFACE WATER QUALITY. IN ADDITION TO THE DIRECT DISCHARGE FROM THE MINE TUNNELS, CONTAMINATED WATER MAY ENTER CLEAR CREEK AND NORTH CLEAR CREEK DURING OVERLAND SHEET FLOW. THIS OCCURS DURING RAPID SNOWMELT AND STORMS. THE RESULTING SURFACE FLOW ACROSS THE TAILINGS AND WASTE ROCK PILES DISSOLVES SOLUBLE MINERALS AND TRANSPORTS PARTICULATE TAILINGS AND WASTE ROCK MATERIALS INTO THE CREEKS. ALL THIS RESULTS IN ELEVATED CREEK ACIDITY AND METAL LOADS. THE INTRODUCTION OF TAILINGS AND WASTE ROCK INTO THE CREEKS COULD ALSO OCCUR DUE TO CATASTROPHIC COLLAPSE OF TAILINGS AND WASTE ROCK PILES DURING A FLASH FLOOD OR AS A RESULT OF UNDERCUTTING OF THE BASE OF THE PILE UNDER ANY FLOW REGIMEN. THE DISCHARGES FROM THE FIVE TUNNELS WERE ADDRESSED IN THE FIRST REMEDIAL ACTION OPERABLE UNIT FOR THIS SITE. THE PRIMARY CONTAMINANTS OF CONCERN FOR HUMAN RECEPTORS IN SURFACE WATER INCLUDE; ALUMINUM, ARSENIC, CADMIUM, CHROMIUM (IV), LEAD, MANGANESE, NICKEL, AND SILVER. FOR AQUATIC RECEPTORS, THE ABOVE LIST EXPANDS TO INCLUDE; COPPER, FLUORIDE, AND ZINC.

THE SELECTED REMEDIAL ACTION FOR THIS SITE INCLUDES; SLOPE STABILIZATION AT THE BIG FIVE TUNNEL AND GREGORY INCLINE; MONITORING OF THE GABION WALL AT THE GREGORY INCLINE; AND RUN-ON CONTROL AT THE ARGO TUNNEL, BIG FIVE TUNNEL, GREGORY INCLINE, NATIONAL TUNNEL, AND THE QUARTZ HILL TUNNEL. THE ESTIMATED PRESENT WORTH COST FOR THIS REMEDIAL ACTION IS \$1,049,600.

REMEDY:

THE CLEAR CREEK/CENTRAL CITY SUPERFUND SITE IS LOCATED APPROXIMATELY 30 MILES WEST OF DENVER, COLORADO AND PRIMARILY CONSISTS OF ACID MINE DISCHARGES AND MILLING AND MINING WASTES FROM FIVE MINES/TUNNELS IN THE CLEAR CREEK AND NORTH CLEAR CREEK DRAINAGES. THESE ARE THE ARGO TUNNEL AND BIG FIVE TUNNEL IN THE CLEAR CREEK DRAINAGE; AND THE GREGORY INCLINE, NATIONAL TUNNEL, AND THE QUARTZ HILL TUNNEL IN THE NORTH CLEAR CREEK DRAINAGE. CONDITIONS AT THE FIVE TUNNELS AND TAILINGS AND WASTE ROCK

Record of Decision System (RODS)

PILE LOCATIONS POSE POTENTIAL IMPACTS TO HUMAN HEALTH AND THE ENVIRONMENT.

MORE SPECIFICALLY, POTENTIAL IMPACTS TO HUMAN HEALTH AND THE ENVIRONMENT RESULTING FROM THE ACID MINE DISCHARGES INCLUDE;

- DEGRADATION OF DOWNSTREAM SURFACE WATER QUALITY RESULTING FROM DISSOLVED AND SUSPENDED METALS IN THE DISCHARGES AND RESUSPENDED METAL LADEN SEDIMENTS BELOW THE DISCHARGES; AND
- REDUCTION IN AQUATIC HABITAT QUALITY OR PRODUCTIVITY IN CLEAR CREEK AND NORTH CLEAR CREEK RESULTING FROM CONTAMINATED SURFACE WATER. THESE IMPACTS WERE ADDRESSED IN THE SEPTEMBER 30, 1987 RECORD OF DECISION FOR THE DISCHARGE TREATMENT OPERABLE UNIT OR OPERABLE UNIT NO. ONE FOR THE SITE. OPERABLE UNIT NO. TWO FOR THE SITE, THE TAILINGS AND WASTE ROCK REMEDIATION OPERABLE UNIT, CONSIDERS POTENTIAL IMPACTS TO HUMAN HEALTH AND THE ENVIRONMENT RESULTING FROM;
- DEGRADATION OF DOWNSTREAM SURFACE WATER QUALITY DUE TO COLLAPSE OF THE PILES INTO EITHER CLEAR CREEK OR NORTH CLEAR CREEK;
- DEGRADATION OF DOWNSTREAM SURFACE WATER QUALITY DUE TO RUNON AND RUNOFF FROM THE TAILINGS AND WASTE ROCK PILES; AND
- HUMAN UPTAKE OF METALS FROM THE INHALATION OF DUST OR INGESTION OF MATERIAL FROM THE TAILINGS AND WASTE ROCK PILES.

THESE IMPACTS ARE ADDRESSED IN THIS RECORD OF DECISION.

EPA IS UNDERTAKING AN ADDITIONAL FEASIBILITY STUDY, OPERABLE UNIT NO. THREE OR THE BLOWOUT/DISCHARGE CONTROL OPERABLE UNIT, TO EVALUATE REMEDIAL ACTION ALTERNATIVES FOR REMEDIATING IMPACTS TO HUMAN HEALTH AND THE ENVIRONMENT RESULTING FROM A POTENTIAL BLOWOUT OF THE ARGO TUNNEL. IN ADDITION, THE STATE OF COLORADO HAS SUBMITTED AN APPLICATION TO EPA FOR MONIES TO FUND AN INVESTIGATION TO IDENTIFY OTHER AREAS WITHIN THE MINING DISTRICT WHICH MAY BE SIGNIFICANTLY IMPACTING NORTH CLEAR CREEK AND CLEAR CREEK. THE STATE WILL ALSO INVESTIGATE THE QUALITY OF GROUNDWATER IN THE AREA. DEPENDING UPON THE RESULTS OF THE STATE STUDY, EPA MAY CONSIDER ADDITIONAL OPERABLE UNITS.

THE SELECTED REMEDY FOR OPERABLE UNIT NO. TWO CONSISTS OF SLOPE STABILIZATION AT THE BIG FIVE TUNNEL AND GREGORY INCLINE AND RUNON CONTROL AT ALL FIVE TAILINGS AND WASTE ROCK PILES. NO ACTION WILL BE TAKEN AT THIS TIME TO ADDRESS POTENTIAL IMPACTS FROM INHALATION AND INGESTION OF MATERIAL FROM THE PILES.

THE UNSTABLE SLOPES AT THE BIG FIVE TUNNEL AND GREGORY INCLINE COULD COLLAPSE INTO CLEAR CREEK AND NORTH CLEAR CREEK, RESPECTIVELY, AND THE RESULTING METALS LOADING INTO THE CREEKS WOULD ADVERSELY AFFECT THE WATER QUALITY OF THE CREEKS. SLOPE STABILIZATION AT THE BIG FIVE TUNNEL WILL CONSIST OF REGRADING PORTIONS OF THE PILES TO A STABLE CONFIGURATION AND PLACING LARGE BOULDERS AT THE BASE TO MINIMIZE EROSION. THE CURRENT GABION WALL AT THE GREGORY INCLINE WILL BE MAINTAINED UNTIL MONITORING INDICATES REMEDIATION IS NECESSARY OR UNTIL THE TAILINGS ARE REMOVED FOR REPROCESSING. AT THAT TIME, A PERMANENT SOLUTION WILL BE IMPLEMENTED.

RUNON CONTROL WILL REDUCE THE METALS LOADING TO CLEAR CREEK AND NORTH CLEAR CREEK RESULTING IN AN IMPROVEMENT OF STREAM WATER QUALITY. RUNON CONTROL AT ALL FIVE LOCATIONS WILL CONSIST OF INSTALLING DIVERSION DITCHES ON THE UPGRADIENT SIDES OF THE PILES.

NO ACTION WILL BE TAKEN AT THIS TIME TO ADDRESS POTENTIAL IMPACTS FROM INHALATION AND INGESTION OF MATERIAL FROM THE PILES BECAUSE THE PUBLIC HEALTH EVALUATION FOR THE SITE INDICATED THAT CURRENT OR

Record of Decision System (RODS)

EPISODIC HUMAN HEALTH AND ENVIRONMENTAL RISKS RESULTING FROM THESE EXPOSURE PATHWAYS WERE MINOR. CURRENT USE CONSISTS OF PERIODIC VISITS TO THE SITES BY LOCAL RESIDENTS AND VISITORS. THE PUBLIC HEALTH EVALUATION INDICATED, HOWEVER, THAT FOR A POTENTIAL FUTURE RESIDENTIAL SCENARIO, RISKS RESULTING FROM THE INHALATION AND INGESTION EXPOSURE PATHWAYS ARE OF SOME CONCERN. THEREFORE, EPA WILL EVALUATE THIS NO ACTION DECISION WHEN THE FINAL REMEDY IS SELECTED FOR THE SITE. EPA, IN COORDINATION WITH THE STATE OF COLORADO AND LOCAL OFFICIALS, WILL EVALUATE THE USE OF INSTITUTIONAL MEASURES WHICH WOULD CONTROL ANY HUMAN HEALTH OR ENVIRONMENTAL THREAT THAT COULD BE CREATED BY FUTURE DEVELOPMENT UPON THESE TAILINGS AND WASTE ROCK PILES AND ANY OTHER PILES WHICH THE STATE IDENTIFIES IN ITS STUDY. IN ADDITION, PURSUANT TO SARA SECTION 121(C), EPA WILL REVIEW NO LESS THAN EVERY FIVE YEARS ALL PROPERTIES WHERE HAZARDOUS SUBSTANCES CONTINUE TO REMAIN ONSITE AND, IF NECESSARY, WILL RECONSIDER THIS NO ACTION DECISION.

ESTIMATED COSTS FOR SLOPE STABILIZATION AT THE BIG FIVE TUNNEL AND GREGORY INCLINE AND RUNON CONTROL AT ALL FIVE SITES IS APPROXIMATELY \$1.0 MILLION.

THE SELECTED REMEDY FOR OPERABLE UNIT NO. TWO HAS BEEN CHOSEN TO MITIGATE AND MINIMIZE POTENTIAL IMPACTS RESULTING FROM THE TAILINGS AND WASTE ROCK PILES AND TO PROTECT HUMAN HEALTH AND THE ENVIRONMENT. THE SELECTED REMEDY FOR OPERABLE UNIT NO. TWO IS AN INTERIM REMEDY BECAUSE THE NET BENEFICIAL IMPACT TO CLEAR CREEK AND NORTH CLEAR CREEK WILL NOT BE REALIZED UNTIL THE COMPLETION OF REMEDIAL ACTIONS FOR THE OTHER OPERABLE UNITS. THE SELECTED REMEDY THEREFORE REQUIRES THE EXERCISE OF THE "INTERIM REMEDY" WAIVER (SARA SECTION 121(D)(4)(A)) FROM CONTAMINANT-SPECIFIC ARARS LISTED IN THE FEASIBILITY STUDY. THE INTERIM REMEDY WAIVER ALLOWS FOR THE SELECTION OF A REMEDIAL ACTION THAT DOES NOT ATTAIN ARARS IF "THE REMEDIAL ACTION SELECTED IS ONLY PART OF A TOTAL REMEDIATION ACTION THAT WILL ATTAIN SUCH LEVEL OR STANDARD OF CONTROL WHEN COMPLETED.". THE INTERIM REMEDY IS CONSISTENT WITH THE FINAL SITE REMEDY. LOCATION- AND ACTION-SPECIFIC ARARS WILL BE MET.

ROD DATE: 09/30/87

ROD TYPE: RECORD OF DECISION

ROD ID: 08002571987ROD016

CENTRAL CITY, CLEAR CREEK

ABSTRACT SITE NAME: CENTRAL CITY, CLEAR CREEK

ADDRESS: NEAR TOWN

CITY & STATE: IDAHO SPRINGS CO 80452

COUNTY: CLEAR CREEK

EPA ID: COD980717557

EPA REGION: 08

NPL STATUS: CURRENTLY ON THE FINAL NPL

ROD TYPE: RECORD OF DECISION

ROD ID: EPA/ROD/R08-87/016

ROD DATE: 09/30/1987

OPERABLE UNIT(S): 01

MEDIA: GROUNDWATER SEDIMENTS SURFACE WATER

CONTAMINANT: ARSENIC, CHROMIUM, METALS

Record of Decision System (RODS)

ABSTRACT:

THE CLEAR CREEK/CENTRAL CITY SITE ENCOMPASSES PORTIONS OF CLEAR CREEK COUNTY AND GILPIN COUNTY IN THE COLORADO MINERAL BELTS, CO. MORE SPECIFICALLY, THE FOCUS IS ON FIVE ABANDONED MINES/TUNNELS PROXIMAL TO THE CITIES OF IDAHO SPRINGS, BLACK HAWK AND CENTRAL CITY AND THE INFLUENCE OF ACID MINE DRAINAGE FROM THOSE TUNNELS ON ADJACENT STREAM COURSES. SURFACE WATER CONTAMINATION RESULTS FROM ACID MINE DRAINAGE EMANATING FROM THE FIVE TUNNELS AND FROM SEEPAGE OF GROUND WATER THROUGH TAILINGS PILES BOTH PROXIMAL TO THESE TUNNELS AND ALONG STREAM COURSES. APPROXIMATELY 1,200 LBS PER DAY OF DISSOLVED AND SUSPENDED METAL LOADINGS HAVE RESULTED IN A SIGNIFICANT DEPLETION OF AQUATIC LIFE AND HAVE POTENTIAL IMPACT TO SEDIMENTS AND DOWNSTREAM USERS OF SURFACE AND GROUND WATER. THERE ARE TEN CONTAMINANTS OF CONCERN INCLUDING ALUMINUM, ARSENIC, CADMIUM, CHROMIUM, COPPER, FLUORIDE, LEAD, MANGANESE, NICKEL, SILVER AND ZINC.

THE SELECTED INTERIM REMEDY FOR THIS SITE INCLUDES; CONSTRUCTION OF PASSIVE TREATMENT SYSTEMS TO TREAT MINE TUNNEL DISCHARGE PRIOR TO SURFACE WATER. THIS IS THE PREFERRED ALTERNATIVE AND IS CONTINGENT UPON RESULTS OF ONGOING PILOT PLANT STUDIES. IF WATER QUALITY CONCENTRATIONS CANNOT BE ACHIEVED BY PASSIVE TREATMENT, EITHER A COMBINATION SYSTEM OF PASSIVE AND ACTIVE TREATMENT SYSTEMS WILL BE CONSTRUCTED OR TWO ACTIVE TREATMENT SYSTEMS (CHEMICAL PRECIPITATION OR ELECTROCHEMICAL PRECIPITATION) WILL BE CONSTRUCTED TO TREAT MINE TUNNEL DISCHARGE. THE ESTIMATED CAPITAL COST FOR PASSIVE TREATMENT IS \$1,663,000 WITH ANNUAL O&M OF \$115,000.

REMEDY:

LOW PH MINE TUNNEL DISCHARGE WATER IS ONLY ONE OF SEVERAL SOURCES TO THE DEGRADATION OF WATER QUALITY AND AQUATIC HABITAT AT THE CLEAR CREEK/CENTRAL CITY SITE. DATA GATHERED DURING THE REMEDIAL INVESTIGATION HAS SHOWN THAT;

- RUNOFF FROM TAILINGS AND WASTE ROCK PILES CONTAIN DISSOLVED AND SUSPENDED METALS.
- TAILINGS AND WASTE ROCK PILES ADJACENT TO CLEAR CREEK AND NORTH CLEAR CREEK ARE UNSTABLE AND COULD COLLAPSE INTO THE CREEKS. THESE PILES HAVE THE POTENTIAL TO PRODUCE ACID. WHEN INTRODUCED TO WATER, THE PH WILL RAPIDLY DECREASE AND SIGNIFICANT AMOUNTS OF METALS WILL BE RELEASED TO THE ENVIRONMENT.
- HYDROSTATIC PRESSURE WILL BUILD UP IN THE TUNNELS DUE TO CAVE-INS. AFTER SUFFICIENT PRESSURE HAS BUILT UP, THE TUNNELS WILL BLOW OUT, RELEASING LARGE VOLUMES OF DISSOLVED AND SUSPENDED METALS TO THE CREEKS.
- THE GROUND WATERS IN THE VICINITY OF THE ACID MINE DISCHARGES ARE CONTAMINATED.
- THERE ARE ADDITIONAL SOURCES OF LOW PH MINE TUNNEL DISCHARGES AND TAILINGS UPSTREAM OF THE SITE THAT COULD BE CONTRIBUTING DISSOLVED AND SUSPENDED METALS TO THE STREAMS.

ALL OF THE ABOVE FACTORS CONTRIBUTE TO WATER QUALITY AND AQUATIC HABITAT DEGRADATION AND WILL BE STUDIED IN THE FOLLOWING SUBSEQUENT OPERABLE UNITS;

- OPERABLE UNIT NO. TWO - TAILINGS AND WASTE ROCK REMEDIATION
- OPERABLE UNIT NO. THREE - SOURCE CONTROL
- OPERABLE UNIT NO. FOUR - BLOWOUT CONTROL
- OPERABLE UNIT NO. FIVE - REGIONAL GROUND WATER CONTAMINATION
- OPERABLE UNIT NO. SIX - UPSTREAM MINE DISCHARGES AND TAILINGS.

THESE OPERABLE UNITS ARE SUBJECT TO CHANGE.

Record of Decision System (RODS)

THE SELECTED REMEDY FOR OPERABLE UNIT NO. ONE OF THE CLEAR CREEK/CENTRAL CITY SITE CONSISTS OF TREATMENT TO MEET UPSTREAM WATER QUALITY CONCENTRATION FOR CONTAMINANTS OF CONCERN IDENTIFIED IN THE REMEDIAL INVESTIGATION (RI) IN A TREATMENT SYSTEM DISCHARGE LINE. THE UPSTREAM WATER QUALITY CONCENTRATIONS WILL BE USED AS OPERATIONAL STANDARDS FOR THIS INTERIM REMEDY. THE UPSTREAM WATER QUALITY CONCENTRATIONS ("UPSTREAM LEVELS") CONSIST OF THE GEOMETRIC MEAN OF THE SUBSET OF RI SAMPLES TAKEN ON CLEAR CREEK IMMEDIATELY UPSTREAM OF THE DISCHARGE FROM THE BIG FIVE TUNNEL AND ON NORTH CLEAR CREEK IMMEDIATELY UPSTREAM OF THE DISCHARGE FROM THE GREGORY INCLINE. THESE UPSTREAM LEVELS ARE NOT TO BE CONSIDERED AS FINAL APPLICABLE AND/OR RELEVANT AND APPROPRIATE REQUIREMENTS FOR THE FINAL SITE REMEDY.

BECAUSE A DETERMINATION OF THE FINAL REMEDY IS CONTINGENT UPON THE COMPLETION OF THE OTHER OPERABLE UNITS LISTED ABOVE, THE SELECTED REMEDY IS AN INTERIM REMEDY. THIS INTERIM REMEDY WILL CONSIST OF CONSTRUCTION OF PASSIVE TREATMENT SYSTEMS TO TREAT THE LOW PH MINE TUNNEL DISCHARGE FROM EACH TUNNEL PRIOR TO DISCHARGE TO SURFACE WATERS. THIS IS THE PREFERRED ALTERNATIVE AND IS CONTINGENT UPON THE RESULTS OF ONGOING PILOT PLANT STUDIES DEMONSTRATING THAT UPSTREAM LEVELS CAN BE MET BY A PASSIVE TREATMENT SYSTEM. IF THE UPSTREAM LEVELS CANNOT BE MET BY PASSIVE TREATMENT, THEN EITHER OF THE FOLLOWING TREATMENT SYSTEMS WILL BE BUILT;

- A COMBINATION SYSTEM CONSISTING OF PASSIVE AND ACTIVE TREATMENT SYSTEMS WILL BE CONSTRUCTED. A PHASED APPROACH TO CONSTRUCTION WILL BE UTILIZED.
- TWO ACTIVE TREATMENT SYSTEMS (CHEMICAL PRECIPITATION OR ELECTROCHEMICAL PRECIPITATION) WILL BE CONSTRUCTED TO TREAT MINE TUNNEL DRAINAGE PRIOR TO DISCHARGE.

THESE SYSTEMS WILL BE DESIGNED TO REDUCE THE MOBILITY, TOXICITY OR VOLUME OF DISSOLVED AND SUSPENDED METALS IN THE MINE DRAINAGE, INCREASE PH, AND MEET UPSTREAM LEVELS. UPSTREAM LEVELS ARE LISTED IN THE SELECTED REMEDY SECTION.

A PILOT-TREATMENT SYSTEM FOR PASSIVE TREATMENT HAS BEEN CONSTRUCTED AT THE BIG FIVE TUNNEL. THE PILOT PLANT HAS BEEN CONSTRUCTED TO DETERMINE THE ABILITY OF PASSIVE-TREATMENT EFFLUENT TO MEET UPSTREAM LEVELS FOR THE DISCHARGE FROM A TREATMENT FACILITY AT THE END OF THE FACILITY DISCHARGE PIPE. THE PILOT PLANT WILL ALSO BE OPERATED TO GATHER DESIGN DATA FOR SIZING VOLUME REQUIREMENTS, DETERMINE OPTIMUM DISSOLVED AND SUSPENDED METAL REMOVAL FOR VARIOUS ORGANIC AND VEGETATION TYPES AND CONFIRM REMOVAL EFFICIENCIES. RESULTS OF STUDIES AT THE PILOT PLANT WILL PROVIDE DATA REQUIRED IN ORDER TO DETERMINE FINAL DESIGN CRITERIA. SITING STUDIES WILL EVALUATE ALTERNATE TREATMENT SITE LOCATIONS.

THE REMEDY INCLUDES THE FOLLOWING OPERATION AND MAINTENANCE ACTIVITIES;

PASSIVE TREATMENT

- ANNUAL COLLECTION OF AND LABORATORY ANALYSES OF SOILS AND VEGETATION TO MEASURE HEAVY METAL ACCUMULATION.
 - ANNUAL MAINTENANCE OF VEGETATION.
 - REPLACEMENT OF WETLAND MATERIALS AND DISPOSAL AND TREATMENT OF METAL SATURATED ORGANIC MATERIALS AND PLANTS EVERY 5 TO 10 YEARS.
 - MAINTENANCE OF PIPELINES CARRYING LOW PH MINE TUNNEL DISCHARGE WATER FROM TUNNELS TO PASSIVE TREATMENT SYSTEMS.
- ### **ACTIVE TREATMENT**
- LABOR COSTS FOR OPERATION AND MAINTENANCE OF THE FACILITY.

Record of Decision System (RODS)

- CHEMICAL COSTS AND POWER COSTS FOR OPERATION AND MAINTENANCE OF THE FACILITY.
- SLUDGE TREATMENT AND DISPOSAL COSTS.
- MAINTENANCE OF PIPELINES CARRYING LOW PH MINE TUNNEL DISCHARGE WATER FROM TUNNELS TO TREATMENT FACILITIES. PASSIVE TREATMENT AND ACTIVE TREATMENT COMBINATION
- THE COMBINATION OF COSTS LISTED ABOVE UNDER PASSIVE TREATMENT AND ACTIVE TREATMENT.

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Integrated Compliance Information System (formerly DOCKETS) (ICIS)

[MAP ID# 1](#)

Distance from Property: 0.001 mi. (5 ft.) NE

SITE INFORMATION

GEOSEARCH ID: 110009270975

REGISTRY ID: 110009270975

NAME: CENTRAL CITY, CLEAR CREEK

ADDRESS: NEAR TOWN

IDAHO SPRINGS CO 80452

STANDARD INDUSTRIAL CLASSIFICATION: MISCELLANEOUS METAL ORES, NOT ELSEWHERE CLASSIFIED

REGIONAL DOCKETS

CERCLA-08-2017-0002

RELATED ACTIVITIES

- NO RELATED ACTIVITIES REPORTED

VIOLATIONS

- NO VIOLATIONS REPORTED

CASE IDENTIFIER

CASE NUMBER: 08-2017-0023

FISCAL YEAR: 2017

CASE NAME: QUARTZ HILL TAILINGS PILE

ACTIVITY TYPE: ADMINISTRATIVE - FORMAL

ACTIVITY STATUS: FINAL ORDER ISSUED

ACTIVITY STATUS DATE: 1/30/2017

LEAD: EPA

CASE STATUS DATE: 1/30/2017

DOJ DOCKET NUMBER: NOT REPORTED

ENFORCEMENT OUTCOME: FINAL ORDER NO PENALTY

MULTIMEDIA FLAG: NOT REPORTED

ENFORCEMENT SUMMARY:

SETTLEMENT RESOLVES POTENTIAL LIABILITY FOR CITY OF CENTRAL AT THE QUARTZ HILL TAILINGS PILE WITHIN THE CENTRAL CITY, CLEAR CREEK SUPERFUND SITE. CENTRAL CITY WILL PASS AN ORDINANCE AND CONDUCT OPERATIONS AND MAINTENANCE ON THE QUARTZ HILL TAILINGS PILE.

ENFORCEMENT TYPE

ENFORCEMENT TYPE: CERCLA 122G1A AGRMT FOR DE MINIMUS CR

POLLUTANTS CITED

- NO POLLUTION CITED REPORTED

[Back to Report Summary](#)

Federal Engineering Institutional Control Sites (EC)

MAP ID# 1

Distance from Property: 0.001 mi. (5 ft.) NE

SITE INFORMATION

EPA ID#: **COD980717557**

SITE ID#: **0800257**

SITE NAME: **CENTRAL CITY, CLEAR CREEK**

ADDRESS: **NEAR TOWN**

IDAHO SPRINGS, CO 80452

CONTROLS IN PLACE

OPERATIONAL UNIT: **01**

CONTAMINATION: **SURFACE WATER**

CONTROL: **DISCHARGE (ENGINEERING CONTROL)**

ACTION: **RECORD OF DECISION**

COMPLETION DATE: **9/30/1987**

OPERATIONAL UNIT: **01**

CONTAMINATION: **SURFACE WATER**

CONTROL: **ENGINEERED WETLAND (ENGINEERING CONTROL)**

ACTION: **RECORD OF DECISION**

COMPLETION DATE: **9/30/1987**

OPERATIONAL UNIT: **01**

CONTAMINATION: **SURFACE WATER**

CONTROL: **PRECIPITATION (ENGINEERING CONTROL)**

ACTION: **RECORD OF DECISION**

COMPLETION DATE: **9/30/1987**

OPERATIONAL UNIT: **02**

CONTAMINATION: **GROUNDWATER**

CONTROL: **ENGINEERING CONTROL, (N.O.S.) (ENGINEERING CONTROL)**

ACTION: **EXPLANATION OF SIGNIFICANT DIFFERENCES**

COMPLETION DATE: **9/1/1999**

OPERATIONAL UNIT: **03**

CONTAMINATION: **LEACHATE**

CONTROL: **MONITORING (ENGINEERING CONTROL)**

ACTION: **ROD AMENDMENT**

COMPLETION DATE: **9/22/2003**

OPERATIONAL UNIT: **03**

CONTAMINATION: **LEACHATE**

CONTROL: **NO ACTION (ENGINEERING CONTROL)**

ACTION: **ROD AMENDMENT**

COMPLETION DATE: **9/22/2003**

OPERATIONAL UNIT: **02**

CONTAMINATION: **SOLID WASTE**

CONTROL: **SLOPE STABILIZATION (ENGINEERING CONTROL)**

ACTION: **RECORD OF DECISION**

COMPLETION DATE: **3/31/1988**

OPERATIONAL UNIT: **02**

Federal Engineering Institutional Control Sites (EC)

CONTAMINATION: **SOLID WASTE**
CONTROL: **SURFACE DRAINAGE CONTROL (ENGINEERING CONTROL)**
ACTION: **RECORD OF DECISION**
COMPLETION DATE: **3/31/1988**
OPERATIONAL UNIT: **04**
CONTAMINATION: **SEDIMENT**
CONTROL: **CAP (ENGINEERING CONTROL)**
ACTION: **ROD AMENDMENT**
COMPLETION DATE: **9/25/2006**
OPERATIONAL UNIT: **04**
CONTAMINATION: **SEDIMENT**
CONTROL: **CONSOLIDATE (ENGINEERING CONTROL)**
ACTION: **ROD AMENDMENT**
COMPLETION DATE: **9/25/2006**
OPERATIONAL UNIT: **04**
CONTAMINATION: **SEDIMENT**
CONTROL: **LEACHATE CONTROL (ENGINEERING CONTROL)**
ACTION: **ROD AMENDMENT**
COMPLETION DATE: **9/25/2006**
OPERATIONAL UNIT: **04**
CONTAMINATION: **SEDIMENT**
CONTROL: **SURFACE DRAINAGE CONTROL (ENGINEERING CONTROL)**
ACTION: **ROD AMENDMENT**
COMPLETION DATE: **9/25/2006**
OPERATIONAL UNIT: **04**
CONTAMINATION: **SOLID WASTE**
CONTROL: **CAP (ENGINEERING CONTROL)**
ACTION: **ROD AMENDMENT**
COMPLETION DATE: **9/25/2006**
OPERATIONAL UNIT: **04**
CONTAMINATION: **SOLID WASTE**
CONTROL: **CONSOLIDATE (ENGINEERING CONTROL)**
ACTION: **ROD AMENDMENT**
COMPLETION DATE: **9/25/2006**
OPERATIONAL UNIT: **04**
CONTAMINATION: **SOLID WASTE**
CONTROL: **LEACHATE CONTROL (ENGINEERING CONTROL)**
ACTION: **ROD AMENDMENT**
COMPLETION DATE: **9/25/2006**
OPERATIONAL UNIT: **04**
CONTAMINATION: **SOLID WASTE**
CONTROL: **SURFACE DRAINAGE CONTROL (ENGINEERING CONTROL)**
ACTION: **ROD AMENDMENT**
COMPLETION DATE: **9/25/2006**
OPERATIONAL UNIT: **03**
CONTAMINATION: **SEDIMENT**

Federal Engineering Institutional Control Sites (EC)

CONTROL: **CAP (ENGINEERING CONTROL)**
ACTION: **EXPLANATION OF SIGNIFICANT DIFFERENCES**
COMPLETION DATE: **6/6/2005**
OPERATIONAL UNIT: **03**
CONTAMINATION: **SURFACE WATER**
CONTROL: **DISCHARGE (ENGINEERING CONTROL)**
ACTION: **EXPLANATION OF SIGNIFICANT DIFFERENCES**
COMPLETION DATE: **6/6/2005**
OPERATIONAL UNIT: **03**
CONTAMINATION: **SURFACE WATER**
CONTROL: **TREATMENT, (N.O.S.) (ENGINEERING CONTROL)**
ACTION: **EXPLANATION OF SIGNIFICANT DIFFERENCES**
COMPLETION DATE: **6/6/2005**
OPERATIONAL UNIT: **03**
CONTAMINATION: **GROUNDWATER**
CONTROL: **ALTERNATE DRINKING WATER, PERMANENT REPLACEMENT (ENGINEERING CONTROL)**
ACTION: **RECORD OF DECISION**
COMPLETION DATE: **9/30/1991**
OPERATIONAL UNIT: **03**
CONTAMINATION: **GROUNDWATER**
CONTROL: **PUMP AND TREAT (ENGINEERING CONTROL)**
ACTION: **RECORD OF DECISION**
COMPLETION DATE: **9/30/1991**
OPERATIONAL UNIT: **03**
CONTAMINATION: **SOLID WASTE**
CONTROL: **CAP (ENGINEERING CONTROL)**
ACTION: **RECORD OF DECISION**
COMPLETION DATE: **9/30/1991**
OPERATIONAL UNIT: **03**
CONTAMINATION: **SURFACE WATER**
CONTROL: **ENGINEERED WETLAND (ENGINEERING CONTROL)**
ACTION: **RECORD OF DECISION**
COMPLETION DATE: **9/30/1991**
OPERATIONAL UNIT: **03**
CONTAMINATION: **SOLID WASTE**
CONTROL: **INSTITUTIONAL CONTROLS, (N.O.S.) (INSTITUTIONAL CONTROL)**
ACTION: **RECORD OF DECISION**
COMPLETION DATE: **9/30/1991**
OPERATIONAL UNIT: **04**
CONTAMINATION: **GROUNDWATER**
CONTROL: **NON-FUNDAMENTAL CHANGE (ESD) (ENGINEERING CONTROL)**
ACTION: **ROD AMENDMENT**
COMPLETION DATE: **4/29/2010**
OPERATIONAL UNIT: **04**
CONTAMINATION: **SURFACE WATER**
CONTROL: **NON-FUNDAMENTAL CHANGE (ESD) (ENGINEERING CONTROL)**

Federal Engineering Institutional Control Sites (EC)

ACTION: **ROD AMENDMENT**

COMPLETION DATE: **4/29/2010**

OPERATIONAL UNIT: **04**

CONTAMINATION: **GROUNDWATER**

CONTROL: **AERATION (ENGINEERING CONTROL)**

ACTION: **RECORD OF DECISION**

COMPLETION DATE: **9/29/2004**

OPERATIONAL UNIT: **04**

CONTAMINATION: **GROUNDWATER**

CONTROL: **BIOREACTORS (ENGINEERING CONTROL)**

ACTION: **RECORD OF DECISION**

COMPLETION DATE: **9/29/2004**

OPERATIONAL UNIT: **04**

CONTAMINATION: **GROUNDWATER**

CONTROL: **DISCHARGE (ENGINEERING CONTROL)**

ACTION: **RECORD OF DECISION**

COMPLETION DATE: **9/29/2004**

OPERATIONAL UNIT: **04**

CONTAMINATION: **GROUNDWATER**

CONTROL: **EXTRACTION (ENGINEERING CONTROL)**

ACTION: **RECORD OF DECISION**

COMPLETION DATE: **9/29/2004**

OPERATIONAL UNIT: **04**

CONTAMINATION: **SEDIMENT**

CONTROL: **CAP (ENGINEERING CONTROL)**

ACTION: **RECORD OF DECISION**

COMPLETION DATE: **9/29/2004**

OPERATIONAL UNIT: **04**

CONTAMINATION: **SEDIMENT**

CONTROL: **DISPOSAL (ENGINEERING CONTROL)**

ACTION: **RECORD OF DECISION**

COMPLETION DATE: **9/29/2004**

OPERATIONAL UNIT: **04**

CONTAMINATION: **SEDIMENT**

CONTROL: **ENGINEERING CONTROL, (N.O.S.) (ENGINEERING CONTROL)**

ACTION: **RECORD OF DECISION**

COMPLETION DATE: **9/29/2004**

OPERATIONAL UNIT: **04**

CONTAMINATION: **SEDIMENT**

CONTROL: **EXCAVATION (ENGINEERING CONTROL)**

ACTION: **RECORD OF DECISION**

COMPLETION DATE: **9/29/2004**

OPERATIONAL UNIT: **04**

CONTAMINATION: **SOLID WASTE**

CONTROL: **CAP (ENGINEERING CONTROL)**

ACTION: **RECORD OF DECISION**

Federal Engineering Institutional Control Sites (EC)

COMPLETION DATE: 9/29/2004

OPERATIONAL UNIT: 04

CONTAMINATION: SOLID WASTE

CONTROL: DISPOSAL (ENGINEERING CONTROL)

ACTION: RECORD OF DECISION

COMPLETION DATE: 9/29/2004

OPERATIONAL UNIT: 04

CONTAMINATION: SOLID WASTE

CONTROL: EXCAVATION (ENGINEERING CONTROL)

ACTION: RECORD OF DECISION

COMPLETION DATE: 9/29/2004

OPERATIONAL UNIT: 04

CONTAMINATION: SOLID WASTE

CONTROL: REVEGETATION (ENGINEERING CONTROL)

ACTION: RECORD OF DECISION

COMPLETION DATE: 9/29/2004

OPERATIONAL UNIT: 04

CONTAMINATION: SURFACE WATER

CONTROL: MONITORING (ENGINEERING CONTROL)

ACTION: RECORD OF DECISION

COMPLETION DATE: 9/29/2004

OPERATIONAL UNIT: 04

CONTAMINATION: SURFACE WATER

CONTROL: SURFACE WATER CONTROL (ENGINEERING CONTROL)

ACTION: RECORD OF DECISION

COMPLETION DATE: 9/29/2004

OPERATIONAL UNIT: 04

CONTAMINATION: SURFACE WATER

CONTROL: TREATMENT, (N.O.S.) (ENGINEERING CONTROL)

ACTION: RECORD OF DECISION

COMPLETION DATE: 9/29/2004

OPERATIONAL UNIT: 04

CONTAMINATION: GROUNDWATER

CONTROL: COVENANT (INSTITUTIONAL CONTROL)

ACTION: RECORD OF DECISION

COMPLETION DATE: 9/29/2004

OPERATIONAL UNIT: 04

CONTAMINATION: GROUNDWATER

CONTROL: GROUNDWATER USE/WELL DRILLING REGULATION (INSTITUTIONAL CONTROL)

ACTION: RECORD OF DECISION

COMPLETION DATE: 9/29/2004

OPERATIONAL UNIT: 04

CONTAMINATION: GROUNDWATER

CONTROL: NOTICE IN NEWSPAPER (INSTITUTIONAL CONTROL)

ACTION: RECORD OF DECISION

COMPLETION DATE: 9/29/2004

Federal Engineering Institutional Control Sites (EC)

OPERATIONAL UNIT: **04**

CONTAMINATION: **GROUNDWATER**

CONTROL: **NOTICES TO STATE REGULATORS BEFORE CHANGES IN LAND USE (INSTITUTIONAL CONTROL)**

ACTION: **RECORD OF DECISION**

COMPLETION DATE: **9/29/2004**

OPERATIONAL UNIT: **04**

CONTAMINATION: **SEDIMENT**

CONTROL: **COVENANT (INSTITUTIONAL CONTROL)**

ACTION: **RECORD OF DECISION**

COMPLETION DATE: **9/29/2004**

OPERATIONAL UNIT: **04**

CONTAMINATION: **SEDIMENT**

CONTROL: **NOTICE IN NEWSPAPER (INSTITUTIONAL CONTROL)**

ACTION: **RECORD OF DECISION**

COMPLETION DATE: **9/29/2004**

OPERATIONAL UNIT: **04**

CONTAMINATION: **SEDIMENT**

CONTROL: **NOTICES TO STATE REGULATORS BEFORE CHANGES IN LAND OWNERSHIP (INSTITUTIONAL CONTROL)**

ACTION: **RECORD OF DECISION**

COMPLETION DATE: **9/29/2004**

OPERATIONAL UNIT: **04**

CONTAMINATION: **SEDIMENT**

CONTROL: **ZONING REGULATION (INSTITUTIONAL CONTROL)**

ACTION: **RECORD OF DECISION**

COMPLETION DATE: **9/29/2004**

OPERATIONAL UNIT: **04**

CONTAMINATION: **SOLID WASTE**

CONTROL: **COVENANT (INSTITUTIONAL CONTROL)**

ACTION: **RECORD OF DECISION**

COMPLETION DATE: **9/29/2004**

OPERATIONAL UNIT: **04**

CONTAMINATION: **SOLID WASTE**

CONTROL: **ZONING REGULATION (INSTITUTIONAL CONTROL)**

ACTION: **RECORD OF DECISION**

COMPLETION DATE: **9/29/2004**

OPERATIONAL UNIT: **04**

CONTAMINATION: **SURFACE WATER**

CONTROL: **COVENANT (INSTITUTIONAL CONTROL)**

ACTION: **RECORD OF DECISION**

COMPLETION DATE: **9/29/2004**

OPERATIONAL UNIT: **04**

CONTAMINATION: **SURFACE WATER**

CONTROL: **NOTICE IN NEWSPAPER (INSTITUTIONAL CONTROL)**

ACTION: **RECORD OF DECISION**

COMPLETION DATE: **9/29/2004**

OPERATIONAL UNIT: **04**

Federal Engineering Institutional Control Sites (EC)

CONTAMINATION: **SURFACE WATER**

CONTROL: **NOTICES TO STATE REGULATORS BEFORE CHANGES IN LAND USE (INSTITUTIONAL CONTROL)**

ACTION: **RECORD OF DECISION**

COMPLETION DATE: **9/29/2004**

OPERATIONAL UNIT: **04**

CONTAMINATION: **SURFACE WATER**

CONTROL: **ZONING REGULATION (INSTITUTIONAL CONTROL)**

ACTION: **RECORD OF DECISION**

COMPLETION DATE: **9/29/2004**

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Superfund Sites (SF)

[MAP ID# 1](#)

Distance from Property: 0.001 mi. (5 ft.) NE

SITE INFORMATION

EPA ID: COD980717557

SITE ID: 0800257

SITE NAME: CENTRAL CITY/CLEAR CREEK

SITE ADDRESS: NEAR TOWN

IDAHO SPGS,CENT.CY,BKHAWK, CO 80452

SITE COUNTY: CLEAR CREEK

ADDITIONAL INFORMATION: ACTIVE SUPERFUND SITES

MAP LINKS: [HTTP://EMAPS.DPHE.STATE.CO.US/HMSITEMAP/NPL/CENTRALCITY.HTM](http://EMAPS.DPHE.STATE.CO.US/HMSITEMAP/NPL/CENTRALCITY.HTM)

CONTACT INFORMATION

NAME: RON ABEL

PHONE: (303) 692-3381

SITE SUMMARY

LOCATION:

THE CLEAR CREEK/CENTRAL CITY SUPERFUND SITE IS LOCATED IN CLEAR CREEK AND GILPIN COUNTIES, APPROXIMATELY 30 MILES WEST OF DENVER. THE SUPERFUND STUDY AREA COVERS THE 400-SQUARE MILE DRAINAGE BASIN OF CLEAR CREEK, WHICH HAS BEEN AFFECTED BY A NUMBER OF INACTIVE PRECIOUS METAL MINES. THE SUPERFUND INVESTIGATION HAS FOCUSED ON MINE DRAINAGE TUNNELS AND MINE TAILINGS AND WASTE ROCK PILES.

HISTORY:

GOLD WAS DISCOVERED NEAR IDAHO SPRINGS IN 1859, AND IN THE BLACK HAWK/CENTRAL CITY AREA IN 1860. FOR THE NEXT 20 YEARS, THE BLACK HAWK/CENTRAL CITY AREA WAS THE LEADING MINING CENTER IN COLORADO WITH THE CONSTRUCTION OF MILLS TO PROCESS THE GOLD AND SILVER FOUND THROUGH PLACER AND HARD ROCK MINING. THE DECLINE OF MINING IN THE AREA BEGAN WITH THE SILVER CRASH IN THE 1890'S AND THE RISE IN MINING IN LEADVILLE. HOWEVER, MINING CONTINUED TO BE AN IMPORTANT INDUSTRY IN CLEAR CREEK AND GILPIN COUNTIES FROM THE TURN OF THE CENTURY UNTIL APPROXIMATELY 1950. SINCE 1950, MINING IN THE AREA HAS BEEN LIMITED WITH ONLY A HANDFUL OF MINES CURRENTLY OPERATING. THE SITE WAS PLACED ON THE LIST OF SUPERFUND SITES IN SEPTEMBER 1983. SINCE THAT TIME, THE DEPARTMENT, EPA AND THE LOCAL COMMUNITY HAVE WORKED TO CLEAN UP HEAVY METAL CONTAMINATION RESULTING FROM DECADES OF HARD ROCK MINING IN THE AREA. THE DEPARTMENT AND EPA HAVE DEVELOPED CLEAN-UP PLANS TO DEAL WITH THE WORST SOURCES OF CONTAMINATION WITHIN THE CLEAR CREEK WATERSHED. IN 1992, LIMITED STAKES GAMING BEGAN IN CENTRAL CITY AND BLACK HAWK. INTRODUCTION OF GAMBLING HAS LED TO SOME LAND USE CHANGES. WHILE THESE CHANGES HAVE THE POTENTIAL TO INCREASE THE DIRECT HUMAN EXPOSURE TO MINE WASTES, MANY MINE WASTE CLEAN-UP PROJECTS WERE IMPLEMENTED AS PROPERTY DEVELOPED.

ENVIRONMENTAL CONCERNS

CHEMICALS:

NOT REPORTED

EXPOSURE:

NOT REPORTED

SITE REMEDIATION:

THE CLEAN UP PLANS FOR THE CLEAR CREEK/CENTRAL CITY SUPERFUND SITE CALL FOR TREATMENT OF CONTAMINATED WATER DISCHARGING FROM A NUMBER OF DIFFERENT MINES, CAPPING OF TAILINGS AND WASTE ROCK PILES DETERMINED TO BE THE LARGEST SOURCES OF CONTAMINATION, FURTHER INVESTIGATION OF GROUND WATER, AND PLANS TO IDENTIFY CONTAMINATED DOMESTIC WELLS AND PROVIDE THE OWNERS WITH AN ALTERNATE SUPPLY OF DRINKING WATER.

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THE ARGO TUNNEL, IN IDAHO SPRINGS, IS THE LARGEST SINGLE SOURCE OF METALS CONTAMINATION TO CLEAR CREEK. CONSTRUCTION OF A 700 GALLON PER MINUTE TREATMENT FACILITY WAS COMPLETED IN 1998. FULL TIME OPERATION OF THE TREATMENT PLANT BEGAN IN APRIL 1988. APPROXIMATELY 1200 POUNDS OF METALS ARE PREVENTED FROM ENTERING CLEAR CREEK EACH DAY DUE TO TREATMENT OF THE ARGO TUNNEL. THE REMOVED METALS ARE PRESSED INTO A SOLID WASTE AND DISPOSED OF IN A SOLID WASTE LANDFILL. THE TREATED WATER IS DISCHARGED INTO CLEAR CREEK.

AT THE BURLEIGH TUNNEL IN SILVER PLUME, THE DEPARTMENT CONSTRUCTED A PILOT SCALE PASSIVE TREATMENT SYSTEM TO TEST AN ALTERNATIVE TECHNOLOGY FOR TREATING ACID MINE DISCHARGE. ALTHOUGH ORIGINAL RESULTS WERE PROMISING, THE TECHNOLOGY WAS DETERMINED NOT TO BE APPROPRIATE FOR TREATING THE CONTAMINATED WATER FLOWING FROM THE BURLEIGH TUNNEL AND THE PILOT SYSTEM WAS DISMANTLED IN 1999. THE DEPARTMENT AND EPA CONTINUE TO MONITOR WATER QUALITY IN THE VICINITY AND ARE EXPLORING OTHER OPTIONS FOR THE BURLEIGH TUNNEL.

CLEAN-UP OF PRIORITY WASTE PILES BEGAN IN 1993, AND IS ON-GOING. BETWEEN 1993 AND 1999, THE DEPARTMENT AND EPA HAVE WORKED WITH A NUMBER OF GOVERNMENT ENTITIES, DEVELOPERS, INDIVIDUAL PROPERTY OWNERS, AND COMMUNITY STAKEHOLDERS TO COMPLETE CLEAN UP WORK AT TWELVE PRIORITY WASTE PILE LOCATIONS. WASTE PILES REMEDIATED IN CLEAR CREEK COUNTY INCLUDE THE MINNESOTA MINE NEAR EMPIRE, THE MCCLELLAND TAILINGS NEAR DUMONT, AND THE BLACK EAGLE AND LITTLE BEAR WASTE PILES NEAR IDAHO SPRINGS. IN THE BLACK HAWK/CENTRAL CITY AREA CLEAN-UP HAS BEEN COMPLETED AT THE MILLSITE #11 & #12, CHASE GULCH #1, GREGORY INCLINE, GREGORY #1, GREGORY #2, NATIONAL TUNNEL, CLAY COUNTY, NORTH CLEAR CREEK, BIG FIVE AND BOODLE MILL WASTE PILES. ADDITIONAL MINE WASTE PILE CLEAN-UPS ARE SCHEDULED .

THE DEPARTMENT AND EPA ARE ALSO TAKING STEPS TO ADDRESS GROUNDWATER CONTAMINATION IN SELECT PORTIONS OF THE SUPERFUND STUDY AREA. VIRGINIA CANYON DRAINS THE MOUNTAIN CANYONS NORTH OF IDAHO SPRINGS. GROUNDWATER IN THE VICINITY OF VIRGINIA CANYON IS CONTAMINATED BY THE LARGE CONCENTRATION OF ABANDONED MINES IN THE AREA. GROUNDWATER FLOW IS CONCENTRATED BY THE CANYON AND ENTERS CLEAR CREEK JUST UPSTREAM OF THE ARGO TUNNEL TREATMENT FACILITY. THE DEPARTMENT IS EVALUATING THE POTENTIAL MEAN AND VIABILITY OF EXTRACTING THE CONTAMINATED GROUNDWATER WITH FUTURE PLANS TO PUMP THE GROUNDWATER TO THE ARGO FACILITY FOR TREATMENT.

THE AGENCIES HAVE ALSO TAKEN STEPS TO PROTECT INDIVIDUAL HOME OWNERS WHO MIGHT BE DRINKING CONTAMINATED WATER FROM DOMESTIC WELLS. FROM 1994 THROUGH 1996, THE DEPARTMENT OPERATED A VOLUNTARY RESIDENTIAL WELL TESTING PROGRAM. UNDER THE PROGRAMS, OWNERS OF DOMESTIC WELLS WERE OFFERED FREE WELL WATER SAMPLING AND ANALYSIS. OWNERS WHOSE WELL WATER CONTAINED LEVELS OF METALS THAT EXCEEDED DRINKING WATER STANDARDS WERE SUPPLIED WITH BOTTLED WATER. ONLY A SMALL PERCENTAGE OF THE WELLS TESTED REQUIRED AN ALTERNATE SOURCE OF DRINKING WATER, AND THOSE HOMES HAVE BEEN RECEIVING BOTTLED WATER EVER SINCE. THE DEPARTMENT IS IN THE PROCESS OF SELECTING LONG TERM ALTERNATIVE DRINKING WATER SOURCES FOR THE HOMES AFFECTED BY CONTAMINATED WELL WATER.

THE DEPARTMENT AND EPA WILL COMPLETE REMEDIATION WORK REQUIRED BY EXISTING CLEAN-UP PLANS. THE AGENCIES HAVE ALSO BEEN WORKING WITH LOCAL WATERSHED STAKEHOLDERS TO IDENTIFY SIGNIFICANT SOURCES OF CONTAMINATION NOT COVERED BY EXISTING PLANS. THE GOAL OF THIS PROCESS IS TO COMPLETE WORK OUTLINED IN EXISTING PLANS, IDENTIFY AND DETERMINE APPROPRIATE CLEAN-UP PLANS FOR SIGNIFICANT CONTAMINATION SOURCES NOT INCLUDED IN EXISTING WORK PLANS, AND OVER THE LONG TERM, TO COMPLETE THE SUPERFUND CLEAN-UP OF THE CLEAR CREEK WATERSHED.

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Facility Registry System (FRSCO)

[MAP ID# 1](#)

Distance from Property: 0.001 mi. (5 ft.) NE

FACILITY INFORMATION

REGISTRY ID: 110009270975

NAME: CENTRAL CITY, CLEAR CREEK

LOCATION ADDRESS: NEAR TOWN
IDAHO SPRINGS, CO 80452

COUNTY: CLEAR CREEK

EPA REGION: 08

FEDERAL FACILITY: NOT REPORTED

TRIBAL LAND: NOT REPORTED

ALTERNATIVE NAME/S:

CENTRAL CITY, CLEAR CREEK

CENTRAL CITY-CLEAR CREEK

NEWHOUSE TUNNEL

PROGRAM/S LISTED FOR THIS FACILITY

ICIS - INTEGRATED COMPLIANCE INFORMATION SYSTEM

ECOMAP - COLORADO

SEMS - SEMS

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

1099 - MISCELLANEOUS METAL ORES, NOT ELSEWHERE CLASSIFIED

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

NO NAICS DATA REPORTED

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Superfund Enterprise Management System (SEMS)

MAP ID# 1

Distance from Property: 0.001 mi. (5 ft.) NE

FACILITY INFORMATION

EPA ID#: COD980717557

SITE ID#: 0800257

NAME: CENTRAL CITY, CLEAR CREEK

ADDRESS: NEAR TOWN

IDAHO SPRINGS, CO 80452

COUNTY: CLEAR CREEK

FEDERAL FACILITY: NO - NOT A FEDERAL FACILITY

NPL: CURRENTLY ON THE FINAL NPL

NON NPL STATUS: NOT REPORTED

Below information was gathered from the prior CERCLIS update completed in 10/2013 update:

NON-NPL STATUS DATE: NOT REPORTED

PHYSICAL CLASSIFICATION OF SITE / INCIDENT: MINES/TAILINGS

FEDERAL REGISTER INFORMATION

DATE	VOLUME	PAGE #	ACTION	HRS SCORE
09/08/1983	48	40658	PROMULGATED TO THE FINAL NPL	51.39000
12/30/1982	47	58476	PROPOSED TO THE FINAL NPL	46.65000

SITE DESCRIPTION

THE CLEAR CREEK WATERSHED INCORPORATES THE CLEAR CREEK/CENTRAL CITY SUPERFUND INVESTIGATION AREA AND THE HISTORIC MINING ACTIVITIES ASSOCIATED WITH THE COLORADO MINERAL BELT WHERE THE WATERSHED AND THE MINERAL BELT INTERSECT. THE WATER QUALITY OF THE WATERSHED IS COMPROMISED BY METALS CONTAMINATION FROM ACID MINE DRAINAGE DISCHARGING FROM HISTORIC MINE TUNNELS TO CLEAR CREEK AND ITS TRIBUTARIES, FROM DIFFUSE GROUND WATER METALS LOADINGS ASSOCIATED WITH FLOODED UNDERGROUND MINE WORKINGS, AND FROM MINE WASTE PILES LOCATED ADJACENT TO THE FLOWS IN CLEAR CREEK AND ITS TRIBUTARIES. AS A RESULT, THE EPA INCLUDED THE WATERSHED ON THE INTERIM NATIONAL PRIORITY LIST (NPL) IN 1982. IN 1983 IT WAS RETAINED ON THE FINAL NPL.

A PHASE I CLEAR CREEK/CENTRAL CITY REMEDIAL INVESTIGATION AND FEASIBILITY STUDY (RI/FS) WERE CONDUCTED IN 1985 IN THE IDAHO SPRINGS AND THE BLACK HAWK/CENTRAL CITY AREAS. THIS INVESTIGATION FOCUSED ON DISCHARGES AND MINING-RELATED WASTES ASSOCIATED WITH THE BIG 5 TUNNEL AND ARGO TUNNEL LOCATED IN IDAHO SPRINGS, COLORADO, AND THE NATIONAL TUNNEL, QUARTZ HILL TUNNEL IN CENTRAL CITY, COLORADO, AND THE GREGORY INCLINE IN BLACK HAWK, COLORADO. THE PHASE I FS WAS COMPLETED IN AUGUST 1988.

A PHASE II CLEAR CREEK/CENTRAL CITY RI/FS WAS IMPLEMENTED IN 1989 FOR THE COLORADO DEPARTMENT OF HEALTH, KNOWN NOW AS THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT (CDPHE), WHICH WAS DESIGNATED THE ROLE OF LEAD AGENCY IN 1988. THE PHASE II INVESTIGATION BROADENED THE ORIGINAL PHASE I AREA TO INCLUDE THE APPROXIMATELY 400 SQUARE MILE CLEAR CREEK WATERSHED ABOVE GOLDEN, COLORADO. THE PHASE II RI WAS COMPLETED IN SEPTEMBER 1990 AND THE DRAFT PHASE II FS SUBMITTED TO THE PUBLIC FOR COMMENT IN JUNE 1991.

THE CLEAR CREEK CENTRAL CITY SUPERFUND INVESTIGATION AREA WAS DIVIDED INTO FOUR OPERABLE UNITS (OUS) FOR THE PURPOSE OF ADDRESSING SPECIFIC SOURCES OF METALS CONTAMINATION.

OU1 WAS DESIGNATED TO EVALUATE TREATMENT OF THE ACID MINE DRAINAGE FROM THE NATIONAL, GREGORY INCLINE, QUARTZ HILL, ARGO, AND BIG FIVE TUNNEL DISCHARGES. THE FEASIBILITY STUDY FOR OU1 WAS COMPLETED IN

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1987 AND A RECORD OF DECISION (ROD) WAS SIGNED IN SEPTEMBER 1987. THE ROD SELECTED PASSIVE TREATMENT OF THE DISCHARGING ACID MINE WATER AS THE PREFERRED REMEDIAL ALTERNATIVE. IF IT WAS DETERMINED THAT PASSIVE TREATMENT WAS NOT EFFECTIVE, THE ROD ALLOWED THE FLEXIBILITY FOR ACTIVE TREATMENT. ACTIVE TREATMENT OF THE ARGO TUNNEL DISCHARGE HAS BEEN EFFECTIVE IN REDUCING METALS LOADING TO CLEAR CREEK.

OPERABLE UNIT 01:

SURFACE WATER CONTAMINATION RESULTS FROM ACID MINE DRAINAGE EMANATING FROM THE FIVE TUNNELS AND FROM SEEPAGE OF GROUND WATER THROUGH TAILINGS PILES BOTH PROXIMAL TO THESE TUNNELS AND ALONG STREAM COURSES. POTENTIAL CONTAMINANT RECEPTORS INCLUDE INHABITANTS OF THE AREA, DOWNSTREAM SURFACE WATER AND GROUND WATER USERS AND WILDLIFE, BOTH TERRESTRIAL AND AQUATIC. RECENT STUDIES COMPLETED BY EPA INDICATE THAT SIGNIFICANT LOADINGS OF DISSOLVED AND SUSPENDED METALS (1,200 POUNDS PER DAY) ARE DISCHARGED TO THE CLEAR CREEK DRAINAGE FROM THE FIVE MINE TUNNELS. THESE DISSOLVED AND SUSPENDED METAL LOADINGS HAVE RESULTED IN A SIGNIFICANT DEPLETION OF AQUATIC LIFE AND HAVE POTENTIAL IMPACT TO DOWNSTREAM USERS OF SURFACE AND GROUND WATER.

THE ACIDITY OF THE MINE DRAINAGE IS DUE LARGELY TO OXIDIZED GROUND WATER PASSING THROUGH ORE ZONES DOMINATED BY IRON-BEARING MINERALS, PRIMARILY PYRITE. ONE METHOD OF FORMING ACID MINE DRAINAGE IS SULFIDE OXIDATION BEING CATALYZED BY AEROBIC BACTERIA, PARTICULARLY THE GENUS THIOBACILLUS, RESULTING IN THE RELEASE OF SULFURIC ACID AND, CONSEQUENTLY, FURTHER MINERAL DISSOLUTION. SUBSEQUENT DISCHARGE FROM THE TUNNELS RELEASES DISSOLVED AND SUSPENDED METALS TO CLEAR CREEK AND NORTH CLEAR CREEK, ADVERSELY AFFECTING WATER QUALITY FOR DOWNSTREAM USERS.

A RECORD OF DECISION ADDRESSING OPERABLE UNIT 01 OF THE CENTRAL CITY/CLEAR CREEK SITE WAS COMPLETED IN SEPTEMBER 1987.

OPERABLE UNIT 02:

THE WASTE ROCK/TAILINGS PILES CONSIDERED IN THE OPERABLE UNIT WERE SELECTED BASED ON THEIR LOCATION CLOSE TO THE ACID MINE DISCHARGES. CURRENTLY, THE MAJOR IMPACTS ON THE WATER QUALITY OF CLEAR CREEK ARE THE BIG FIVE AND ARGO MINE TUNNEL DISCHARGES. THE WATER QUALITY OF NORTH CLEAR CREEK IS AFFECTED BY THE NATIONAL TUNNEL DISCHARGE AND SEEPAGE FROM THE GREGORY INCLINE AND THE QUARTZ HILL TUNNEL. THE DISCHARGES FROM THE FIVE SITES WERE ADDRESSED IN OPERABLE UNIT NO. ONE.

IN ADDITION TO DIRECT DISCHARGE FROM THE MINE TUNNELS, CONTAMINATED WATER MAY ENTER THE CREEKS DURING OVERLAND SHEET FLOW. OVERLAND RUNOFF OCCURS DURING RAPID SNOW MELT AND THUNDERSTORMS. THE RESULTING SURFACE FLOW ACROSS THE TAILINGS AND WASTE ROCK PILES DISSOLVES SOLUBLE MINERALS AND TRANSPORTS PARTICULATE TAILINGS AND WASTE ROCK MATERIAL INTO THE CREEKS. THESE MECHANISMS RESULT IN ELEVATED CREEK ACIDITY AND METAL LOADS. THE INTRODUCTION OF TAILINGS AND WASTE ROCK INTO THE CREEKS COULD ALSO OCCUR DUE TO CATASTROPHIC COLLAPSE OF TAILINGS AND WASTE ROCK PILES DURING A FLASH FLOOD OR AS A RESULT OF UNDERCUTTING OF THE BASE OF THE PILE UNDER ANY FLOW REGIME.

A RECORD OF DECISION ADDRESSING OPERABLE UNIT TWO WAS COMPLETED IN MARCH 1988.

OU3 WAS ORIGINALLY DESIGNATED TO ADDRESS CONTROL OF SURGE EVENTS FROM THE ARGO TUNNEL PURSUANT TO THE PHASE I INVESTIGATION. HOWEVER, OU3 WAS REDESIGNED TO INCLUDE A FINAL DECISION FOR SURGE EVENTS FROM THE ARGO TUNNEL; THE VIRGINIA CANYON GROUND WATER METALS LOADING THAT IMPACTS THE WATER QUALITY OF CLEAR CREEK; REMEDIATION OF SEVERAL MINE WASTE ROCK PILES; A DECISION ON THE BIG 5 TUNNEL DISCHARGE; AND THE BURLEIGH TUNNEL DISCHARGE BASED UPON THE RESULTS OF THE PHASE II INVESTIGATION. THE OU3 ROD WAS SIGNED ON SEPTEMBER 30, 1991. THE PREFERRED REMEDIAL ACTION PLAN SELECTED TO ADDRESS THE

Superfund Enterprise Management System (SEMS)

BURLEIGH TUNNEL DISCHARGE WAS PASSIVE TREATMENT UTILIZING CONSTRUCTED WETLAND TECHNOLOGY. A ROD AMENDMENT ADDRESSING OU3 WAS COMPLETED IN SEPTEMBER 2003.

OU 3 WAS ORIGINALLY DESIGNATED TO ADDRESS CONTROL OF SURGE EVENTS OF ACID MINE DRAINAGE FROM THE ARGO TUNNEL. THE SIGNING OF THE OU 3 ROD WAS DELAYED PENDING THE OUTCOME OF ADDITIONAL PHASE II INVESTIGATIONS. IN 1988, A PHASE II REMEDIAL INVESTIGATION (RI) WAS INITIATED TO TAKE A COMPREHENSIVE VIEW OF THE APPROXIMATELY 400 SQUARE MILE CLEAR CREEK DRAINAGE BASIN. THE OU 3 ROD WAS SIGNED ON SEPTEMBER 30, 1991, AND ADDRESSED THE PROBLEMS IDENTIFIED IN THE PHASE II RI. THE OU 3 ROD SUPERSEDED THE ORIGINAL OU 1 ROD. THE OU 2 ROD REMAINED UNCHANGED BY THE OU 3 ROD. THE OU 3 ROD SELECTED A COMBINATION OF ACTIVE TREATMENT FOR THE ARGO TUNNEL, PASSIVE TREATMENT FOR THE BURLEIGH TUNNEL, COLLECTION OF VIRGINIA CANYON GROUND WATER FOR TREATMENT, PROVISION OF AN ALTERNATE DRINKING WATER SUPPLY FOR USERS OF CONTAMINATED GROUND WATER, AND CAPPING, RUNON CONTROLS, RUNOFF CONTROLS, INSTITUTIONAL CONTROLS, AND/OR RETAINING STRUCTURES AS APPLICABLE FOR SELECTED PRIORITY MINE WASTE PILES. THE OU 3 ROD UTILIZED AN INTERIM WAIVER OF APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS (ARARS) TO DEFER A DECISION ON TREATMENT OF THE BIG FIVE TUNNEL, QUARTZ HILL TUNNEL, NATIONAL TUNNEL, AND GREGORY INCLINE. THE OU 4 RI, FEASIBILITY STUDY (FS), AND ROD HAVE SINCE EVALUATED AND ADDRESSED THE NATIONAL AND QUARTZ HILL TUNNELS AND GREGORY INCLINE THROUGH A COMBINATION OF ACTIVE AND PASSIVE TREATMENT SYSTEMS. THE BIG FIVE TUNNEL REQUIRES A FINAL DECISION.

THE OU 3 ROD STATED THAT: "THE INTERIM WAIVER OF APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS (ARARS) WAS INVOKED FOR THE BIG FIVE DISCHARGE. THE BIG FIVE DISCHARGE IS CURRENTLY DESIGNATED AS A PRIORITY DISCHARGE UNDER SECTION 304 (I) OF THE CLEAN WATER ACT BECAUSE IT WAS ORIGINALLY BELIEVED THAT THE DISCHARGE WAS IMPAIRING THE ATTAINMENT OF THE WATER QUALITY STANDARDS FOR CLEAR CREEK".

AS SPECIFIED UNDER THE STATUTORY DETERMINATIONS PORTION AT THE END OF THE OU 3 ROD, THE SELECTED ALTERNATIVE DETAILED UNDER THE OU 3 ROD WAS NOT INTENDED TO BE THE FINAL REMEDY OF THE SITE. BECAUSE THE ACTION PRESENTED UNDER THE OU 3 ROD WAS AN INTERIM ACTION, THE STATUTORY PREFERENCE FOR REMEDIES THAT REDUCE TOXICITY, MOBILITY, OR VOLUME AS A PRINCIPAL ELEMENT WOULD BE ADDRESSED BY THE FINAL RESPONSE ACTION FOR THE SITE. REVIEW OF THE SITE AND OF THE INTERIM REMEDY WOULD BE ONGOING AS THE EPA AND CDPHE CONTINUED TO DEVELOP FINAL REMEDIAL ALTERNATIVES FOR THE SITE.

TREATMENT OF THE BIG FIVE DISCHARGE AFTER IT IS CONVEYED TO THE EXISTING ARGO WATER TREATMENT FACILITY WILL REMOVE IT AS A PRIORITY DISCHARGE UNDER SECTION 304(1) AND MEET THE ARARS. INCLUSION OF THE BIG FIVE TUNNEL DISCHARGE IN THE INDIVIDUAL CONTROL STRATEGY AND DISCHARGE CONTROL MECHANISM FOR TREATMENT OF THE ARGO TUNNEL DISCHARGE WILL MEET REGULATORY REQUIREMENTS. THE INTERIM WAIVER WILL NO LONGER BE NECESSARY AND WILL BE WITHDRAWN. THEREFORE, ADDRESSING THE BIG FIVE DISCHARGE AS AN ELEMENT OF THE FINAL RESPONSE ACTION AT THE SITE WITH RESPECT TO ELIMINATING THE TOXICITY OF THIS DISCHARGE TO HUMAN HEALTH AND THE ENVIRONMENT, AS DISCUSSED IN THIS EXPLANATION OF SIGNIFICANT DIFFERENCE (ESD), IS APPROPRIATE.

A ROD ADDRESSING OU 3 WAS COMPLETED IN SEPTEMBER OF 1991. AN ESD PERTAINING TO THE OU3 ROD WAS COMPLETED IN JUNE OF 2005.

OU4:

OU4 WAS DESIGNATED IN 1999 AND INCLUDES SEDIMENT CONTROL ON THE NORTH FORK OF CLEAR CREEK AS WELL AND TRIBUTARIES TO THE NORTH FORK, WASTE ROCK PILES IN VIRGINIA CANYON, CLEAR CREEK MAINSTEM WASTE ROCK PILES, AN ON-SITE REPOSITORY TO CONSOLIDATE MINE WASTE ROCK, AND THE NORTH FORK AND MAIN STEM CLEAR CREEK RI/FS.

THE CLEAR CREEK/CENTRAL CITY SUPERFUND STUDY AREA COVERS THE APPROXIMATELY 400 SQUARE-MILE CLEAR

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CREEK WATERSHED, LOCATED IN THE FRONT RANGE OF THE COLORADO ROCKY MOUNTAINS. THE BASIN OF THE NORTH FORK OF CLEAR CREEK ENCOMPASSES APPROXIMATELY 60 SQUARE MILES OF THIS STUDY AREA, AND HAS BEEN DESIGNATED AS OPERABLE UNIT (OU) 4 OF THE CLEAR CREEK/CENTRAL CITY SUPERFUND SITE. OU 4 ENCOMPASSES THE NORTH FORK OF CLEAR CREEK AND ITS TRIBUTARIES AND THE MAIN STEM OF CLEAR CREEK FROM THE CONFLUENCE WITH THE NORTH FORK TO THE CITY OF GOLDEN, COLORADO. OU 4 CONSISTS OF HIGHLY VARIABLE MOUNTAINOUS TERRAIN CHARACTERIZED BY STEEP-WALLED CANYONS AND NARROW VALLEY FLOORS. CITIES WITHIN OU 4 ARE CENTRAL CITY AND BLACK HAWK. THESE CITIES HAVE EXPERIENCED ACCELERATED DEVELOPMENT SINCE THE INTRODUCTION OF GAMBLING IN 1991.

ELEVATED METALS CONCENTRATIONS ARE THE RISK DRIVERS WITHIN OU 4. THE METALS, OR CONTAMINANTS, OF CONCERN FOR AQUATIC LIFE ARE ZINC, COPPER, CADMIUM, AND MANGANESE, AND OF CONCERN FOR HUMAN HEALTH ARE LEAD AND ARSENIC. THE MAJORITY OF THESE METALS POSE ACUTE OR CHRONIC THREATS TO AQUATIC ORGANISMS WHICH ARE MORE SENSITIVE TO THEIR HIGH CONCENTRATIONS THAN ARE HUMANS. THE RISK TO HUMAN HEALTH DUE TO EXPOSURE TO MINE WASTES IS LOW, BUT IS ASSOCIATED WITH INGESTION OF WASTE ROCK AND INHALATION OF WASTE ROCK DUST. ECOLOGICAL RISK IS THE PRIMARY DRIVER OF CLEANUP ACTIONS AT OU 4 AND IS MAINLY ASSOCIATED WITH DIRECT EXPOSURE TO METALS-CONTAMINATED SURFACE WATER.

IN ADDITION TO THE DELETERIOUS EFFECTS OF MINE WASTES, THE AREAS OF POOR FISH HABITAT ALONG THE NORTH FORK ALSO THREATEN THE SURVIVAL OF TROUT SPECIES. IN SOME PLACES THE VALLEY THROUGH WHICH THE NORTH FORK FLOWS HAS BEEN SEVERELY NARROWED DUE TO HISTORIC MINING AND RECENT DEVELOPMENT. THIS HAS RESULTED IN THE CHANNELIZATION OF THE RIVER AND A DECREASE IN THE AMOUNT OF POOLS, RIFFLES, AND STREAM BANK VEGETATION THAT IS NECESSARY TO PROVIDE THRIVING FISH HABITAT.

CURRENT LAND USES WITHIN OU 4 INCLUDE RESIDENTIAL, RECREATION, AND TO A LIMITED EXTENT, AGRICULTURE AND RANCHING. THE CLEAR CREEK WATERSHED IS A POPULAR OUTDOOR RECREATION AREA FOR RESIDENTS ALONG THE FRONT RANGE. POPULAR ACTIVITIES INCLUDE HIKING, CAMPING, AND ALL-TERRAIN VEHICLE (ATV) RIDING. THE MAJORITY OF THE LAND WITHIN OU 4, NOT INCLUDING THE BLACK HAWK AND CENTRAL CITY AREAS, HAS A FORESTRY ZONING DESIGNATION, WHICH IS A BROAD DESIGNATION THAT DOES NOT PRECLUDE DEVELOPMENT OF THE LAND FOR RESIDENTIAL OR COMMERCIAL USE. BASED ON DISCUSSIONS WITH GILPIN COUNTY PLANNING OFFICIALS, FUTURE LAND USES WITHIN OU 4 COULD POTENTIALLY INCLUDE RESIDENTIAL AND COMMERCIAL USE IN ADDITION TO THE CURRENT USES OF THE LAND.

THE CLEAR CREEK WATERSHED IS A POPULAR RECREATION DESTINATION. RECREATIONAL SURFACE WATER USES WITHIN THE NORTH FORK BASIN (OU 4) INCLUDE FISHING, SWIMMING, GOLD PANNING, AND RECREATIONAL MINING. BASED ON THE RELATIVE LOW FLOW OF THE NORTH FORK COMPARED TO THE MAIN STEM OF CLEAR CREEK, AS WELL AS THE CONFINING NATURE OF THE VALLEY THROUGH WHICH THE NORTH FORK FLOWS, FUTURE USES OF THE SURFACE WATER WITHIN OU 4 ARE NOT EXPECTED TO CHANGE.

GROUND WATER WITHIN OU 4 IS CURRENTLY USED AS A DRINKING WATER SOURCE FOR RESIDENTS WHO LIVE OUTSIDE OF THE BLACK HAWK OR CENTRAL CITY BOUNDARIES WHERE CONNECTIONS TO MUNICIPAL WATER SUPPLIES ARE NOT FEASIBLE. THESE RESIDENTS ARE SCATTERED THROUGHOUT THE OU 4 BASIN OR CLUSTERED IN VERY SMALL TOWNS WITHIN NEVADA AND RUSSELL GULCHES. UNCONFINED BEDROCK AQUIFERS SUPPLY THIS DRINKING WATER. THESE AQUIFERS OFTEN OCCUR IN HIGHLY FRACTURED BEDROCK ZONES, MAKING GROUND WATER CHARACTERIZATION DIFFICULT. FUTURE USES OF GROUND WATER AS A DRINKING WATER SOURCE MAY INCREASE IF THE POPULATION UTILIZING GROUND WATER WELLS INCREASES. HOWEVER, THE TYPES OF GROUND WATER USE WITHIN THE STUDY AREA ARE NOT EXPECTED TO CHANGE IN THE FUTURE.

A RECORD OF DECISION ADDRESSING OU 4 WAS COMPLETED IN SEPTEMBER 2004.

WHILE NOT DIRECTLY ADDRESSED BY THE OUS 3 AND 4 RODS, CDPHE AND EPA HAD BEEN CONSIDERING THE OPTION OF CONSTRUCTING A MINE WASTE REPOSITORY TO BE USED FOR RELOCATING MINE WASTE PILE MATERIAL AND WATER

Superfund Enterprise Management System (SEMS)

TREATMENT PLANT SOLIDS GENERATED BY CENTRAL CITY/CLEAR CREEK CERCLA RESPONSE PROJECTS SUCH AS THE ARGO TUNNEL TREATMENT PLANT IN IDAHO SPRINGS. THE OU 4 ROD DISCUSSES THE OPTION OF RELOCATING WASTE PILES AND WATER TREATMENT SOLIDS TO AN ON-SITE REPOSITORY AS PART OF THE SELECTED REMEDIAL OPTION, BUT THE ROD DOES NOT EXPLICITLY INCLUDE CONSTRUCTION OF A REPOSITORY AS A SELECTED REMEDIAL ACTION COMPONENT. THE CDPHE AND EPA NOW ADD THE REPOSITORY COMPONENT TO THE PREVIOUSLY SELECTED REMEDIES TO PROVIDE AN ADDITIONAL PROTECTIVE, EFFICIENT AND EFFECTIVE WAY OF ADDRESSING MINE WASTES AND DISPOSING OF WATER TREATMENT PLANT SOLIDS.

A ROD AMENDMENT ADDRESSING OU 4 AND OU 3 WAS COMPLETED IN SEPTEMBER OF 2006.

SITE HISTORY - NO SITE HISTORY INFORMATION AVAILABLE -

ACTIONS

TYPE: **RD - REMEDIAL DESIGN**

START DATE: **09/30/1991**

COMPLETION DATE: **05/02/2005**

ACTION TYPE DEFINITION:

THE PROCESS OF FULLY DETAILING AND SPECIFYING THE SELECTED REMEDY IDENTIFIED IN THE ROD OR EDD.

TYPE: **RD - REMEDIAL DESIGN**

START DATE: **09/30/1991**

COMPLETION DATE: **09/09/2002**

ACTION TYPE DEFINITION:

THE PROCESS OF FULLY DETAILING AND SPECIFYING THE SELECTED REMEDY IDENTIFIED IN THE ROD OR EDD.

TYPE: **RD - REMEDIAL DESIGN**

START DATE: **09/30/1991**

COMPLETION DATE: **09/28/2005**

ACTION TYPE DEFINITION:

THE PROCESS OF FULLY DETAILING AND SPECIFYING THE SELECTED REMEDY IDENTIFIED IN THE ROD OR EDD.

TYPE: **RD - REMEDIAL DESIGN**

START DATE: **04/01/2005**

COMPLETION DATE: **09/29/2006**

ACTION TYPE DEFINITION:

THE PROCESS OF FULLY DETAILING AND SPECIFYING THE SELECTED REMEDY IDENTIFIED IN THE ROD OR EDD.

TYPE: **RD - REMEDIAL DESIGN**

START DATE: **09/21/1995**

COMPLETION DATE: **09/29/2006**

ACTION TYPE DEFINITION:

THE PROCESS OF FULLY DETAILING AND SPECIFYING THE SELECTED REMEDY IDENTIFIED IN THE ROD OR EDD.

TYPE: **RD - REMEDIAL DESIGN**

START DATE: **09/21/1995**

COMPLETION DATE: **05/21/1999**

ACTION TYPE DEFINITION:

THE PROCESS OF FULLY DETAILING AND SPECIFYING THE SELECTED REMEDY IDENTIFIED IN THE ROD OR EDD.

Superfund Enterprise Management System (SEMS)

TYPE: **RD - REMEDIAL DESIGN**

START DATE: **09/30/1991**

COMPLETION DATE: **09/22/2003**

ACTION TYPE DEFINITION:

THE PROCESS OF FULLY DETAILING AND SPECIFYING THE SELECTED REMEDY IDENTIFIED IN THE ROD OR EDD.

TYPE: **RD - REMEDIAL DESIGN**

START DATE: **04/12/2010**

COMPLETION DATE: **06/26/2012**

ACTION TYPE DEFINITION:

THE PROCESS OF FULLY DETAILING AND SPECIFYING THE SELECTED REMEDY IDENTIFIED IN THE ROD OR EDD.

TYPE: **RD - REMEDIAL DESIGN**

START DATE: **09/21/1995**

COMPLETION DATE: **08/12/2002**

ACTION TYPE DEFINITION:

THE PROCESS OF FULLY DETAILING AND SPECIFYING THE SELECTED REMEDY IDENTIFIED IN THE ROD OR EDD.

TYPE: **RD - REMEDIAL DESIGN**

START DATE: **09/30/1991**

COMPLETION DATE: **09/14/2004**

ACTION TYPE DEFINITION:

THE PROCESS OF FULLY DETAILING AND SPECIFYING THE SELECTED REMEDY IDENTIFIED IN THE ROD OR EDD.

TYPE: **RD - REMEDIAL DESIGN**

START DATE: **09/30/1991**

COMPLETION DATE: **09/30/2004**

ACTION TYPE DEFINITION:

THE PROCESS OF FULLY DETAILING AND SPECIFYING THE SELECTED REMEDY IDENTIFIED IN THE ROD OR EDD.

TYPE: **RD - REMEDIAL DESIGN**

START DATE: **09/30/1991**

COMPLETION DATE: **09/25/2008**

ACTION TYPE DEFINITION:

THE PROCESS OF FULLY DETAILING AND SPECIFYING THE SELECTED REMEDY IDENTIFIED IN THE ROD OR EDD.

TYPE: **RD - REMEDIAL DESIGN**

START DATE: **04/01/2005**

COMPLETION DATE: **09/27/2012**

ACTION TYPE DEFINITION:

THE PROCESS OF FULLY DETAILING AND SPECIFYING THE SELECTED REMEDY IDENTIFIED IN THE ROD OR EDD.

TYPE: **RD - REMEDIAL DESIGN**

START DATE: **04/01/2005**

COMPLETION DATE: **03/31/2011**

ACTION TYPE DEFINITION:

Superfund Enterprise Management System (SEMS)

THE PROCESS OF FULLY DETAILING AND SPECIFYING THE SELECTED REMEDY IDENTIFIED IN THE ROD OR EDD.

TYPE: RD - REMEDIAL DESIGN

START DATE: 03/13/2012

COMPLETION DATE: NOT REPORTED

ACTION TYPE DEFINITION:

THE PROCESS OF FULLY DETAILING AND SPECIFYING THE SELECTED REMEDY IDENTIFIED IN THE ROD OR EDD.

TYPE: RD - REMEDIAL DESIGN

START DATE: 03/13/2012

COMPLETION DATE: 09/30/2013

ACTION TYPE DEFINITION:

THE PROCESS OF FULLY DETAILING AND SPECIFYING THE SELECTED REMEDY IDENTIFIED IN THE ROD OR EDD.

TYPE: RI - REMEDIAL INVESTIGATION

START DATE: 09/23/1983

COMPLETION DATE: 04/09/1987

ACTION TYPE DEFINITION:

AN INVESTIGATION INTENDED TO GATHER THE DATA NECESSARY TO: (1) DETERMINE THE NATURE AND EXTENT OF PROBLEMS AT THE SITE; (2) ESTABLISH CLEANUP CRITERIA FOR THE SITE; (3) IDENTIFY PRELIMINARY ALTERNATIVE REMEDIAL ACTIONS; AND (4) SUPPORT THE TECHNICAL AND COST ANALYSES OF THE ALTERNATIVES.

TYPE: RI - REMEDIAL INVESTIGATION

START DATE: 06/15/1988

COMPLETION DATE: 09/21/1990

ACTION TYPE DEFINITION:

AN INVESTIGATION INTENDED TO GATHER THE DATA NECESSARY TO: (1) DETERMINE THE NATURE AND EXTENT OF PROBLEMS AT THE SITE; (2) ESTABLISH CLEANUP CRITERIA FOR THE SITE; (3) IDENTIFY PRELIMINARY ALTERNATIVE REMEDIAL ACTIONS; AND (4) SUPPORT THE TECHNICAL AND COST ANALYSES OF THE ALTERNATIVES.

TYPE: RD - REMEDIAL DESIGN

START DATE: 09/30/1991

COMPLETION DATE: 09/25/2008

ACTION TYPE DEFINITION:

THE PROCESS OF FULLY DETAILING AND SPECIFYING THE SELECTED REMEDY IDENTIFIED IN THE ROD OR EDD.

TYPE: RA - REMEDIAL ACTION - LONG TERM ACTION

START DATE: 09/29/1993

COMPLETION DATE: 11/17/2003

ACTION TYPE DEFINITION:

THE IMPLEMENTATION OF A PERMANENT RESOLUTION TO ADDRESS A RELEASE OR POTENTIAL RELEASE OF A HAZARDOUS SUBSTANCE FROM A SITE.

TYPE: RN - REMOVAL NEGOTIATIONS

START DATE: 08/28/1995

COMPLETION DATE: 08/21/1996

Superfund Enterprise Management System (SEMS)

ACTION TYPE DEFINITION:

REMOVAL NEGOTIATIONS ARE DEFINED AS DISCUSSIONS BETWEEN EPA AND THE POTENTIALLY RESPONSIBLE PARTIES (PRPS) ON THE LIABILITY FOR AND CONDUCT OF A REMOVAL.

TYPE: **RO - RECORD OF DECISION**

START DATE: **NOT REPORTED**

COMPLETION DATE: **09/30/1987**

ACTION TYPE DEFINITION:

THE FINAL RECORD OF DECISION (ROD) IS SIGNED BY THE APPROPRIATE AGENCY INDICATING THAT THE AGENCY HAS CHOSEN THE REMEDY FOR SITE REMEDIATION. ROD SIGNATURE IS SIGNIFIED BY THE COMPLETE DATE.

TYPE: **RD - REMEDIAL DESIGN**

START DATE: **04/01/2005**

COMPLETION DATE: **08/21/2009**

ACTION TYPE DEFINITION:

THE PROCESS OF FULLY DETAILING AND SPECIFYING THE SELECTED REMEDY IDENTIFIED IN THE ROD OR EDD.

TYPE: **RA - REMEDIAL ACTION**

START DATE: **09/28/2006**

COMPLETION DATE: **NOT REPORTED**

ACTION TYPE DEFINITION:

THE IMPLEMENTATION OF A PERMANENT RESOLUTION TO ADDRESS A RELEASE OR POTENTIAL RELEASE OF A HAZARDOUS SUBSTANCE FROM A SITE.

TYPE: **TA - TECHNICAL ASSISTANCE**

START DATE: **05/31/1994**

COMPLETION DATE: **06/16/1994**

ACTION TYPE DEFINITION:

PARTICIPATION IN THE CONDUCT OF FUND-FINANCED REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS).

TYPE: **RO - RECORD OF DECISION**

START DATE: **NOT REPORTED**

COMPLETION DATE: **03/31/1988**

ACTION TYPE DEFINITION:

THE FINAL RECORD OF DECISION (ROD) IS SIGNED BY THE APPROPRIATE AGENCY INDICATING THAT THE AGENCY HAS CHOSEN THE REMEDY FOR SITE REMEDIATION. ROD SIGNATURE IS SIGNIFIED BY THE COMPLETE DATE.

TYPE: **RA - REMEDIAL ACTION**

START DATE: **09/30/1992**

COMPLETION DATE: **02/12/1997**

ACTION TYPE DEFINITION:

THE IMPLEMENTATION OF A PERMANENT RESOLUTION TO ADDRESS A RELEASE OR POTENTIAL RELEASE OF A HAZARDOUS SUBSTANCE FROM A SITE.

TYPE: **RA - REMEDIAL ACTION**

START DATE: **09/29/1993**

Superfund Enterprise Management System (SEMS)

COMPLETION DATE: 01/06/1995

ACTION TYPE DEFINITION:

THE IMPLEMENTATION OF A PERMANENT RESOLUTION TO ADDRESS A RELEASE OR POTENTIAL RELEASE OF A HAZARDOUS SUBSTANCE FROM A SITE.

TYPE: RA - REMEDIAL ACTION

START DATE: 09/29/1993

COMPLETION DATE: 09/28/1999

ACTION TYPE DEFINITION:

THE IMPLEMENTATION OF A PERMANENT RESOLUTION TO ADDRESS A RELEASE OR POTENTIAL RELEASE OF A HAZARDOUS SUBSTANCE FROM A SITE.

TYPE: RA - REMEDIAL ACTION

START DATE: 09/29/1993

COMPLETION DATE: 05/09/2013

ACTION TYPE DEFINITION:

THE IMPLEMENTATION OF A PERMANENT RESOLUTION TO ADDRESS A RELEASE OR POTENTIAL RELEASE OF A HAZARDOUS SUBSTANCE FROM A SITE.

TYPE: RA - REMEDIAL ACTION

START DATE: 09/29/1993

COMPLETION DATE: NOT REPORTED

ACTION TYPE DEFINITION:

THE IMPLEMENTATION OF A PERMANENT RESOLUTION TO ADDRESS A RELEASE OR POTENTIAL RELEASE OF A HAZARDOUS SUBSTANCE FROM A SITE.

TYPE: RA - REMEDIAL ACTION

START DATE: 09/15/1997

COMPLETION DATE: 08/25/2000

ACTION TYPE DEFINITION:

THE IMPLEMENTATION OF A PERMANENT RESOLUTION TO ADDRESS A RELEASE OR POTENTIAL RELEASE OF A HAZARDOUS SUBSTANCE FROM A SITE.

TYPE: RA - REMEDIAL ACTION - LONG TERM ACTION

START DATE: 09/28/2006

COMPLETION DATE: 09/25/2008

ACTION TYPE DEFINITION:

THE IMPLEMENTATION OF A PERMANENT RESOLUTION TO ADDRESS A RELEASE OR POTENTIAL RELEASE OF A HAZARDOUS SUBSTANCE FROM A SITE.

TYPE: RA - REMEDIAL ACTION - LONG TERM ACTION

START DATE: 12/20/1999

COMPLETION DATE: 05/22/2003

ACTION TYPE DEFINITION:

THE IMPLEMENTATION OF A PERMANENT RESOLUTION TO ADDRESS A RELEASE OR POTENTIAL RELEASE OF A HAZARDOUS SUBSTANCE FROM A SITE.

Superfund Enterprise Management System (SEMS)

TYPE: RA - REMEDIAL ACTION - LONG TERM ACTION

START DATE: 05/17/2005

COMPLETION DATE: 03/31/2006

ACTION TYPE DEFINITION:

THE IMPLEMENTATION OF A PERMANENT RESOLUTION TO ADDRESS A RELEASE OR POTENTIAL RELEASE OF A HAZARDOUS SUBSTANCE FROM A SITE.

TYPE: RD - REMEDIAL DESIGN

START DATE: 06/27/1988

COMPLETION DATE: 03/29/1989

ACTION TYPE DEFINITION:

THE PROCESS OF FULLY DETAILING AND SPECIFYING THE SELECTED REMEDY IDENTIFIED IN THE ROD OR EDD.

TYPE: RA - REMEDIAL ACTION

START DATE: 09/28/2006

COMPLETION DATE: 06/14/2011

ACTION TYPE DEFINITION:

THE IMPLEMENTATION OF A PERMANENT RESOLUTION TO ADDRESS A RELEASE OR POTENTIAL RELEASE OF A HAZARDOUS SUBSTANCE FROM A SITE.

TYPE: RA - REMEDIAL ACTION

START DATE: 05/17/2005

COMPLETION DATE: 03/31/2006

ACTION TYPE DEFINITION:

THE IMPLEMENTATION OF A PERMANENT RESOLUTION TO ADDRESS A RELEASE OR POTENTIAL RELEASE OF A HAZARDOUS SUBSTANCE FROM A SITE.

TYPE: RA - REMEDIAL ACTION

START DATE: 09/28/2006

COMPLETION DATE: 02/26/2009

ACTION TYPE DEFINITION:

THE IMPLEMENTATION OF A PERMANENT RESOLUTION TO ADDRESS A RELEASE OR POTENTIAL RELEASE OF A HAZARDOUS SUBSTANCE FROM A SITE.

TYPE: RA - REMEDIAL ACTION - LONG TERM ACTION

START DATE: 09/27/2013

COMPLETION DATE: NOT REPORTED

ACTION TYPE DEFINITION:

THE IMPLEMENTATION OF A PERMANENT RESOLUTION TO ADDRESS A RELEASE OR POTENTIAL RELEASE OF A HAZARDOUS SUBSTANCE FROM A SITE.

TYPE: RA - REMEDIAL ACTION

START DATE: 09/28/2006

COMPLETION DATE: 04/29/2010

ACTION TYPE DEFINITION:

Superfund Enterprise Management System (SEMS)

THE IMPLEMENTATION OF A PERMANENT RESOLUTION TO ADDRESS A RELEASE OR POTENTIAL RELEASE OF A HAZARDOUS SUBSTANCE FROM A SITE.

TYPE: RA - REMEDIAL ACTION

START DATE: **04/07/2008**

COMPLETION DATE: **NOT REPORTED**

ACTION TYPE DEFINITION:

THE IMPLEMENTATION OF A PERMANENT RESOLUTION TO ADDRESS A RELEASE OR POTENTIAL RELEASE OF A HAZARDOUS SUBSTANCE FROM A SITE.

TYPE: RA - REMEDIAL ACTION

START DATE: **06/02/2008**

COMPLETION DATE: **NOT REPORTED**

ACTION TYPE DEFINITION:

THE IMPLEMENTATION OF A PERMANENT RESOLUTION TO ADDRESS A RELEASE OR POTENTIAL RELEASE OF A HAZARDOUS SUBSTANCE FROM A SITE.

TYPE: RA - REMEDIAL ACTION - LONG TERM ACTION

START DATE: **02/23/2012**

COMPLETION DATE: **NOT REPORTED**

ACTION TYPE DEFINITION:

THE IMPLEMENTATION OF A PERMANENT RESOLUTION TO ADDRESS A RELEASE OR POTENTIAL RELEASE OF A HAZARDOUS SUBSTANCE FROM A SITE.

TYPE: RD - REMEDIAL DESIGN

START DATE: **06/15/1988**

COMPLETION DATE: **09/30/1991**

ACTION TYPE DEFINITION:

THE PROCESS OF FULLY DETAILING AND SPECIFYING THE SELECTED REMEDY IDENTIFIED IN THE ROD OR EDD.

TYPE: RA - REMEDIAL ACTION - LONG TERM ACTION

START DATE: **08/04/2005**

COMPLETION DATE: **09/28/2005**

ACTION TYPE DEFINITION:

THE IMPLEMENTATION OF A PERMANENT RESOLUTION TO ADDRESS A RELEASE OR POTENTIAL RELEASE OF A HAZARDOUS SUBSTANCE FROM A SITE.

TYPE: UA - UNILATERAL ADMIN ORDER

START DATE: **NOT REPORTED**

COMPLETION DATE: **07/15/1994**

ACTION TYPE DEFINITION:

ADMINISTRATIVE ORDER ISSUED BY EPA UNILATERALLY (UNDER SECTION 106 OF SARA). UNILATERAL ORDERS CAN COMPEL POTENTIALLY RESPONSIBLE PARTIES (PRPS) TO CONDUCT REMOVAL, REMEDIAL INVESTIGATION/FEASIBILITY STUDY, REMEDIAL DESIGN/REMEDIAL ACTION, AND MAY INCLUDE COST RECOVERY. COMMONLY ABBREVIATED UAO.

TYPE: TA - TECHNICAL ASSISTANCE

Superfund Enterprise Management System (SEMS)

START DATE: **12/30/1990**

COMPLETION DATE: **09/30/1991**

ACTION TYPE DEFINITION:

PARTICIPATION IN THE CONDUCT OF FUND-FINANCED REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS).

TYPE: **TA - TECHNICAL ASSISTANCE**

START DATE: **12/19/1989**

COMPLETION DATE: **01/09/1997**

ACTION TYPE DEFINITION:

PARTICIPATION IN THE CONDUCT OF FUND-FINANCED REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS).

TYPE: **TA - TECHNICAL ASSISTANCE**

START DATE: **12/27/1990**

COMPLETION DATE: **NOT REPORTED**

ACTION TYPE DEFINITION:

PARTICIPATION IN THE CONDUCT OF FUND-FINANCED REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS).

TYPE: **TA - TECHNICAL ASSISTANCE**

START DATE: **03/04/1991**

COMPLETION DATE: **06/30/1994**

ACTION TYPE DEFINITION:

PARTICIPATION IN THE CONDUCT OF FUND-FINANCED REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS).

TYPE: **TA - TECHNICAL ASSISTANCE**

START DATE: **08/02/1994**

COMPLETION DATE: **07/29/1996**

ACTION TYPE DEFINITION:

PARTICIPATION IN THE CONDUCT OF FUND-FINANCED REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS).

TYPE: **TA - TECHNICAL ASSISTANCE**

START DATE: **09/26/1994**

COMPLETION DATE: **09/30/1999**

ACTION TYPE DEFINITION:

PARTICIPATION IN THE CONDUCT OF FUND-FINANCED REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS).

TYPE: **TA - TECHNICAL ASSISTANCE**

START DATE: **06/22/1988**

COMPLETION DATE: **01/09/1997**

ACTION TYPE DEFINITION:

PARTICIPATION IN THE CONDUCT OF FUND-FINANCED REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS).

TYPE: **TA - TECHNICAL ASSISTANCE**

START DATE: **11/02/1995**

COMPLETION DATE: **05/30/2003**

ACTION TYPE DEFINITION:

PARTICIPATION IN THE CONDUCT OF FUND-FINANCED REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS).

Superfund Enterprise Management System (SEMS)

TYPE: **TA - TECHNICAL ASSISTANCE**

START DATE: **06/05/1997**

COMPLETION DATE: **09/30/2002**

ACTION TYPE DEFINITION:

PARTICIPATION IN THE CONDUCT OF FUND-FINANCED REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS).

TYPE: **TA - TECHNICAL ASSISTANCE**

START DATE: **06/27/1988**

COMPLETION DATE: **01/09/1997**

ACTION TYPE DEFINITION:

PARTICIPATION IN THE CONDUCT OF FUND-FINANCED REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS).

TYPE: **TG - TECHNICAL ASSISTANCE GRANT**

START DATE: **09/23/1994**

COMPLETION DATE: **05/18/2001**

ACTION TYPE DEFINITION:

A GRANT OF UP TO \$50,000 PROVIDED UNDER SARA TO A COMMUNITY FOR TECHNICAL ASSISTANCE IN DEALING WITH SUPERFUND ISSUES AT A NATIONAL PRIORITY LIST (NPL) SITE.

TYPE: **TA - TECHNICAL ASSISTANCE**

START DATE: **07/15/1986**

COMPLETION DATE: **01/18/1994**

ACTION TYPE DEFINITION:

PARTICIPATION IN THE CONDUCT OF FUND-FINANCED REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS).

TYPE: **UA - UNILATERAL ADMIN ORDER**

START DATE: **NOT REPORTED**

COMPLETION DATE: **06/02/1995**

ACTION TYPE DEFINITION:

ADMINISTRATIVE ORDER ISSUED BY EPA UNILATERALLY (UNDER SECTION 106 OF SARA). UNILATERAL ORDERS CAN COMPEL POTENTIALLY RESPONSIBLE PARTIES (PRPS) TO CONDUCT REMOVAL, REMEDIAL INVESTIGATION/FEASIBILITY STUDY, REMEDIAL DESIGN/REMEDIAL ACTION, AND MAY INCLUDE COST RECOVERY. COMMONLY ABBREVIATED UAO.

TYPE: **UA - UNILATERAL ADMIN ORDER**

START DATE: **NOT REPORTED**

COMPLETION DATE: **06/02/1995**

ACTION TYPE DEFINITION:

ADMINISTRATIVE ORDER ISSUED BY EPA UNILATERALLY (UNDER SECTION 106 OF SARA). UNILATERAL ORDERS CAN COMPEL POTENTIALLY RESPONSIBLE PARTIES (PRPS) TO CONDUCT REMOVAL, REMEDIAL INVESTIGATION/FEASIBILITY STUDY, REMEDIAL DESIGN/REMEDIAL ACTION, AND MAY INCLUDE COST RECOVERY. COMMONLY ABBREVIATED UAO.

TYPE: **UA - UNILATERAL ADMIN ORDER**

START DATE: **NOT REPORTED**

COMPLETION DATE: **09/19/1997**

ACTION TYPE DEFINITION:

Superfund Enterprise Management System (SEMS)

ADMINISTRATIVE ORDER ISSUED BY EPA UNILATERALLY (UNDER SECTION 106 OF SARA). UNILATERAL ORDERS CAN COMPEL POTENTIALLY RESPONSIBLE PARTIES (PRPS) TO CONDUCT REMOVAL, REMEDIAL INVESTIGATION/FEASIBILITY STUDY, REMEDIAL DESIGN/REMEDIAL ACTION, AND MAY INCLUDE COST RECOVERY. COMMONLY ABBREVIATED UAO.

TYPE: **UA - UNILATERAL ADMIN ORDER**

START DATE: **NOT REPORTED**

COMPLETION DATE: **09/05/1997**

ACTION TYPE DEFINITION:

ADMINISTRATIVE ORDER ISSUED BY EPA UNILATERALLY (UNDER SECTION 106 OF SARA). UNILATERAL ORDERS CAN COMPEL POTENTIALLY RESPONSIBLE PARTIES (PRPS) TO CONDUCT REMOVAL, REMEDIAL INVESTIGATION/FEASIBILITY STUDY, REMEDIAL DESIGN/REMEDIAL ACTION, AND MAY INCLUDE COST RECOVERY. COMMONLY ABBREVIATED UAO.

TYPE: **UA - UNILATERAL ADMIN ORDER**

START DATE: **NOT REPORTED**

COMPLETION DATE: **09/05/1997**

ACTION TYPE DEFINITION:

ADMINISTRATIVE ORDER ISSUED BY EPA UNILATERALLY (UNDER SECTION 106 OF SARA). UNILATERAL ORDERS CAN COMPEL POTENTIALLY RESPONSIBLE PARTIES (PRPS) TO CONDUCT REMOVAL, REMEDIAL INVESTIGATION/FEASIBILITY STUDY, REMEDIAL DESIGN/REMEDIAL ACTION, AND MAY INCLUDE COST RECOVERY. COMMONLY ABBREVIATED UAO.

TYPE: **UA - UNILATERAL ADMIN ORDER**

START DATE: **NOT REPORTED**

COMPLETION DATE: **09/05/1997**

ACTION TYPE DEFINITION:

ADMINISTRATIVE ORDER ISSUED BY EPA UNILATERALLY (UNDER SECTION 106 OF SARA). UNILATERAL ORDERS CAN COMPEL POTENTIALLY RESPONSIBLE PARTIES (PRPS) TO CONDUCT REMOVAL, REMEDIAL INVESTIGATION/FEASIBILITY STUDY, REMEDIAL DESIGN/REMEDIAL ACTION, AND MAY INCLUDE COST RECOVERY. COMMONLY ABBREVIATED UAO.

TYPE: **UA - UNILATERAL ADMIN ORDER**

START DATE: **NOT REPORTED**

COMPLETION DATE: **09/19/1997**

ACTION TYPE DEFINITION:

ADMINISTRATIVE ORDER ISSUED BY EPA UNILATERALLY (UNDER SECTION 106 OF SARA). UNILATERAL ORDERS CAN COMPEL POTENTIALLY RESPONSIBLE PARTIES (PRPS) TO CONDUCT REMOVAL, REMEDIAL INVESTIGATION/FEASIBILITY STUDY, REMEDIAL DESIGN/REMEDIAL ACTION, AND MAY INCLUDE COST RECOVERY. COMMONLY ABBREVIATED UAO.

TYPE: **WP - REMEDIAL INVESTIGATION/FEASIBILITY STUDY WORKPLAN APPROVAL BY HQ**

START DATE: **02/14/1983**

COMPLETION DATE: **07/15/1985**

ACTION TYPE DEFINITION:

APPROVAL OF THE REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) WORKPLAN, WHICH IS A DESCRIPTION OF THE TASKS AND RESOURCES PLANNED FOR THE RI/FS.

TYPE: **RV - REMOVAL - EMERGENCY**

START DATE: **08/01/1991**

COMPLETION DATE: **09/14/1991**

Superfund Enterprise Management System (SEMS)

ACTION TYPE DEFINITION:

RESPONSE ACTION THAT REQUIRES EXPEDITIOUS ATTENTION TO REDUCE IMMINENT AND SUBSTANTIAL DANGERS TO HUMAN HEALTH, WELFARE, OR THE ENVIRONMENT OR AN EMERGENCY RESPONSE REQUIRED WITHIN HOURS OR DAYS TO ADDRESS ACUTE SITUATIONS INVOLVING ACTUAL OR POTENTIAL THREAT TO HUMAN HEALTH, THE ENVIRONMENT, OR REAL OR PERSONAL PROPERTY DUE TO THE RELEASE OF A HAZARDOUS SUBSTANCE. CHARACTERIZATION OF A REMOVAL ACTION AS REMOVAL, NOT IMMEDIATE REMOVAL OR PLANNED REMOVAL, STARTED AT THE BEGINNING OF FY 1987. THIS CODE NOW TAKES THE PLACE OF IMMEDIATE REMOVAL (IR) AND PLANNED REMOVAL (PR).

TYPE: TA - TECHNICAL ASSISTANCE

START DATE: 07/11/2011

COMPLETION DATE: NOT REPORTED

ACTION TYPE DEFINITION:

PARTICIPATION IN THE CONDUCT OF FUND-FINANCED REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS).

TYPE: RA - REMEDIAL ACTION

START DATE: 03/29/1989

COMPLETION DATE: 09/30/1991

ACTION TYPE DEFINITION:

THE IMPLEMENTATION OF A PERMANENT RESOLUTION TO ADDRESS A RELEASE OR POTENTIAL RELEASE OF A HAZARDOUS SUBSTANCE FROM A SITE.

TYPE: RO - RECORD OF DECISION

START DATE: NOT REPORTED

COMPLETION DATE: 09/29/2004

ACTION TYPE DEFINITION:

THE FINAL RECORD OF DECISION (ROD) IS SIGNED BY THE APPROPRIATE AGENCY INDICATING THAT THE AGENCY HAS CHOSEN THE REMEDY FOR SITE REMEDIATION. ROD SIGNATURE IS SIGNIFIED BY THE COMPLETE DATE.

TYPE: RP - NON-NATIONAL PRIORITIES LIST POTENTIALLY RESPONSIBLE PARTY SEARCH

START DATE: 06/30/1990

COMPLETION DATE: 09/04/1991

ACTION TYPE DEFINITION:

THE NON-NPL POTENTIALLY RESPONSIBLE PARTY (PRP) SEARCH IS TO IDENTIFY PRPS AT NON-NPL OR REMOVAL ACTION SITES.

TYPE: RP - NON-NATIONAL PRIORITIES LIST POTENTIALLY RESPONSIBLE PARTY SEARCH

START DATE: 09/04/1991

COMPLETION DATE: 01/14/1994

ACTION TYPE DEFINITION:

THE NON-NPL POTENTIALLY RESPONSIBLE PARTY (PRP) SEARCH IS TO IDENTIFY PRPS AT NON-NPL OR REMOVAL ACTION SITES.

TYPE: RS - REMOVAL ASSESSMENT

START DATE: 08/30/1990

COMPLETION DATE: 08/30/1990

ACTION TYPE DEFINITION:

Superfund Enterprise Management System (SEMS)

COLLECTING SITE CHARACTERISTICS TO DETERMINE WHETHER OR NOT A REMOVAL MUST BE PERFORMED.

TYPE: **RS - REMOVAL ASSESSMENT**

START DATE: **01/01/1991**

COMPLETION DATE: **07/02/1991**

ACTION TYPE DEFINITION:

COLLECTING SITE CHARACTERISTICS TO DETERMINE WHETHER OR NOT A REMOVAL MUST BE PERFORMED.

TYPE: **RS - REMOVAL ASSESSMENT**

START DATE: **02/18/1993**

COMPLETION DATE: **09/09/1993**

ACTION TYPE DEFINITION:

COLLECTING SITE CHARACTERISTICS TO DETERMINE WHETHER OR NOT A REMOVAL MUST BE PERFORMED.

TYPE: **RS - REMOVAL ASSESSMENT**

START DATE: **07/19/2006**

COMPLETION DATE: **08/29/2006**

ACTION TYPE DEFINITION:

COLLECTING SITE CHARACTERISTICS TO DETERMINE WHETHER OR NOT A REMOVAL MUST BE PERFORMED.

TYPE: **RS - REMOVAL ASSESSMENT**

START DATE: **04/15/2009**

COMPLETION DATE: **06/15/2010**

ACTION TYPE DEFINITION:

COLLECTING SITE CHARACTERISTICS TO DETERMINE WHETHER OR NOT A REMOVAL MUST BE PERFORMED.

TYPE: **RV - REMOVAL - EMERGENCY**

START DATE: **03/27/1987**

COMPLETION DATE: **04/29/1987**

ACTION TYPE DEFINITION:

RESPONSE ACTION THAT REQUIRES EXPEDITIOUS ATTENTION TO REDUCE IMMINENT AND SUBSTANTIAL DANGERS TO HUMAN HEALTH, WELFARE, OR THE ENVIRONMENT OR AN EMERGENCY RESPONSE REQUIRED WITHIN HOURS OR DAYS TO ADDRESS ACUTE SITUATIONS INVOLVING ACTUAL OR POTENTIAL THREAT TO HUMAN HEALTH, THE ENVIRONMENT, OR REAL OR PERSONAL PROPERTY DUE TO THE RELEASE OF A HAZARDOUS SUBSTANCE. CHARACTERIZATION OF A REMOVAL ACTION AS REMOVAL, NOT IMMEDIATE REMOVAL OR PLANNED REMOVAL, STARTED AT THE BEGINNING OF FY 1987. THIS CODE NOW TAKES THE PLACE OF IMMEDIATE REMOVAL (IR) AND PLANNED REMOVAL (PR).

TYPE: **TA - TECHNICAL ASSISTANCE**

START DATE: **09/07/1989**

COMPLETION DATE: **06/30/1994**

ACTION TYPE DEFINITION:

PARTICIPATION IN THE CONDUCT OF FUND-FINANCED REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS).

TYPE: **RV - REMOVAL - NON-TIME CRITICAL**

START DATE: **08/12/1996**

COMPLETION DATE: **11/12/1996**

Superfund Enterprise Management System (SEMS)

ACTION TYPE DEFINITION:

RESPONSE ACTION THAT REQUIRES EXPEDITIOUS ATTENTION TO REDUCE IMMINENT AND SUBSTANTIAL DANGERS TO HUMAN HEALTH, WELFARE, OR THE ENVIRONMENT OR AN EMERGENCY RESPONSE REQUIRED WITHIN HOURS OR DAYS TO ADDRESS ACUTE SITUATIONS INVOLVING ACTUAL OR POTENTIAL THREAT TO HUMAN HEALTH, THE ENVIRONMENT, OR REAL OR PERSONAL PROPERTY DUE TO THE RELEASE OF A HAZARDOUS SUBSTANCE. CHARACTERIZATION OF A REMOVAL ACTION AS REMOVAL, NOT IMMEDIATE REMOVAL OR PLANNED REMOVAL, STARTED AT THE BEGINNING OF FY 1987. THIS CODE NOW TAKES THE PLACE OF IMMEDIATE REMOVAL (IR) AND PLANNED REMOVAL (PR).

TYPE: RO - RECORD OF DECISION

START DATE: NOT REPORTED

COMPLETION DATE: 09/30/1991

ACTION TYPE DEFINITION:

THE FINAL RECORD OF DECISION (ROD) IS SIGNED BY THE APPROPRIATE AGENCY INDICATING THAT THE AGENCY HAS CHOSEN THE REMEDY FOR SITE REMEDIATION. ROD SIGNATURE IS SIGNIFIED BY THE COMPLETE DATE.

TYPE: RV - REMOVAL - EMERGENCY

START DATE: 07/20/2004

COMPLETION DATE: 04/04/2006

ACTION TYPE DEFINITION:

RESPONSE ACTION THAT REQUIRES EXPEDITIOUS ATTENTION TO REDUCE IMMINENT AND SUBSTANTIAL DANGERS TO HUMAN HEALTH, WELFARE, OR THE ENVIRONMENT OR AN EMERGENCY RESPONSE REQUIRED WITHIN HOURS OR DAYS TO ADDRESS ACUTE SITUATIONS INVOLVING ACTUAL OR POTENTIAL THREAT TO HUMAN HEALTH, THE ENVIRONMENT, OR REAL OR PERSONAL PROPERTY DUE TO THE RELEASE OF A HAZARDOUS SUBSTANCE. CHARACTERIZATION OF A REMOVAL ACTION AS REMOVAL, NOT IMMEDIATE REMOVAL OR PLANNED REMOVAL, STARTED AT THE BEGINNING OF FY 1987. THIS CODE NOW TAKES THE PLACE OF IMMEDIATE REMOVAL (IR) AND PLANNED REMOVAL (PR).

TYPE: RV - REMOVAL - TIME CRITICAL

START DATE: 05/05/2008

COMPLETION DATE: 09/19/2008

ACTION TYPE DEFINITION:

RESPONSE ACTION THAT REQUIRES EXPEDITIOUS ATTENTION TO REDUCE IMMINENT AND SUBSTANTIAL DANGERS TO HUMAN HEALTH, WELFARE, OR THE ENVIRONMENT OR AN EMERGENCY RESPONSE REQUIRED WITHIN HOURS OR DAYS TO ADDRESS ACUTE SITUATIONS INVOLVING ACTUAL OR POTENTIAL THREAT TO HUMAN HEALTH, THE ENVIRONMENT, OR REAL OR PERSONAL PROPERTY DUE TO THE RELEASE OF A HAZARDOUS SUBSTANCE. CHARACTERIZATION OF A REMOVAL ACTION AS REMOVAL, NOT IMMEDIATE REMOVAL OR PLANNED REMOVAL, STARTED AT THE BEGINNING OF FY 1987. THIS CODE NOW TAKES THE PLACE OF IMMEDIATE REMOVAL (IR) AND PLANNED REMOVAL (PR).

TYPE: RV - REMOVAL - TIME CRITICAL

START DATE: 06/15/2010

COMPLETION DATE: 09/15/2010

ACTION TYPE DEFINITION:

RESPONSE ACTION THAT REQUIRES EXPEDITIOUS ATTENTION TO REDUCE IMMINENT AND SUBSTANTIAL DANGERS TO HUMAN HEALTH, WELFARE, OR THE ENVIRONMENT OR AN EMERGENCY RESPONSE REQUIRED WITHIN HOURS OR DAYS TO ADDRESS ACUTE SITUATIONS INVOLVING ACTUAL OR POTENTIAL THREAT TO HUMAN HEALTH, THE ENVIRONMENT, OR REAL OR PERSONAL PROPERTY DUE TO THE RELEASE OF A HAZARDOUS SUBSTANCE. CHARACTERIZATION OF A REMOVAL ACTION AS REMOVAL, NOT IMMEDIATE REMOVAL OR PLANNED REMOVAL, STARTED AT THE BEGINNING OF FY 1987. THIS CODE NOW TAKES THE PLACE OF IMMEDIATE REMOVAL (IR) AND PLANNED REMOVAL (PR).

Superfund Enterprise Management System (SEMS)

TYPE: **RV - REMOVAL - EMERGENCY**

START DATE: **10/15/2011**

COMPLETION DATE: **11/15/2011**

ACTION TYPE DEFINITION:

RESPONSE ACTION THAT REQUIRES EXPEDITIOUS ATTENTION TO REDUCE IMMINENT AND SUBSTANTIAL DANGERS TO HUMAN HEALTH, WELFARE, OR THE ENVIRONMENT OR AN EMERGENCY RESPONSE REQUIRED WITHIN HOURS OR DAYS TO ADDRESS ACUTE SITUATIONS INVOLVING ACTUAL OR POTENTIAL THREAT TO HUMAN HEALTH, THE ENVIRONMENT, OR REAL OR PERSONAL PROPERTY DUE TO THE RELEASE OF A HAZARDOUS SUBSTANCE. CHARACTERIZATION OF A REMOVAL ACTION AS REMOVAL, NOT IMMEDIATE REMOVAL OR PLANNED REMOVAL, STARTED AT THE BEGINNING OF FY 1987. THIS CODE NOW TAKES THE PLACE OF IMMEDIATE REMOVAL (IR) AND PLANNED REMOVAL (PR).

TYPE: **RV - REMOVAL - EMERGENCY**

START DATE: **10/15/2011**

COMPLETION DATE: **11/15/2011**

ACTION TYPE DEFINITION:

RESPONSE ACTION THAT REQUIRES EXPEDITIOUS ATTENTION TO REDUCE IMMINENT AND SUBSTANTIAL DANGERS TO HUMAN HEALTH, WELFARE, OR THE ENVIRONMENT OR AN EMERGENCY RESPONSE REQUIRED WITHIN HOURS OR DAYS TO ADDRESS ACUTE SITUATIONS INVOLVING ACTUAL OR POTENTIAL THREAT TO HUMAN HEALTH, THE ENVIRONMENT, OR REAL OR PERSONAL PROPERTY DUE TO THE RELEASE OF A HAZARDOUS SUBSTANCE. CHARACTERIZATION OF A REMOVAL ACTION AS REMOVAL, NOT IMMEDIATE REMOVAL OR PLANNED REMOVAL, STARTED AT THE BEGINNING OF FY 1987. THIS CODE NOW TAKES THE PLACE OF IMMEDIATE REMOVAL (IR) AND PLANNED REMOVAL (PR).

TYPE: **SF - SECTION 104(E) REF LITIGATION**

START DATE: **07/18/2008**

COMPLETION DATE: **09/28/2012**

ACTION TYPE DEFINITION:

ALL SECTION 104(E) REFERRALS WITHOUT SETTLEMENT REFERRED TO DOJ/OECM. THE REFERRAL CAN BE FOR INFORMATION, SITE ACCESS, OR ENFORCEMENT OF A S104(E) ORDER.

TYPE: **SI - SITE INSPECTION**

START DATE: **NOT REPORTED**

COMPLETION DATE: **06/01/1982**

ACTION TYPE DEFINITION:

THE PROCESS OF COLLECTING SITE DATA AND SAMPLES TO CHARACTERIZE THE SEVERITY OF THE HAZARD FOR THE HAZARD RANKING SCORE AND/OR ENFORCEMENT SUPPORT.

TYPE: **SV - SECTION 107 LITIGATION**

START DATE: **09/28/2004**

COMPLETION DATE: **05/21/2007**

ACTION TYPE DEFINITION:

JUDICIAL REFERRAL UNDER S107 TO RECOVERY FROM POTENTIALLY RESPONSIBLE PARTIES (PRPS).

TYPE: **SV - SECTION 107 LITIGATION**

START DATE: **11/29/2010**

COMPLETION DATE: **12/21/2010**

Superfund Enterprise Management System (SEMS)

ACTION TYPE DEFINITION:

JUDICIAL REFERRAL UNDER S107 TO RECOVERY FROM POTENTIALLY RESPONSIBLE PARTIES (PRPS).

TYPE: **RV - REMOVAL - TIME CRITICAL**

START DATE: **09/30/1987**

COMPLETION DATE: **12/09/1988**

ACTION TYPE DEFINITION:

RESPONSE ACTION THAT REQUIRES EXPEDITIOUS ATTENTION TO REDUCE IMMINENT AND SUBSTANTIAL DANGERS TO HUMAN HEALTH, WELFARE, OR THE ENVIRONMENT OR AN EMERGENCY RESPONSE REQUIRED WITHIN HOURS OR DAYS TO ADDRESS ACUTE SITUATIONS INVOLVING ACTUAL OR POTENTIAL THREAT TO HUMAN HEALTH, THE ENVIRONMENT, OR REAL OR PERSONAL PROPERTY DUE TO THE RELEASE OF A HAZARDOUS SUBSTANCE. CHARACTERIZATION OF A REMOVAL ACTION AS REMOVAL, NOT IMMEDIATE REMOVAL OR PLANNED REMOVAL, STARTED AT THE BEGINNING OF FY 1987. THIS CODE NOW TAKES THE PLACE OF IMMEDIATE REMOVAL (IR) AND PLANNED REMOVAL (PR).

TYPE: **CD - CONSENT DECREE**

START DATE: **03/13/2007**

COMPLETION DATE: **05/21/2007**

ACTION TYPE DEFINITION:

JUDICIAL AGREEMENT BETWEEN THE FEDERAL GOVERNMENT AND THE POTENTIALLY RESPONSIBLE PARTIES (PRPS) FULLY OR PARTIALLY SETTLING A CLAIM UNDER CERCLA. THIS AGREEMENT MAY SETTLE LITIGATION OR MAY BE PRESENTED CONCURRENTLY WITH THE COMPLAINT (ACHIEVED THROUGH NEGOTIATIONS). THE AGREEMENT MAY BE FOR RESPONSE WORK, COST RECOVERY, OR BOTH.

TYPE: **BF - POTENTIALLY RESPONSIBLE PARTY REMEDIAL ACTION**

START DATE: **07/25/1994**

COMPLETION DATE: **02/23/1995**

ACTION TYPE DEFINITION:

PROVIDES FOR OVERSIGHT OF POTENTIALLY RESPONSIBLE PARTY (PRP) RESPONSE ACTION FOR REMEDIAL ACTION (RA), INCLUDING ALL ACTIVITIES FOR MONITORING AND SUPERVISING THE PERFORMANCE OF THE RESPONSIBLE PARTIES TO DETERMINE WHETHER SUCH PERFORMANCE IS CONSISTENT WITH THE REQUIREMENTS OF THE ADMINISTRATIVE ORDERS ON CONSENT, UNILATERAL ADMINISTRATIVE ORDERS, CONSENT DECREES, JUDICIAL DECREES, INFORMATION AGREEMENTS, AND COMPLIANCE SCHEDULES.

TYPE: **BF - POTENTIALLY RESPONSIBLE PARTY REMEDIAL ACTION**

START DATE: **05/21/1998**

COMPLETION DATE: **09/24/1998**

ACTION TYPE DEFINITION:

PROVIDES FOR OVERSIGHT OF POTENTIALLY RESPONSIBLE PARTY (PRP) RESPONSE ACTION FOR REMEDIAL ACTION (RA), INCLUDING ALL ACTIVITIES FOR MONITORING AND SUPERVISING THE PERFORMANCE OF THE RESPONSIBLE PARTIES TO DETERMINE WHETHER SUCH PERFORMANCE IS CONSISTENT WITH THE REQUIREMENTS OF THE ADMINISTRATIVE ORDERS ON CONSENT, UNILATERAL ADMINISTRATIVE ORDERS, CONSENT DECREES, JUDICIAL DECREES, INFORMATION AGREEMENTS, AND COMPLIANCE SCHEDULES.

TYPE: **BF - POTENTIALLY RESPONSIBLE PARTY REMEDIAL ACTION - LONG TERM ACTION**

START DATE: **11/17/1997**

COMPLETION DATE: **09/28/1999**

Superfund Enterprise Management System (SEMS)

ACTION TYPE DEFINITION:

PROVIDES FOR OVERSIGHT OF POTENTIALLY RESPONSIBLE PARTY (PRP) RESPONSE ACTION FOR REMEDIAL ACTION (RA), INCLUDING ALL ACTIVITIES FOR MONITORING AND SUPERVISING THE PERFORMANCE OF THE RESPONSIBLE PARTIES TO DETERMINE WHETHER SUCH PERFORMANCE IS CONSISTENT WITH THE REQUIREMENTS OF THE ADMINISTRATIVE ORDERS ON CONSENT, UNILATERAL ADMINISTRATIVE ORDERS, CONSENT DECREES, JUDICIAL DECREES, INFORMATION AGREEMENTS, AND COMPLIANCE SCHEDULES.

TYPE: BF - POTENTIALLY RESPONSIBLE PARTY REMEDIAL ACTION

START DATE: 09/17/1998

COMPLETION DATE: 01/27/2000

ACTION TYPE DEFINITION:

PROVIDES FOR OVERSIGHT OF POTENTIALLY RESPONSIBLE PARTY (PRP) RESPONSE ACTION FOR REMEDIAL ACTION (RA), INCLUDING ALL ACTIVITIES FOR MONITORING AND SUPERVISING THE PERFORMANCE OF THE RESPONSIBLE PARTIES TO DETERMINE WHETHER SUCH PERFORMANCE IS CONSISTENT WITH THE REQUIREMENTS OF THE ADMINISTRATIVE ORDERS ON CONSENT, UNILATERAL ADMINISTRATIVE ORDERS, CONSENT DECREES, JUDICIAL DECREES, INFORMATION AGREEMENTS, AND COMPLIANCE SCHEDULES.

TYPE: BF - POTENTIALLY RESPONSIBLE PARTY REMEDIAL ACTION - LONG TERM ACTION

START DATE: 01/28/1999

COMPLETION DATE: 08/25/2000

ACTION TYPE DEFINITION:

PROVIDES FOR OVERSIGHT OF POTENTIALLY RESPONSIBLE PARTY (PRP) RESPONSE ACTION FOR REMEDIAL ACTION (RA), INCLUDING ALL ACTIVITIES FOR MONITORING AND SUPERVISING THE PERFORMANCE OF THE RESPONSIBLE PARTIES TO DETERMINE WHETHER SUCH PERFORMANCE IS CONSISTENT WITH THE REQUIREMENTS OF THE ADMINISTRATIVE ORDERS ON CONSENT, UNILATERAL ADMINISTRATIVE ORDERS, CONSENT DECREES, JUDICIAL DECREES, INFORMATION AGREEMENTS, AND COMPLIANCE SCHEDULES.

TYPE: BF - POTENTIALLY RESPONSIBLE PARTY REMEDIAL ACTION - LONG TERM ACTION

START DATE: 05/22/1998

COMPLETION DATE: 03/29/1999

ACTION TYPE DEFINITION:

PROVIDES FOR OVERSIGHT OF POTENTIALLY RESPONSIBLE PARTY (PRP) RESPONSE ACTION FOR REMEDIAL ACTION (RA), INCLUDING ALL ACTIVITIES FOR MONITORING AND SUPERVISING THE PERFORMANCE OF THE RESPONSIBLE PARTIES TO DETERMINE WHETHER SUCH PERFORMANCE IS CONSISTENT WITH THE REQUIREMENTS OF THE ADMINISTRATIVE ORDERS ON CONSENT, UNILATERAL ADMINISTRATIVE ORDERS, CONSENT DECREES, JUDICIAL DECREES, INFORMATION AGREEMENTS, AND COMPLIANCE SCHEDULES.

TYPE: CA - CONSENT AGREEMENT (ADMINISTRATIVE)

START DATE: NOT REPORTED

COMPLETION DATE: 09/14/1998

ACTION TYPE DEFINITION:

INFORMAL AGREEMENT USED TO INITIATE POTENTIALLY RESPONSIBLE PARTY (PRP) RESPONSE OR COST RECOVERY.

TYPE: CA - CONSENT AGREEMENT (ADMINISTRATIVE)

START DATE: NOT REPORTED

COMPLETION DATE: 03/10/2000

Superfund Enterprise Management System (SEMS)

ACTION TYPE DEFINITION:

INFORMAL AGREEMENT USED TO INITIATE POTENTIALLY RESPONSIBLE PARTY (PRP) RESPONSE OR COST RECOVERY.

TYPE: **CB - CLAIM IN BANKRUPTCY PROCEEDING**

START DATE: **11/29/2010**

COMPLETION DATE: **12/21/2010**

ACTION TYPE DEFINITION:

LEGAL ACTION PERFORMED BY EPA REGIONAL ATTORNEYS TO ESTABLISH EPA AS A CREDITOR WHEN POTENTIALLY RESPONSIBLE PARTY (PRP) HAS FILED FOR BANKRUPTCY.

TYPE: **FE - FIVE-YEAR REVIEW**

START DATE: **08/09/1993**

COMPLETION DATE: **03/30/1994**

ACTION TYPE DEFINITION:

A REVIEW THAT IS CONDUCTED AT A MINIMUM OF EVERY FIVE YEARS TO DETERMINE IF THE IMPLEMENTATION AND PERFORMANCE OF A REMEDY IS PROTECTIVE OR WILL BE PROTECTIVE OF HUMAN HEALTH AND THE ENVIRONMENT.

TYPE: **QX - PROSPECTIVE PURCHASER AGREEMENT ASSESSMENT**

START DATE: **06/17/1999**

COMPLETION DATE: **01/14/2000**

ACTION TYPE DEFINITION:

EPA REVIEWS A FORMAL REQUEST FOR A PROSPECTIVE PURCHASER AGREEMENT (PPA), RESULTING IN A DECISION TO GRANT OR DENY THE REQUEST.

TYPE: **BB - POTENTIALLY RESPONSIBLE PARTY REMOVAL - TIME CRITICAL**

START DATE: **06/08/1995**

COMPLETION DATE: **06/09/1995**

ACTION TYPE DEFINITION:

PROVIDES FOR OVERSIGHT OF POTENTIALLY RESPONSIBLE PARTY (PRP) RESPONSE ACTION FOR REMOVALS, INCLUDING ALL ACTIVITIES FOR MONITORING AND SUPERVISING THE PERFORMANCE OF PRPS TO DETERMINE WHETHER SUCH PERFORMANCE IS CONSISTENT WITH THE REQUIREMENTS OF THE ADMINISTRATIVE ORDERS ON CONSENT, UNILATERAL ADMINISTRATIVE ORDERS, CONSENT DECREES, JUDICIAL DECREES, INFORMATION AGREEMENTS, AND COMPLIANCE SCHEDULES.

TYPE: **CL - SECTION 106 107 LITIGATION**

START DATE: **05/26/1999**

COMPLETION DATE: **03/10/2000**

ACTION TYPE DEFINITION:

REFERRAL TO OEMC OR DOJ, WITHOUT SETTLEMENT, OF A CIVIL ACTION ADDRESSING A SITE UNDER SECTIONS 106 AND 107 OF CERCLA.

TYPE: **CL - SECTION 106 107 LITIGATION**

START DATE: **05/26/1999**

COMPLETION DATE: **01/14/2000**

ACTION TYPE DEFINITION:

REFERRAL TO OEMC OR DOJ, WITHOUT SETTLEMENT, OF A CIVIL ACTION ADDRESSING A SITE UNDER SECTIONS 106 AND

Superfund Enterprise Management System (SEMS)

107 OF CERCLA.

TYPE: **CO - COMBINED REMEDIAL INVESTIGATION/FEASIBILITY STUDY**

START DATE: **12/29/1999**

COMPLETION DATE: **09/29/2004**

ACTION TYPE DEFINITION:

THE PROCESS OF DATA COLLECTION AND ANALYSES OF THE SITE PROBLEM, IDENTIFICATION OF PRELIMINARY REMEDIAL ALTERNATIVES, AND RECOMMENDATION OF A COST-EFFECTIVE REMEDY. THERE CAN BE MULTIPLE REMEDIAL INVESTIGATION/FEASIBILITY STUDIES (RI/FS) CONDUCTED AT A SITE.

TYPE: **CR - COMMUNITY INVOLVEMENT**

START DATE: **12/31/1985**

COMPLETION DATE: **06/30/1986**

ACTION TYPE DEFINITION:

THE COMMUNITY RELATIONS ACTIVITIES, I.E., PLAN, IMPLEMENTATION AND RESPONSIVENESS SUMMARY THAT MUST BE COMPLETED AT A SITE TO ADDRESS COMMUNITY CONCERNS.

TYPE: **CR - COMMUNITY INVOLVEMENT**

START DATE: **12/01/1988**

COMPLETION DATE: **05/30/1989**

ACTION TYPE DEFINITION:

THE COMMUNITY RELATIONS ACTIVITIES, I.E., PLAN, IMPLEMENTATION AND RESPONSIVENESS SUMMARY THAT MUST BE COMPLETED AT A SITE TO ADDRESS COMMUNITY CONCERNS.

TYPE: **DP - PUBLIC NOTICE PUBLISHED**

START DATE: **NOT REPORTED**

COMPLETION DATE: **09/27/1991**

ACTION TYPE DEFINITION:

PUBLICATION IN THE LOCAL NEWSPAPER OF THE AVAILABILITY OF DOCUMENTS FOR PUBLIC REVIEW, SUCH AS THE ADMINISTRATIVE RECORD, PROPOSED PLAN, AND DELETION PACKAGE.

TYPE: **DS - DISCOVERY**

START DATE: **NOT REPORTED**

COMPLETION DATE: **03/01/1982**

ACTION TYPE DEFINITION:

THE PROCESS BY WHICH A POTENTIAL HAZARDOUS WASTE SITE IS BROUGHT TO THE ATTENTION OF THE EPA. THE PROCESS CAN OCCUR THROUGH THE USE OF SEVERAL MECHANISMS SUCH AS A PHONE CALL OR REFERRAL BY ANOTHER GOVERNMENT AGENCY.

TYPE: **EH - EXPLANATION OF SIGNIFICANT DIFFERENCES**

START DATE: **NOT REPORTED**

COMPLETION DATE: **09/01/1999**

ACTION TYPE DEFINITION:

MINOR CHANGE FROM THE ORIGINAL REMEDY SELECTED IN THE ORIGINAL RECORD OF DECISION (ROD), SUCH AS CONTINGENT REMEDY.

Superfund Enterprise Management System (SEMS)

TYPE: EH - EXPLANATION OF SIGNIFICANT DIFFERENCES

START DATE: NOT REPORTED

COMPLETION DATE: 06/06/2005

ACTION TYPE DEFINITION:

MINOR CHANGE FROM THE ORIGINAL REMEDY SELECTED IN THE ORIGINAL RECORD OF DECISION (ROD), SUCH AS CONTINGENT REMEDY.

TYPE: CD - CONSENT DECREE

START DATE: 09/10/1996

COMPLETION DATE: 06/03/1997

ACTION TYPE DEFINITION:

JUDICIAL AGREEMENT BETWEEN THE FEDERAL GOVERNMENT AND THE POTENTIALLY RESPONSIBLE PARTIES (PRPS) FULLY OR PARTIALLY SETTLING A CLAIM UNDER CERCLA. THIS AGREEMENT MAY SETTLE LITIGATION OR MAY BE PRESENTED CONCURRENTLY WITH THE COMPLAINT (ACHIEVED THROUGH NEGOTIATIONS). THE AGREEMENT MAY BE FOR RESPONSE WORK, COST RECOVERY, OR BOTH.

TYPE: AN - REMEDIAL DESIGN/REMEDIAL ACTION NEGOTIATIONS

START DATE: 06/25/1997

COMPLETION DATE: 09/19/1997

ACTION TYPE DEFINITION:

DISCUSSIONS AND INFORMATION EXCHANGE BETWEEN POTENTIALLY RESPONSIBLE PARTIES (PRPS) AND EPA (OR STATE) OVER THE LIABILITY OF THE PRP, WILLINGNESS, AND ABILITY TO CONDUCT THE REMEDIAL DESIGN AND/OR THE REMEDIAL ACTION AS IDENTIFIED IN THE RECORD OF DECISION (ROD).

TYPE: RV - REMOVAL - TIME CRITICAL

START DATE: 09/21/1998

COMPLETION DATE: 12/14/1998

ACTION TYPE DEFINITION:

RESPONSE ACTION THAT REQUIRES EXPEDITIOUS ATTENTION TO REDUCE IMMINENT AND SUBSTANTIAL DANGERS TO HUMAN HEALTH, WELFARE, OR THE ENVIRONMENT OR AN EMERGENCY RESPONSE REQUIRED WITHIN HOURS OR DAYS TO ADDRESS ACUTE SITUATIONS INVOLVING ACTUAL OR POTENTIAL THREAT TO HUMAN HEALTH, THE ENVIRONMENT, OR REAL OR PERSONAL PROPERTY DUE TO THE RELEASE OF A HAZARDOUS SUBSTANCE. CHARACTERIZATION OF A REMOVAL ACTION AS REMOVAL, NOT IMMEDIATE REMOVAL OR PLANNED REMOVAL, STARTED AT THE BEGINNING OF FY 1987. THIS CODE NOW TAKES THE PLACE OF IMMEDIATE REMOVAL (IR) AND PLANNED REMOVAL (PR).

TYPE: AC - ADMINISTRATIVE ORDER ON CONSENT

START DATE: NOT REPORTED

COMPLETION DATE: 02/12/1993

ACTION TYPE DEFINITION:

A VOLUNTARY AND ENFORCEABLE AGREEMENT PURSUANT TO CERCLA, SIGNED BY EPA AND POTENTIALLY RESPONSIBLE PARTIES (PRPS), WHEREBY THE PRPS AGREE TO PERFORM AND/OR PAY FOR SOME OR ALL OF THE RESPONSE COSTS INVOLVED IN SITE CLEANUP. THE ORDER DESCRIBES THE PRP RESPONSE TO BE TAKEN AT A SITE, STIPULATED PENALTIES, INDEMNIFICATION, EFFECTIVE DATE, AND MAY BE SUBJECT TO PUBLIC COMMENT. IT CAN BE FOR REMOVAL, REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS), REMEDIAL DESIGN (RD), AND REMEDIAL ACTION (RA), PRE-SARA; BUT ONLY REMOVAL AND RI/FS, POST-SARA.

Superfund Enterprise Management System (SEMS)

TYPE: AC - ADMINISTRATIVE ORDER ON CONSENT

START DATE: NOT REPORTED

COMPLETION DATE: 02/25/1993

ACTION TYPE DEFINITION:

A VOLUNTARY AND ENFORCEABLE AGREEMENT PURSUANT TO CERCLA, SIGNED BY EPA AND POTENTIALLY RESPONSIBLE PARTIES (PRPS), WHEREBY THE PRPS AGREE TO PERFORM AND/OR PAY FOR SOME OR ALL OF THE RESPONSE COSTS INVOLVED IN SITE CLEANUP. THE ORDER DESCRIBES THE PRP RESPONSE TO BE TAKEN AT A SITE, STIPULATED PENALTIES, INDEMNIFICATION, EFFECTIVE DATE, AND MAY BE SUBJECT TO PUBLIC COMMENT. IT CAN BE FOR REMOVAL, REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS), REMEDIAL DESIGN (RD), AND REMEDIAL ACTION (RA),PRE-SARA; BUT ONLY REMOVAL AND RI/FS, POST-SARA.

TYPE: AC - ADMINISTRATIVE ORDER ON CONSENT

START DATE: NOT REPORTED

COMPLETION DATE: 04/18/1993

ACTION TYPE DEFINITION:

A VOLUNTARY AND ENFORCEABLE AGREEMENT PURSUANT TO CERCLA, SIGNED BY EPA AND POTENTIALLY RESPONSIBLE PARTIES (PRPS), WHEREBY THE PRPS AGREE TO PERFORM AND/OR PAY FOR SOME OR ALL OF THE RESPONSE COSTS INVOLVED IN SITE CLEANUP. THE ORDER DESCRIBES THE PRP RESPONSE TO BE TAKEN AT A SITE, STIPULATED PENALTIES, INDEMNIFICATION, EFFECTIVE DATE, AND MAY BE SUBJECT TO PUBLIC COMMENT. IT CAN BE FOR REMOVAL, REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS), REMEDIAL DESIGN (RD), AND REMEDIAL ACTION (RA),PRE-SARA; BUT ONLY REMOVAL AND RI/FS, POST-SARA.

TYPE: AC - ADMINISTRATIVE ORDER ON CONSENT

START DATE: NOT REPORTED

COMPLETION DATE: 06/02/1993

ACTION TYPE DEFINITION:

A VOLUNTARY AND ENFORCEABLE AGREEMENT PURSUANT TO CERCLA, SIGNED BY EPA AND POTENTIALLY RESPONSIBLE PARTIES (PRPS), WHEREBY THE PRPS AGREE TO PERFORM AND/OR PAY FOR SOME OR ALL OF THE RESPONSE COSTS INVOLVED IN SITE CLEANUP. THE ORDER DESCRIBES THE PRP RESPONSE TO BE TAKEN AT A SITE, STIPULATED PENALTIES, INDEMNIFICATION, EFFECTIVE DATE, AND MAY BE SUBJECT TO PUBLIC COMMENT. IT CAN BE FOR REMOVAL, REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS), REMEDIAL DESIGN (RD), AND REMEDIAL ACTION (RA),PRE-SARA; BUT ONLY REMOVAL AND RI/FS, POST-SARA.

TYPE: AC - ADMINISTRATIVE ORDER ON CONSENT

START DATE: NOT REPORTED

COMPLETION DATE: 11/19/1993

ACTION TYPE DEFINITION:

A VOLUNTARY AND ENFORCEABLE AGREEMENT PURSUANT TO CERCLA, SIGNED BY EPA AND POTENTIALLY RESPONSIBLE PARTIES (PRPS), WHEREBY THE PRPS AGREE TO PERFORM AND/OR PAY FOR SOME OR ALL OF THE RESPONSE COSTS INVOLVED IN SITE CLEANUP. THE ORDER DESCRIBES THE PRP RESPONSE TO BE TAKEN AT A SITE, STIPULATED PENALTIES, INDEMNIFICATION, EFFECTIVE DATE, AND MAY BE SUBJECT TO PUBLIC COMMENT. IT CAN BE FOR REMOVAL, REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS), REMEDIAL DESIGN (RD), AND REMEDIAL ACTION (RA),PRE-SARA; BUT ONLY REMOVAL AND RI/FS, POST-SARA.

TYPE: AC - ADMINISTRATIVE ORDER ON CONSENT

START DATE: NOT REPORTED

COMPLETION DATE: 06/08/1995

Superfund Enterprise Management System (SEMS)

ACTION TYPE DEFINITION:

A VOLUNTARY AND ENFORCEABLE AGREEMENT PURSUANT TO CERCLA, SIGNED BY EPA AND POTENTIALLY RESPONSIBLE PARTIES (PRPS), WHEREBY THE PRPS AGREE TO PERFORM AND/OR PAY FOR SOME OR ALL OF THE RESPONSE COSTS INVOLVED IN SITE CLEANUP. THE ORDER DESCRIBES THE PRP RESPONSE TO BE TAKEN AT A SITE, STIPULATED PENALTIES, INDEMNIFICATION, EFFECTIVE DATE, AND MAY BE SUBJECT TO PUBLIC COMMENT. IT CAN BE FOR REMOVAL, REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS), REMEDIAL DESIGN (RD), AND REMEDIAL ACTION (RA),PRE-SARA; BUT ONLY REMOVAL AND RI/FS, POST-SARA.

TYPE: AC - ADMINISTRATIVE ORDER ON CONSENT

START DATE: NOT REPORTED

COMPLETION DATE: 09/13/1995

ACTION TYPE DEFINITION:

A VOLUNTARY AND ENFORCEABLE AGREEMENT PURSUANT TO CERCLA, SIGNED BY EPA AND POTENTIALLY RESPONSIBLE PARTIES (PRPS), WHEREBY THE PRPS AGREE TO PERFORM AND/OR PAY FOR SOME OR ALL OF THE RESPONSE COSTS INVOLVED IN SITE CLEANUP. THE ORDER DESCRIBES THE PRP RESPONSE TO BE TAKEN AT A SITE, STIPULATED PENALTIES, INDEMNIFICATION, EFFECTIVE DATE, AND MAY BE SUBJECT TO PUBLIC COMMENT. IT CAN BE FOR REMOVAL, REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS), REMEDIAL DESIGN (RD), AND REMEDIAL ACTION (RA),PRE-SARA; BUT ONLY REMOVAL AND RI/FS, POST-SARA.

TYPE: AC - ADMINISTRATIVE ORDER ON CONSENT

START DATE: NOT REPORTED

COMPLETION DATE: 08/21/1996

ACTION TYPE DEFINITION:

A VOLUNTARY AND ENFORCEABLE AGREEMENT PURSUANT TO CERCLA, SIGNED BY EPA AND POTENTIALLY RESPONSIBLE PARTIES (PRPS), WHEREBY THE PRPS AGREE TO PERFORM AND/OR PAY FOR SOME OR ALL OF THE RESPONSE COSTS INVOLVED IN SITE CLEANUP. THE ORDER DESCRIBES THE PRP RESPONSE TO BE TAKEN AT A SITE, STIPULATED PENALTIES, INDEMNIFICATION, EFFECTIVE DATE, AND MAY BE SUBJECT TO PUBLIC COMMENT. IT CAN BE FOR REMOVAL, REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS), REMEDIAL DESIGN (RD), AND REMEDIAL ACTION (RA),PRE-SARA; BUT ONLY REMOVAL AND RI/FS, POST-SARA.

TYPE: BB - POTENTIALLY RESPONSIBLE PARTY REMOVAL - TIME CRITICAL

START DATE: 07/22/2004

COMPLETION DATE: 01/05/2006

ACTION TYPE DEFINITION:

PROVIDES FOR OVERSIGHT OF POTENTIALLY RESPONSIBLE PARTY (PRP) RESPONSE ACTION FOR REMOVALS, INCLUDING ALL ACTIVITIES FOR MONITORING AND SUPERVISING THE PERFORMANCE OF PRPS TO DETERMINE WHETHER SUCH PERFORMANCE IS CONSISTENT WITH THE REQUIREMENTS OF THE ADMINISTRATIVE ORDERS ON CONSENT, UNILATERAL ADMINISTRATIVE ORDERS, CONSENT DECREES, JUDICIAL DECREES, INFORMATION AGREEMENTS, AND COMPLIANCE SCHEDULES.

TYPE: AC - ADMINISTRATIVE ORDER ON CONSENT

START DATE: NOT REPORTED

COMPLETION DATE: 04/26/2007

ACTION TYPE DEFINITION:

A VOLUNTARY AND ENFORCEABLE AGREEMENT PURSUANT TO CERCLA, SIGNED BY EPA AND POTENTIALLY RESPONSIBLE PARTIES (PRPS), WHEREBY THE PRPS AGREE TO PERFORM AND/OR PAY FOR SOME OR ALL OF THE RESPONSE COSTS INVOLVED IN SITE CLEANUP. THE ORDER DESCRIBES THE PRP RESPONSE TO BE TAKEN AT A SITE,

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STIPULATED PENALTIES, INDEMNIFICATION, EFFECTIVE DATE, AND MAY BE SUBJECT TO PUBLIC COMMENT. IT CAN BE FOR REMOVAL, REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS), REMEDIAL DESIGN (RD), AND REMEDIAL ACTION (RA),PRE-SARA; BUT ONLY REMOVAL AND RI/FS, POST-SARA.

TYPE: **BB - POTENTIALLY RESPONSIBLE PARTY REMOVAL - TIME CRITICAL**

START DATE: **09/21/1996**

COMPLETION DATE: **11/10/1996**

ACTION TYPE DEFINITION:

PROVIDES FOR OVERSIGHT OF POTENTIALLY RESPONSIBLE PARTY (PRP) RESPONSE ACTION FOR REMOVALS, INCLUDING ALL ACTIVITIES FOR MONITORING AND SUPERVISING THE PERFORMANCE OF PRPS TO DETERMINE WHETHER SUCH PERFORMANCE IS CONSISTENT WITH THE REQUIREMENTS OF THE ADMINISTRATIVE ORDERS ON CONSENT, UNILATERAL ADMINISTRATIVE ORDERS, CONSENT DECREES, JUDICIAL DECREES, INFORMATION AGREEMENTS, AND COMPLIANCE SCHEDULES.

TYPE: **AR - ADMINISTRATIVE RECORDS**

START DATE: **09/30/1987**

COMPLETION DATE: **05/08/1988**

ACTION TYPE DEFINITION:

SARA SPECIFIES THAT ADMINISTRATIVE RECORDS BE COMPILED AT SUPERFUND SITES WHERE REMEDIAL OR REMOVAL RESPONSES ARE PLANNED, OR ARE OCCURRING, OR WHERE EPA IS ISSUING A UNILATERAL ORDER OR INITIATING LITIGATION TO TRACK ENFORCEMENT CASE BUDGET FUNDS USED FOR ANY RP LEAD ACTIVITY.

TYPE: **AR - ADMINISTRATIVE RECORDS**

START DATE: **10/01/1987**

COMPLETION DATE: **10/01/1987**

ACTION TYPE DEFINITION:

SARA SPECIFIES THAT ADMINISTRATIVE RECORDS BE COMPILED AT SUPERFUND SITES WHERE REMEDIAL OR REMOVAL RESPONSES ARE PLANNED, OR ARE OCCURRING, OR WHERE EPA IS ISSUING A UNILATERAL ORDER OR INITIATING LITIGATION TO TRACK ENFORCEMENT CASE BUDGET FUNDS USED FOR ANY RP LEAD ACTIVITY.

TYPE: **AR - ADMINISTRATIVE RECORDS**

START DATE: **09/01/1988**

COMPLETION DATE: **09/30/1991**

ACTION TYPE DEFINITION:

SARA SPECIFIES THAT ADMINISTRATIVE RECORDS BE COMPILED AT SUPERFUND SITES WHERE REMEDIAL OR REMOVAL RESPONSES ARE PLANNED, OR ARE OCCURRING, OR WHERE EPA IS ISSUING A UNILATERAL ORDER OR INITIATING LITIGATION TO TRACK ENFORCEMENT CASE BUDGET FUNDS USED FOR ANY RP LEAD ACTIVITY.

TYPE: **AR - ADMINISTRATIVE RECORDS**

START DATE: **09/17/1991**

COMPLETION DATE: **09/17/1991**

ACTION TYPE DEFINITION:

SARA SPECIFIES THAT ADMINISTRATIVE RECORDS BE COMPILED AT SUPERFUND SITES WHERE REMEDIAL OR REMOVAL RESPONSES ARE PLANNED, OR ARE OCCURRING, OR WHERE EPA IS ISSUING A UNILATERAL ORDER OR INITIATING LITIGATION TO TRACK ENFORCEMENT CASE BUDGET FUNDS USED FOR ANY RP LEAD ACTIVITY.

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TYPE: **BB - POTENTIALLY RESPONSIBLE PARTY REMOVAL - TIME CRITICAL**

START DATE: **06/15/1993**

COMPLETION DATE: **06/16/1993**

ACTION TYPE DEFINITION:

PROVIDES FOR OVERSIGHT OF POTENTIALLY RESPONSIBLE PARTY (PRP) RESPONSE ACTION FOR REMOVALS, INCLUDING ALL ACTIVITIES FOR MONITORING AND SUPERVISING THE PERFORMANCE OF PRPS TO DETERMINE WHETHER SUCH PERFORMANCE IS CONSISTENT WITH THE REQUIREMENTS OF THE ADMINISTRATIVE ORDERS ON CONSENT, UNILATERAL ADMINISTRATIVE ORDERS, CONSENT DECREES, JUDICIAL DECREES, INFORMATION AGREEMENTS, AND COMPLIANCE SCHEDULES.

TYPE: **BB - POTENTIALLY RESPONSIBLE PARTY REMOVAL - TIME CRITICAL**

START DATE: **12/08/1993**

COMPLETION DATE: **06/09/1994**

ACTION TYPE DEFINITION:

PROVIDES FOR OVERSIGHT OF POTENTIALLY RESPONSIBLE PARTY (PRP) RESPONSE ACTION FOR REMOVALS, INCLUDING ALL ACTIVITIES FOR MONITORING AND SUPERVISING THE PERFORMANCE OF PRPS TO DETERMINE WHETHER SUCH PERFORMANCE IS CONSISTENT WITH THE REQUIREMENTS OF THE ADMINISTRATIVE ORDERS ON CONSENT, UNILATERAL ADMINISTRATIVE ORDERS, CONSENT DECREES, JUDICIAL DECREES, INFORMATION AGREEMENTS, AND COMPLIANCE SCHEDULES.

TYPE: **BB - POTENTIALLY RESPONSIBLE PARTY REMOVAL - TIME CRITICAL**

START DATE: **12/15/1993**

COMPLETION DATE: **04/29/1994**

ACTION TYPE DEFINITION:

PROVIDES FOR OVERSIGHT OF POTENTIALLY RESPONSIBLE PARTY (PRP) RESPONSE ACTION FOR REMOVALS, INCLUDING ALL ACTIVITIES FOR MONITORING AND SUPERVISING THE PERFORMANCE OF PRPS TO DETERMINE WHETHER SUCH PERFORMANCE IS CONSISTENT WITH THE REQUIREMENTS OF THE ADMINISTRATIVE ORDERS ON CONSENT, UNILATERAL ADMINISTRATIVE ORDERS, CONSENT DECREES, JUDICIAL DECREES, INFORMATION AGREEMENTS, AND COMPLIANCE SCHEDULES.

TYPE: **BB - POTENTIALLY RESPONSIBLE PARTY REMOVAL - TIME CRITICAL**

START DATE: **01/04/1994**

COMPLETION DATE: **04/29/1994**

ACTION TYPE DEFINITION:

PROVIDES FOR OVERSIGHT OF POTENTIALLY RESPONSIBLE PARTY (PRP) RESPONSE ACTION FOR REMOVALS, INCLUDING ALL ACTIVITIES FOR MONITORING AND SUPERVISING THE PERFORMANCE OF PRPS TO DETERMINE WHETHER SUCH PERFORMANCE IS CONSISTENT WITH THE REQUIREMENTS OF THE ADMINISTRATIVE ORDERS ON CONSENT, UNILATERAL ADMINISTRATIVE ORDERS, CONSENT DECREES, JUDICIAL DECREES, INFORMATION AGREEMENTS, AND COMPLIANCE SCHEDULES.

TYPE: **BB - POTENTIALLY RESPONSIBLE PARTY REMOVAL - TIME CRITICAL**

START DATE: **10/30/1995**

COMPLETION DATE: **04/19/1996**

ACTION TYPE DEFINITION:

PROVIDES FOR OVERSIGHT OF POTENTIALLY RESPONSIBLE PARTY (PRP) RESPONSE ACTION FOR REMOVALS, INCLUDING ALL ACTIVITIES FOR MONITORING AND SUPERVISING THE PERFORMANCE OF PRPS TO DETERMINE WHETHER SUCH PERFORMANCE IS CONSISTENT WITH THE REQUIREMENTS OF THE ADMINISTRATIVE ORDERS ON CONSENT, UNILATERAL

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ADMINISTRATIVE ORDERS, CONSENT DECREES, JUDICIAL DECREES, INFORMATION AGREEMENTS, AND COMPLIANCE SCHEDULES.

TYPE: **BB - POTENTIALLY RESPONSIBLE PARTY REMOVAL - TIME CRITICAL**

START DATE: **08/23/1993**

COMPLETION DATE: **09/23/1994**

ACTION TYPE DEFINITION:

PROVIDES FOR OVERSIGHT OF POTENTIALLY RESPONSIBLE PARTY (PRP) RESPONSE ACTION FOR REMOVALS, INCLUDING ALL ACTIVITIES FOR MONITORING AND SUPERVISING THE PERFORMANCE OF PRPS TO DETERMINE WHETHER SUCH PERFORMANCE IS CONSISTENT WITH THE REQUIREMENTS OF THE ADMINISTRATIVE ORDERS ON CONSENT, UNILATERAL ADMINISTRATIVE ORDERS, CONSENT DECREES, JUDICIAL DECREES, INFORMATION AGREEMENTS, AND COMPLIANCE SCHEDULES.

TYPE: **AC - ADMINISTRATIVE ORDER ON CONSENT**

START DATE: **NOT REPORTED**

COMPLETION DATE: **04/26/2007**

ACTION TYPE DEFINITION:

A VOLUNTARY AND ENFORCEABLE AGREEMENT PURSUANT TO CERCLA, SIGNED BY EPA AND POTENTIALLY RESPONSIBLE PARTIES (PRPS), WHEREBY THE PRPS AGREE TO PERFORM AND/OR PAY FOR SOME OR ALL OF THE RESPONSE COSTS INVOLVED IN SITE CLEANUP. THE ORDER DESCRIBES THE PRP RESPONSE TO BE TAKEN AT A SITE, STIPULATED PENALTIES, INDEMNIFICATION, EFFECTIVE DATE, AND MAY BE SUBJECT TO PUBLIC COMMENT. IT CAN BE FOR REMOVAL, REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS), REMEDIAL DESIGN (RD), AND REMEDIAL ACTION (RA),PRE-SARA; BUT ONLY REMOVAL AND RI/FS, POST-SARA.

TYPE: **NS - NATIONAL PRIORITIES LIST RESPONSIBLE PARTY SEARCH**

START DATE: **10/13/1999**

COMPLETION DATE: **11/03/1999**

ACTION TYPE DEFINITION:

THE NATIONAL PRIORITY LIST (NPL) POTENTIALLY RESPONSIBLE PARTY (PRP) SEARCH IS USED TO IDENTIFY PRPS AT A FINAL NPL OR PROPOSED NPL SITE. ACTIONS TYPICALLY INCLUDE TITLE SEARCH, FINANCIAL ASSESSMENTS, AND REVIEW OF APPLICABLE RECORDS. THE NPL PRP SEARCH SHOULD BEGIN UPON COMPLETION OF THE SCREENING SITE INVESTIGATION AND SHOULD BE CONDUCTED CONCURRENT WITH THE NATIONAL PRIORITIES LISTING PROCESS.

TYPE: **NJ - NOTICE LETTERS ISSUED**

START DATE: **NOT REPORTED**

COMPLETION DATE: **02/15/1995**

ACTION TYPE DEFINITION:

EPA ISSUES NOTICE LETTERS TO POTENTIALLY RESPONSIBLE PARTIES INFORMING THEM OF THEIR POTENTIAL LIABILITY UNDER CERCLA AND INVITING THEM TO DISCUSS INVOLVEMENT AT THE SITE.

TYPE: **NJ - NOTICE LETTERS ISSUED**

START DATE: **NOT REPORTED**

COMPLETION DATE: **08/30/1995**

ACTION TYPE DEFINITION:

EPA ISSUES NOTICE LETTERS TO POTENTIALLY RESPONSIBLE PARTIES INFORMING THEM OF THEIR POTENTIAL LIABILITY UNDER CERCLA AND INVITING THEM TO DISCUSS INVOLVEMENT AT THE SITE.

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TYPE: **NJ - NOTICE LETTERS ISSUED**

START DATE: **NOT REPORTED**

COMPLETION DATE: **07/09/1997**

ACTION TYPE DEFINITION:

EPA ISSUES NOTICE LETTERS TO POTENTIALLY RESPONSIBLE PARTIES INFORMING THEM OF THEIR POTENTIAL LIABILITY UNDER CERCLA AND INVITING THEM TO DISCUSS INVOLVEMENT AT THE SITE.

TYPE: **NJ - NOTICE LETTERS ISSUED**

START DATE: **NOT REPORTED**

COMPLETION DATE: **06/25/1997**

ACTION TYPE DEFINITION:

EPA ISSUES NOTICE LETTERS TO POTENTIALLY RESPONSIBLE PARTIES INFORMING THEM OF THEIR POTENTIAL LIABILITY UNDER CERCLA AND INVITING THEM TO DISCUSS INVOLVEMENT AT THE SITE.

TYPE: **NJ - NOTICE LETTERS ISSUED**

START DATE: **NOT REPORTED**

COMPLETION DATE: **09/05/1997**

ACTION TYPE DEFINITION:

EPA ISSUES NOTICE LETTERS TO POTENTIALLY RESPONSIBLE PARTIES INFORMING THEM OF THEIR POTENTIAL LIABILITY UNDER CERCLA AND INVITING THEM TO DISCUSS INVOLVEMENT AT THE SITE.

TYPE: **NJ - NOTICE LETTERS ISSUED**

START DATE: **NOT REPORTED**

COMPLETION DATE: **09/22/1997**

ACTION TYPE DEFINITION:

EPA ISSUES NOTICE LETTERS TO POTENTIALLY RESPONSIBLE PARTIES INFORMING THEM OF THEIR POTENTIAL LIABILITY UNDER CERCLA AND INVITING THEM TO DISCUSS INVOLVEMENT AT THE SITE.

TYPE: **NJ - NOTICE LETTERS ISSUED**

START DATE: **NOT REPORTED**

COMPLETION DATE: **08/10/1994**

ACTION TYPE DEFINITION:

EPA ISSUES NOTICE LETTERS TO POTENTIALLY RESPONSIBLE PARTIES INFORMING THEM OF THEIR POTENTIAL LIABILITY UNDER CERCLA AND INVITING THEM TO DISCUSS INVOLVEMENT AT THE SITE.

TYPE: **NJ - NOTICE LETTERS ISSUED**

START DATE: **NOT REPORTED**

COMPLETION DATE: **08/12/1994**

ACTION TYPE DEFINITION:

EPA ISSUES NOTICE LETTERS TO POTENTIALLY RESPONSIBLE PARTIES INFORMING THEM OF THEIR POTENTIAL LIABILITY UNDER CERCLA AND INVITING THEM TO DISCUSS INVOLVEMENT AT THE SITE.

TYPE: **NJ - NOTICE LETTERS ISSUED**

START DATE: **NOT REPORTED**

COMPLETION DATE: **02/18/1987**

Superfund Enterprise Management System (SEMS)

ACTION TYPE DEFINITION:

EPA ISSUES NOTICE LETTERS TO POTENTIALLY RESPONSIBLE PARTIES INFORMING THEM OF THEIR POTENTIAL LIABILITY UNDER CERCLA AND INVITING THEM TO DISCUSS INVOLVEMENT AT THE SITE.

TYPE: NJ - NOTICE LETTERS ISSUED

START DATE: NOT REPORTED

COMPLETION DATE: 10/04/1996

ACTION TYPE DEFINITION:

EPA ISSUES NOTICE LETTERS TO POTENTIALLY RESPONSIBLE PARTIES INFORMING THEM OF THEIR POTENTIAL LIABILITY UNDER CERCLA AND INVITING THEM TO DISCUSS INVOLVEMENT AT THE SITE.

TYPE: NS - NATIONAL PRIORITIES LIST RESPONSIBLE PARTY SEARCH

START DATE: 10/17/1990

COMPLETION DATE: 06/09/1994

ACTION TYPE DEFINITION:

THE NATIONAL PRIORITY LIST (NPL) POTENTIALLY RESPONSIBLE PARTY (PRP) SEARCH IS USED TO IDENTIFY PRPS AT A FINAL NPL OR PROPOSED NPL SITE. ACTIONS TYPICALLY INCLUDE TITLE SEARCH, FINANCIAL ASSESSMENTS, AND REVIEW OF APPLICABLE RECORDS. THE NPL PRP SEARCH SHOULD BEGIN UPON COMPLETION OF THE SCREENING SITE INVESTIGATION AND SHOULD BE CONDUCTED CONCURRENT WITH THE NATIONAL PRIORITIES LISTING PROCESS.

TYPE: NS - NATIONAL PRIORITIES LIST RESPONSIBLE PARTY SEARCH

START DATE: 07/07/1987

COMPLETION DATE: 11/30/1988

ACTION TYPE DEFINITION:

THE NATIONAL PRIORITY LIST (NPL) POTENTIALLY RESPONSIBLE PARTY (PRP) SEARCH IS USED TO IDENTIFY PRPS AT A FINAL NPL OR PROPOSED NPL SITE. ACTIONS TYPICALLY INCLUDE TITLE SEARCH, FINANCIAL ASSESSMENTS, AND REVIEW OF APPLICABLE RECORDS. THE NPL PRP SEARCH SHOULD BEGIN UPON COMPLETION OF THE SCREENING SITE INVESTIGATION AND SHOULD BE CONDUCTED CONCURRENT WITH THE NATIONAL PRIORITIES LISTING PROCESS.

TYPE: NS - NATIONAL PRIORITIES LIST RESPONSIBLE PARTY SEARCH

START DATE: 05/10/2005

COMPLETION DATE: 07/27/2006

ACTION TYPE DEFINITION:

THE NATIONAL PRIORITY LIST (NPL) POTENTIALLY RESPONSIBLE PARTY (PRP) SEARCH IS USED TO IDENTIFY PRPS AT A FINAL NPL OR PROPOSED NPL SITE. ACTIONS TYPICALLY INCLUDE TITLE SEARCH, FINANCIAL ASSESSMENTS, AND REVIEW OF APPLICABLE RECORDS. THE NPL PRP SEARCH SHOULD BEGIN UPON COMPLETION OF THE SCREENING SITE INVESTIGATION AND SHOULD BE CONDUCTED CONCURRENT WITH THE NATIONAL PRIORITIES LISTING PROCESS.

TYPE: NS - NATIONAL PRIORITIES LIST RESPONSIBLE PARTY SEARCH

START DATE: 04/26/2006

COMPLETION DATE: 03/20/2009

ACTION TYPE DEFINITION:

THE NATIONAL PRIORITY LIST (NPL) POTENTIALLY RESPONSIBLE PARTY (PRP) SEARCH IS USED TO IDENTIFY PRPS AT A FINAL NPL OR PROPOSED NPL SITE. ACTIONS TYPICALLY INCLUDE TITLE SEARCH, FINANCIAL ASSESSMENTS, AND REVIEW OF APPLICABLE RECORDS. THE NPL PRP SEARCH SHOULD BEGIN UPON COMPLETION OF THE SCREENING SITE INVESTIGATION AND SHOULD BE CONDUCTED CONCURRENT WITH THE NATIONAL PRIORITIES LISTING PROCESS.

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TYPE: **NS - NATIONAL PRIORITIES LIST RESPONSIBLE PARTY SEARCH**

START DATE: **11/19/2005**

COMPLETION DATE: **05/23/2006**

ACTION TYPE DEFINITION:

THE NATIONAL PRIORITY LIST (NPL) POTENTIALLY RESPONSIBLE PARTY (PRP) SEARCH IS USED TO IDENTIFY PRPS AT A FINAL NPL OR PROPOSED NPL SITE. ACTIONS TYPICALLY INCLUDE TITLE SEARCH, FINANCIAL ASSESSMENTS, AND REVIEW OF APPLICABLE RECORDS. THE NPL PRP SEARCH SHOULD BEGIN UPON COMPLETION OF THE SCREENING SITE INVESTIGATION AND SHOULD BE CONDUCTED CONCURRENT WITH THE NATIONAL PRIORITIES LISTING PROCESS.

TYPE: **OF - OPERATIONAL & FUNCTIONAL**

START DATE: **12/01/1998**

COMPLETION DATE: **09/28/1999**

ACTION TYPE DEFINITION:

MEASURES TAKEN TO ENSURE THAT THE REMEDY IS FUNCTIONING PROPERLY AND IS PERFORMING AS DESIGNED. EPA WILL FUND UP TO ONE YEAR OF OF OR UP TO TEN YEARS OF OF IF THE REMEDY INVOLVES RESTORATION OF GROUND OR SURFACE WATER.

TYPE: **PA - PRELIMINARY ASSESSMENT**

START DATE: **NOT REPORTED**

COMPLETION DATE: **07/01/1982**

ACTION TYPE DEFINITION:

COLLECTION OF DIVERSE EXISTING INFORMATION ABOUT THE SOURCE AND NATURE OF THE SITE HAZARD. IT IS EPA POLICY TO COMPLETE THE PRELIMINARY ASSESSMENT WITHIN ONE YEAR OF SITE DISCOVERY.

TYPE: **PC - PREPARATION OF COST DOCUMENT PACKAGE**

START DATE: **01/31/1993**

COMPLETION DATE: **12/31/1993**

ACTION TYPE DEFINITION:

PACKAGE PREPARED IN SUPPORT OF COST RECOVERY ACTIONS CONTAINING SITE-SPECIFIC COST DOCUMENTATION INFORMATION FOR DIRECT EXPENDITURES (I.E., AGENCY PAYROLL AND TRAVEL, CONTRACTING COSTS) AND INDIRECT COSTS. DOCUMENTATION MAY BE CONDENSED PER RULE 1006 OF THE FEDERAL RULES OF EVIDENCE.

TYPE: **PJ - POTENTIALLY RESPONSIBLE PARTY EMERGENCY REMOVAL - TIME CRITICAL**

START DATE: **07/17/2006**

COMPLETION DATE: **08/29/2006**

ACTION TYPE DEFINITION:

THE PRP OR THEIR CONTRACTORS HAVE BEGUN CONSTRUCTION WORK ON-SITE IN RESPONSE TO AN EMERGENCY INCIDENT, AND EPA PROVIDES ON-SITE TECHNICAL OVERSIGHT AND/OR IS PART OF AN INCIDENT COMMAND SYSTEM/UNIFIED COMMAND. THE DATE OF CONSTRUCTION IS REPORTED IN WASTELAN AS THE PRP EMERGENCY REMOVAL ACTUAL START DATE.

TYPE: **FE - FIVE-YEAR REVIEW**

START DATE: **12/02/1998**

COMPLETION DATE: **03/26/1999**

ACTION TYPE DEFINITION:

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A REVIEW THAT IS CONDUCTED AT A MINIMUM OF EVERY FIVE YEARS TO DETERMINE IF THE IMPLEMENTATION AND PERFORMANCE OF A REMEDY IS PROTECTIVE OR WILL BE PROTECTIVE OF HUMAN HEALTH AND THE ENVIRONMENT.

TYPE: **AS - AERIAL SURVEY**

START DATE: **03/18/1991**

COMPLETION DATE: **06/25/1991**

ACTION TYPE DEFINITION:

PROVIDE AERIAL PHOTOGRAPHY, MULTISPECTRAL SCANNER (MSS), FORWARD LOOKING INFRARED (FLIR), AND HISTORICAL AERIAL PHOTOGRAPHS WITH ANALYSES SUPPORT FOR REGIONAL OFFICES AND OERR REQUIREMENTS FOR PRE-REMEDIAL AND REMEDIAL ACTIONS. THE AERIAL SURVEY SUPPORT PROVIDES FOUR TYPES OF REMOTE SENSING PROJECTS: (1) EMERGENCY RESPONSE PROJECTS FOR RAPID ACQUISITION AND ASSESSMENT, (2) SINGLE DATE PROJECTS TO ACQUIRE CURRENT DATA, (3) INTENSIVE SITE ANALYSES TO ACQUIRE IMAGERY OVER A PERIOD OF TIME USING HISTORICAL AERIAL PHOTOGRAPHS DATING BACK AS FAR AS 1920, (4) WASTE SITE INVENTORIES TO ESTABLISH BASELINE REFERENCE OVER LARGE AREAS. CERCLA HAZARDOUS WASTE SITES.

TYPE: **NP - PROPOSAL TO NATIONAL PRIORITIES LIST**

START DATE: **NOT REPORTED**

COMPLETION DATE: **12/30/1982**

ACTION TYPE DEFINITION:

SITE PROPOSED FOR INCLUSION ON THE NATIONAL PRIORITY LIST BASED ON THE HAZARD RANKING SYSTEM (HRS) SCORE FOR THE SITE.

TYPE: **IC - ISSUE REQUEST LETTERS (104E)**

START DATE: **NOT REPORTED**

COMPLETION DATE: **02/15/1995**

ACTION TYPE DEFINITION:

EPA ISSUES LETTERS UNDER THE AUTHORITY OF SECTION 104(E) TO GATHER INFORMATION RELATED TO (1) THE IDENTIFICATION, NATURE, AND QUANTITY OF MATERIALS; (2) THE NATURE OR EXTENT OF A RELEASE OR THREATENED RELEASE OF A HAZARDOUS SUBSTANCE, POLLUTANT, OR CONTAMINANT; OR (3) THE ABILITY OF A PERSON TO PAY FOR OR TO PERFORM A CLEANUP.

TYPE: **FE - FIVE-YEAR REVIEW**

START DATE: **04/28/2004**

COMPLETION DATE: **09/29/2004**

ACTION TYPE DEFINITION:

A REVIEW THAT IS CONDUCTED AT A MINIMUM OF EVERY FIVE YEARS TO DETERMINE IF THE IMPLEMENTATION AND PERFORMANCE OF A REMEDY IS PROTECTIVE OR WILL BE PROTECTIVE OF HUMAN HEALTH AND THE ENVIRONMENT.

TYPE: **FE - FIVE-YEAR REVIEW**

START DATE: **05/01/2007**

COMPLETION DATE: **09/29/2009**

ACTION TYPE DEFINITION:

A REVIEW THAT IS CONDUCTED AT A MINIMUM OF EVERY FIVE YEARS TO DETERMINE IF THE IMPLEMENTATION AND PERFORMANCE OF A REMEDY IS PROTECTIVE OR WILL BE PROTECTIVE OF HUMAN HEALTH AND THE ENVIRONMENT.

TYPE: **NS - NATIONAL PRIORITIES LIST RESPONSIBLE PARTY SEARCH**

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START DATE: **04/22/1993**

COMPLETION DATE: **03/15/1994**

ACTION TYPE DEFINITION:

THE NATIONAL PRIORITY LIST (NPL) POTENTIALLY RESPONSIBLE PARTY (PRP) SEARCH IS USED TO IDENTIFY PRPS AT A FINAL NPL OR PROPOSED NPL SITE. ACTIONS TYPICALLY INCLUDE TITLE SEARCH, FINANCIAL ASSESSMENTS, AND REVIEW OF APPLICABLE RECORDS. THE NPL PRP SEARCH SHOULD BEGIN UPON COMPLETION OF THE SCREENING SITE INVESTIGATION AND SHOULD BE CONDUCTED CONCURRENT WITH THE NATIONAL PRIORITIES LISTING PROCESS.

TYPE: **NJ - NOTICE LETTERS ISSUED**

START DATE: **NOT REPORTED**

COMPLETION DATE: **08/30/1995**

ACTION TYPE DEFINITION:

EPA ISSUES NOTICE LETTERS TO POTENTIALLY RESPONSIBLE PARTIES INFORMING THEM OF THEIR POTENTIAL LIABILITY UNDER CERCLA AND INVITING THEM TO DISCUSS INVOLVEMENT AT THE SITE.

TYPE: **FS - FEASIBILITY STUDY**

START DATE: **09/01/1986**

COMPLETION DATE: **09/30/1991**

ACTION TYPE DEFINITION:

A STUDY OF A HAZARDOUS WASTE SITE INTENDED TO (1) EVALUATE ALTERNATIVE REMEDIAL ACTIONS FROM TECHNICAL, ENVIRONMENTAL, AND COST-EFFECTIVENESS PERSPECTIVES; (2) RECOMMEND THE COST-EFFECTIVE REMEDIAL ACTION; AND (3) PREPARE A CONCEPTUAL DESIGN, A COSTESTIMATE FOR BUDGETARY PURPOSES, AND A PRELIMINARY CONSTRUCTION SCHEDULE.

TYPE: **FS - FEASIBILITY STUDY**

START DATE: **09/17/1986**

COMPLETION DATE: **09/30/1987**

ACTION TYPE DEFINITION:

A STUDY OF A HAZARDOUS WASTE SITE INTENDED TO (1) EVALUATE ALTERNATIVE REMEDIAL ACTIONS FROM TECHNICAL, ENVIRONMENTAL, AND COST-EFFECTIVENESS PERSPECTIVES; (2) RECOMMEND THE COST-EFFECTIVE REMEDIAL ACTION; AND (3) PREPARE A CONCEPTUAL DESIGN, A COSTESTIMATE FOR BUDGETARY PURPOSES, AND A PRELIMINARY CONSTRUCTION SCHEDULE.

TYPE: **FS - FEASIBILITY STUDY**

START DATE: **04/09/1987**

COMPLETION DATE: **03/31/1988**

ACTION TYPE DEFINITION:

A STUDY OF A HAZARDOUS WASTE SITE INTENDED TO (1) EVALUATE ALTERNATIVE REMEDIAL ACTIONS FROM TECHNICAL, ENVIRONMENTAL, AND COST-EFFECTIVENESS PERSPECTIVES; (2) RECOMMEND THE COST-EFFECTIVE REMEDIAL ACTION; AND (3) PREPARE A CONCEPTUAL DESIGN, A COSTESTIMATE FOR BUDGETARY PURPOSES, AND A PRELIMINARY CONSTRUCTION SCHEDULE.

TYPE: **GU - NON-CONSENSUAL JUDICIAL ORDER**

START DATE: **NOT REPORTED**

COMPLETION DATE: **08/22/2007**

ACTION TYPE DEFINITION:

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ANY ORDER ISSUED BY THE COURT OTHER THAN A CONSENT ORDER OR ADMINISTRATIVE DEFAULT ORDER.

TYPE: **IC - ISSUE REQUEST LETTERS (104E)**

START DATE: **NOT REPORTED**

COMPLETION DATE: **04/22/1993**

ACTION TYPE DEFINITION:

EPA ISSUES LETTERS UNDER THE AUTHORITY OF SECTION 104(E) TO GATHER INFORMATION RELATED TO (1) THE IDENTIFICATION, NATURE, AND QUANTITY OF MATERIALS; (2) THE NATURE OR EXTENT OF A RELEASE OR THREATENED RELEASE OF A HAZARDOUS SUBSTANCE, POLLUTANT, OR CONTAMINANT; OR (3) THE ABILITY OF A PERSON TO PAY FOR OR TO PERFORM A CLEANUP.

TYPE: **IC - ISSUE REQUEST LETTERS (104E)**

START DATE: **NOT REPORTED**

COMPLETION DATE: **10/04/1996**

ACTION TYPE DEFINITION:

EPA ISSUES LETTERS UNDER THE AUTHORITY OF SECTION 104(E) TO GATHER INFORMATION RELATED TO (1) THE IDENTIFICATION, NATURE, AND QUANTITY OF MATERIALS; (2) THE NATURE OR EXTENT OF A RELEASE OR THREATENED RELEASE OF A HAZARDOUS SUBSTANCE, POLLUTANT, OR CONTAMINANT; OR (3) THE ABILITY OF A PERSON TO PAY FOR OR TO PERFORM A CLEANUP.

TYPE: **JF - ECOLOGICAL RISK ASSESSMENT**

START DATE: **07/28/2000**

COMPLETION DATE: **11/14/2001**

ACTION TYPE DEFINITION:

ASSESSMENT OF THE BASELINE RISKS POSED BY THE SITE TO ECOLOGICAL RECEPTORS.

TYPE: **JQ - RECORD OF DECISION AMENDMENT**

START DATE: **NOT REPORTED**

COMPLETION DATE: **09/22/2003**

ACTION TYPE DEFINITION:

SIGNIFICANT CHANGE FROM THE ORIGINAL SELECTED REMEDY STATED IN THE ORIGINAL RECORD OF DECISION (ROD), SUCH AS NEW TECHNOLOGY OR NEW MEDIUM.

TYPE: **LR - LONG TERM RESPONSE ACTION**

START DATE: **09/28/1999**

COMPLETION DATE: **09/30/2009**

ACTION TYPE DEFINITION:

SITE REQUIREMENTS ASSOCIATED WITH A REMEDY THAT MUST BE PERFORMED AFTER COMPLETION OF A REMEDIAL ACTION.

TYPE: **NF - FINAL LISTING ON NATIONAL PRIORITIES LIST**

START DATE: **NOT REPORTED**

COMPLETION DATE: **09/08/1983**

ACTION TYPE DEFINITION:

SITE MOVED FROM PROPOSED LIST TO FINAL NATIONAL PRIORITY LIST.

Superfund Enterprise Management System (SEMS)

TYPE: **JQ - RECORD OF DECISION AMENDMENT**

START DATE: **NOT REPORTED**

COMPLETION DATE: **04/29/2010**

ACTION TYPE DEFINITION:

SIGNIFICANT CHANGE FROM THE ORIGINAL SELECTED REMEDY STATED IN THE ORIGINAL RECORD OF DECISION (ROD), SUCH AS NEW TECHNOLOGY OR NEW MEDIUM.

TYPE: **HR - HAZARD RANKING SYSTEM PACKAGE**

START DATE: **NOT REPORTED**

COMPLETION DATE: **12/01/1982**

ACTION TYPE DEFINITION:

A NUMERIC ESTIMATE OF THE RELATIVE SEVERITY OF A HAZARDOUS SUBSTANCE RELEASE OR POTENTIAL RELEASE BASED ON: (1) THE RELATIVE POTENTIAL OF SUBSTANCES TO CAUSE HAZARDOUS SITUATIONS; (2) THE LIKELIHOOD AND RATE AT WHICH THE SUBSTANCES MAY AFFECT HUMAN AND ENVIRONMENTAL RECEPTORS; AND (3) THE SEVERITY AND MAGNITUDE OF POTENTIAL EFFECTS. THE SCORE IS COMPUTED USING THE HAZARD RANKING SYSTEM (HRS).

TYPE: **LO - LODGED BY DOJ**

START DATE: **NOT REPORTED**

COMPLETION DATE: **02/12/1997**

ACTION TYPE DEFINITION:

AN ENFORCEMENT INSTRUMENT (E.G. CONSENT DECREE) IS LODGED BY DOJ WITH THE COURT.

TYPE: **NJ - NOTICE LETTERS ISSUED**

START DATE: **NOT REPORTED**

COMPLETION DATE: **09/04/1991**

ACTION TYPE DEFINITION:

EPA ISSUES NOTICE LETTERS TO POTENTIALLY RESPONSIBLE PARTIES INFORMING THEM OF THEIR POTENTIAL LIABILITY UNDER CERCLA AND INVITING THEM TO DISCUSS INVOLVEMENT AT THE SITE.

TYPE: **LO - LODGED BY DOJ**

START DATE: **NOT REPORTED**

COMPLETION DATE: **03/15/2007**

ACTION TYPE DEFINITION:

AN ENFORCEMENT INSTRUMENT (E.G. CONSENT DECREE) IS LODGED BY DOJ WITH THE COURT.

TYPE: **MA - STATE SUPPORT AGENCY COOPERATIVE AGREEMENT**

START DATE: **07/10/1985**

COMPLETION DATE: **06/15/1988**

ACTION TYPE DEFINITION:

FEDERAL RENUMERATION OF STATE ADMINISTRATIVE COSTS OF PARTICIPATION IN SITE-SPECIFIC REMEDIAL PLANNING OR IMPLEMENTATION ACTIVITIES.

TYPE: **JQ - RECORD OF DECISION AMENDMENT**

START DATE: **NOT REPORTED**

COMPLETION DATE: **09/25/2006**

ACTION TYPE DEFINITION:

Superfund Enterprise Management System (SEMS)

SIGNIFICANT CHANGE FROM THE ORIGINAL SELECTED REMEDY STATED IN THE ORIGINAL RECORD OF DECISION (ROD), SUCH AS NEW TECHNOLOGY OR NEW MEDIUM.

TYPE: **NG - NEGOTIATION (GENERIC)**

START DATE: **08/10/1994**

COMPLETION DATE: **06/08/1995**

ACTION TYPE DEFINITION:

THIS ACTION IS USED TO CODE NEGOTIATIONS THAT COVER ANY COMBINATION OF REMEDIES OR STATUTES (CERCLA, SARA, RCRA) NOT REFLECTED IN THE CONVENTIONAL ACTIVITY TYPES OF AN (RD/RA NEGOTIATIONS), FN (RI/FS NEGOTIATIONS), RN (REMOVAL NEGOTIATIONS) AND NE (COST RECOVERY NEGOTIATIONS). IF PREFERRED, THIS ACTIVITY CAN BE USED TO CODE ALL NEGOTIATION TYPES INSTEAD OF USING THE CONVENTIONAL AN, FN, RN, AND NE CODES. BECAUSE THIS ACTIVITY IS GENERIC, CODING THE STATUTES AND THE REMEDY TYPES CORRECTLY IS MANDATORY. ALL OTHER EDIT CHECKS AND CODING REQUIREMENTS THAT APPLY TO AN, FN, RN, AND NE APPLY TO NG AS WELL.

EXAMPLES: ACTION=NG, STATUTE=106,122, REMEDY=RA IS EQUIVALENT TO AN; ACTION=NG, STATUTE=107,122, REMEDY=VA IS EQUIVALENT TO NE; ACTION=NG, STATUTE=106,122, REMEDY=RV IS EQUIVALENT TO RN; ACTION=NG, STATUTE=106,122, REMEDY=CO IS EQUIVALENT TO FN; ACTION=NG, STATUTE=106,122, REMEDY=OM, VD, VA, CO ARE COMBINATIONS NOT COVERED BY AN, FN, RN, NE.

TYPE: **LT - LITIGATION (GENERIC)**

START DATE: **08/08/2007**

COMPLETION DATE: **08/22/2007**

ACTION TYPE DEFINITION:

THIS ACTIVITY IS USED TO CODE REFERRALS FOR LITIGATION THAT COVER ANY COMBINATION OF REMEDIES OR STATUTES (CERCLA, SARA, RCRA) NOT REFLECTED IN THE CONVENTIONAL ACTIVITY TYPES OF SX (SECTION 106), SV (SECTION 107), CL (COMBINED 106/107), AND SF (SECTION 104). IF PREFERRED, THIS ACTIVITY CAN BE USED TO CODE ALL REFERRAL TYPES INSTEAD OF USING THE CONVENTIONAL SX, SV, CL, SF CODES. BECAUSE THIS ACTIVITY IS GENERIC, CODING THE STATUTES (STATUTE) AND THE REMEDY TYPES (REMEDY) CORRECTLY IS MANDATORY. ALL OTHER EDIT CHECKS AND CODING REQUIREMENTS THAT APPLY TO SX, SV, CL, AND SF APPLY TO LT AS WELL. EXAMPLES:

ACTION=LT, STATUTE=106, REMEDY=RA IS EQUIVALENT TO SX; ACTION=LT, STATUTE=107, REMEDY=VA IS EQUIVALENT TO SV; ACTION=LT, STATUTE=106,107, REMEDY=VD, RA IS EQUIVALENT TO CL; ACTION=LT, STATUTE=104, REMEDY=SE, DE IS EQUIVALENT TO SF; ACTION=LT, STATUTE=104,107,106, REMEDY=DE, VM, RD, RA, IS A COMBINATION NOT COVERED BY SX, SV, CL, SF.

CONTAMINANTS

WASTE SOURCE MEDIA CONTAMINATED NAME: **CADMIUM**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **CADMIUM**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **COPPER**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **COPPER**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **GROUNDWATER 01 RVNEI**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

Superfund Enterprise Management System (SEMS)

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**
HAZARDOUS SUBSTANCE NAME: **ARSENIC**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **GROUNDWATER 01 RVNEI**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**
HAZARDOUS SUBSTANCE NAME: **CADMIUM**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **GROUNDWATER 01 RVNEI**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**
HAZARDOUS SUBSTANCE NAME: **CHROMIUM**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **GROUNDWATER 01 RVNEI**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**
HAZARDOUS SUBSTANCE NAME: **LEAD**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **GROUNDWATER**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **4600 UG/L**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **FLUORIDE**
CONTAMINANT GROUP NAME: **INORGANICS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **GROUNDWATER**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **7.5 UG/L**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **ARSENIC**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **GROUNDWATER**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **312 UG/L**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **CADMIUM**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **GROUNDWATER**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **9 UG/L**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **CHROMIUM**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **GROUNDWATER**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **6700 UG/L**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **COPPER**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **GROUNDWATER**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **50000 UG/L**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

Superfund Enterprise Management System (SEMS)

HAZARDOUS SUBSTANCE NAME: **MANGANESE**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **GROUNDWATER**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **688 UG/L**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **NICKEL**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **GROUNDWATER**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **0.2 UG/L**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **SILVER**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **GROUNDWATER**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **60100 UG/L**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **ZINC**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **GROUNDWATER**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **ARSENIC**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **LEAD**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **LEAD**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **ZINC**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **ZINC**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **ARGO TREATMENT**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **ACID COMPOUNDS**

CONTAMINANT GROUP NAME: **ACIDS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **ARGO TREATMENT**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **METALS**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **LEACHATE**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **ZINC**

Superfund Enterprise Management System (SEMS)

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **NCC PIPELINE**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **ACID COMPOUNDS**

CONTAMINANT GROUP NAME: **ACIDS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **NCC PIPELINE**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **METALS**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **CYANIDE**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **SODIUM CYANIDE**

CONTAMINANT GROUP NAME: **INORGANICS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **LIQUID MERCURY**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **MERCURY**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **ACID MINE DRAINAGE**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **ARSENIC**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **ACID MINE DRAINAGE**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **LEAD**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **ACID MINE DRAINAGE**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **MANGANESE**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **ACID MINE DRAINAGE**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **METALS**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **ACID MINE DRAINAGE**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **ZINC**

CONTAMINANT GROUP NAME: **METALS**

Superfund Enterprise Management System (SEMS)

WASTE SOURCE MEDIA CONTAMINATED NAME: **SEDIMENT**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **CADMIUM**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SEDIMENT**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **COPPER**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SEDIMENT**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **ZINC**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SEDIMENT**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **ARSENIC**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SEDIMENT**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **CADMIUM**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SEDIMENT**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **COPPER**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SEDIMENT**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **LEAD**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SEDIMENT**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **MANGANESE**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SEDIMENT**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **ZINC**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SOIL 01 MATRL**

Superfund Enterprise Management System (SEMS)

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **ARSENIC**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SOIL 01 MATRL**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **CADMIUM**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SOIL 01 MATRL**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **CHROMIUM**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SOIL 01 MATRL**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **LEAD**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SOIL 01 MATRL**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **ZINC**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SOIL 01 MATRL**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **ARSENIC**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SOIL 01 MATRL**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **LEAD**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SOIL 01 MATRL**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **MANGANESE**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SOIL 01 MATRL**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **METALS**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SOIL 01 MATRL**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

Superfund Enterprise Management System (SEMS)

HAZARDOUS SUBSTANCE NAME: **CADMIUM**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **SOIL 02 MATRL**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**
HAZARDOUS SUBSTANCE NAME: **CHROMIUM**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **SOIL 02 MATRL**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**
HAZARDOUS SUBSTANCE NAME: **LEAD**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **SOIL 02 MATRL**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**
HAZARDOUS SUBSTANCE NAME: **ZINC**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **SOIL OU 03, RA 01**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**
HAZARDOUS SUBSTANCE NAME: **METALS**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **TAILINGS**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **METALS**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **5 PILES SOLID WASTE**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**
HAZARDOUS SUBSTANCE NAME: **FLUORIDE**
CONTAMINANT GROUP NAME: **INORGANICS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **5 PILES SOLID WASTE**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**
HAZARDOUS SUBSTANCE NAME: **ALUMINUM**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **5 PILES SOLID WASTE**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **ARSENIC**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **5 PILES SOLID WASTE**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **CADMIUM**

Superfund Enterprise Management System (SEMS)

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **5 PILES SOLID WASTE**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **CHROMIUM (HEXAVALENT)**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **5 PILES SOLID WASTE**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **COPPER**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **5 PILES SOLID WASTE**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **LEAD**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **5 PILES SOLID WASTE**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **MANGANESE**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **5 PILES SOLID WASTE**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **NICKEL**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **5 PILES SOLID WASTE**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **SILVER**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **5 PILES SOLID WASTE**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **ZINC**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **BIG 5/GREGORY SW**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **FLUORIDE**

CONTAMINANT GROUP NAME: **INORGANICS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **BIG 5/GREGORY SW**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **ALUMINUM**

CONTAMINANT GROUP NAME: **METALS**

Superfund Enterprise Management System (SEMS)

WASTE SOURCE MEDIA CONTAMINATED NAME: **BIG 5/GREGORY SW**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **ARSENIC**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **BIG 5/GREGORY SW**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **CADMIUM**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **BIG 5/GREGORY SW**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **CHROMIUM (HEXAVALENT)**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **BIG 5/GREGORY SW**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**
HAZARDOUS SUBSTANCE NAME: **COPPER**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **BIG 5/GREGORY SW**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **LEAD**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **BIG 5/GREGORY SW**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**
HAZARDOUS SUBSTANCE NAME: **MANGANESE**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **BIG 5/GREGORY SW**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **NICKEL**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **BIG 5/GREGORY SW**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **SILVER**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **BIG 5/GREGORY SW**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**
HAZARDOUS SUBSTANCE NAME: **ZINC**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **MINE WASTE**

Superfund Enterprise Management System (SEMS)

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **ARSENIC**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **MINE WASTE**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **LEAD**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SOLID WASTE**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **630 MG/KG**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **ARSENIC**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SOLID WASTE**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **28 MG/KG**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **CADMIUM**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SOLID WASTE**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **83 MG/KG**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **CHROMIUM**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SOLID WASTE**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **790 MG/KG**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **COPPER**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SOLID WASTE**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **5630 MG/KG**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **MANGANESE**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SOLID WASTE**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **38 MG/KG**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **NICKEL**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SOLID WASTE**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **35 MG/KG**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **SILVER**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SOLID WASTE**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **5830 MG/KG**

Superfund Enterprise Management System (SEMS)

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **ZINC**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **SOLID WASTE**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **ARSENIC**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **SOLID WASTE**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **CADMIUM**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **SOLID WASTE**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **COPPER**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **SOLID WASTE**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **LEAD**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **SOLID WASTE**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **MANGANESE**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **SOLID WASTE**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **ZINC**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **MINE DRAINAGE**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **ZINC**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER 01 MAT**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**
HAZARDOUS SUBSTANCE NAME: **METALS**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER 01 MAT**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

Superfund Enterprise Management System (SEMS)

HAZARDOUS SUBSTANCE NAME: **METALS**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER 01 MAT**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **METALS**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER 01 MAT**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **ARSENIC**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER 01 MAT**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **BARIUM**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER 01 MAT**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **CADMIUM**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER 01 MAT**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **CHROMIUM**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER 01 MAT**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **LEAD**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER 01 MAT**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **METALS**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER 01 MAT**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **VOC**

CONTAMINANT GROUP NAME: **VOC**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SW CLEAR CREEK**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **19600 UG/L**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **ALUMINUM**

Superfund Enterprise Management System (SEMS)

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SW CLEAR CREEK**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **135 UG/L**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **ARSENIC**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SW CLEAR CREEK**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **12.6 UG/L**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **CADMIUM**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SW CLEAR CREEK**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **19 UG/L**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **CHROMIUM**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SW CLEAR CREEK**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **5170 UG/L**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **COPPER**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SW CLEAR CREEK**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **144000 UG/L**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **IRON**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SW CLEAR CREEK**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **59 UG/L**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **LEAD**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SW CLEAR CREEK**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **84050 UG/L**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **MANGANESE**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SW CLEAR CREEK**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **239 UG/L**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **NICKEL**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SW CLEAR CREEK**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **75 UG/L**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **SILVER**

CONTAMINANT GROUP NAME: **METALS**

Superfund Enterprise Management System (SEMS)

WASTE SOURCE MEDIA CONTAMINATED NAME: **SW CLEAR CREEK**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **42375 UG/L**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **ZINC**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SW NORTH CLEAR CREEK**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **63400 UG/L**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **ALUMINUM**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SW NORTH CLEAR CREEK**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **1474 UG/L**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **ARSENIC**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SW NORTH CLEAR CREEK**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **363 UG/L**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **CADMIUM**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SW NORTH CLEAR CREEK**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **56 UG/L**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **CHROMIUM**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SW NORTH CLEAR CREEK**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **48733 UG/L**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **COPPER**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SW NORTH CLEAR CREEK**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **549667 UG/L**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **IRON**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SW NORTH CLEAR CREEK**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **137 UG/L**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **LEAD**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SW NORTH CLEAR CREEK**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **62100 UG/L**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **MANGANESE**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SW NORTH CLEAR CREEK**

Superfund Enterprise Management System (SEMS)

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **480 UG/L**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **NICKEL**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SW NORTH CLEAR CREEK**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **18 UG/L**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **SILVER**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SW NORTH CLEAR CREEK**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **89300 UG/L**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **ZINC**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **2 UG/L**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **ARSENIC**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **20 UG/L**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **CADMIUM**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **2960 UG/L**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **COPPER**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **16 UG/L**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **LEAD**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **19500 UG/L**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **MANGANESE**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **0.1 UG/L**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **MERCURY**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **7610 UG/L**

Superfund Enterprise Management System (SEMS)

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **ZINC**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **4800 UG/L**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **FLUORIDE**

CONTAMINANT GROUP NAME: **INORGANICS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **3 UG/L**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **ARSENIC**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **19 UG/L**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **CADMIUM**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **59 UG/L**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **CHROMIUM**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **203 UG/L**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **COPPER**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **10000 UG/L**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **MANGANESE**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **87 UG/L**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **NICKEL**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **2220 UG/L**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **ZINC**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

Superfund Enterprise Management System (SEMS)

HAZARDOUS SUBSTANCE NAME: **CADMIUM**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **COPPER**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **MANGANESE**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **MERCURY**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **ZINC**

CONTAMINANT GROUP NAME: **METALS**

LISTING OF PUBLISHED INSTITUTIONAL CONTROL SITE REPORT - NOT AN INSTITUTIONAL CONTROL SITE -

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Enforcement and Compliance History Information (ECHOR08)

[MAP ID# 1](#)

Distance from Property: 0.001 mi. (5 ft.) NE

FACILITY INFORMATION

UNIQUE ID: 110009270975

REGISTRY ID: 110009270975

NAME: CENTRAL CITY, CLEAR CREEK

ADDRESS: NEAR TOWN

IDAHO SPRINGS, CO 80452

COUNTY: CLEAR CREEK

FACILITY LINK: [Facility Detail Report](#)

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National Priorities List (NPL)

MAP ID# 1

Distance from Property: 0.001 mi. (5 ft.) NE

FACILITY INFORMATION

EPA ID#: COD980717557

SITE ID#: 0800257

NAME: CENTRAL CITY, CLEAR CREEK

ADDRESS: NEAR TOWN

IDAHO SPRINGS, CO 80452

COUNTY: CLEAR CREEK

NATIONAL PRIORITY LISTING: F - CURRENTLY ON THE FINAL NPL

FEDERAL FACILITY CLASSIFICATION: NO - NOT A FEDERAL FACILITY

NON-NPL STATUS: NOT REPORTED -

NON-NPL STATUS DATE: NOT REPORTED

PHYSICAL CLASSIFICATION OF SITE / INCIDENT: MINES/TAILINGS

FEDERAL REGISTER INFORMATION

DATE	VOLUME	PAGE #	ACTION	HRS SCORE
09/08/1983	48	40658	PROMULGATED TO THE FINAL NPL	51.39000
12/30/1982	47	58476	PROPOSED TO THE FINAL NPL	46.65000

SITE DESCRIPTION

THE CLEAR CREEK WATERSHED INCORPORATES THE CLEAR CREEK/CENTRAL CITY SUPERFUND INVESTIGATION AREA AND THE HISTORIC MINING ACTIVITIES ASSOCIATED WITH THE COLORADO MINERAL BELT WHERE THE WATERSHED AND THE MINERAL BELT INTERSECT. THE WATER QUALITY OF THE WATERSHED IS COMPROMISED BY METALS CONTAMINATION FROM ACID MINE DRAINAGE DISCHARGING FROM HISTORIC MINE TUNNELS TO CLEAR CREEK AND ITS TRIBUTARIES, FROM DIFFUSE GROUND WATER METALS LOADINGS ASSOCIATED WITH FLOODED UNDERGROUND MINE WORKINGS, AND FROM MINE WASTE PILES LOCATED ADJACENT TO THE FLOWS IN CLEAR CREEK AND ITS TRIBUTARIES. AS A RESULT, THE EPA INCLUDED THE WATERSHED ON THE INTERIM NATIONAL PRIORITY LIST (NPL) IN 1982. IN 1983 IT WAS RETAINED ON THE FINAL NPL.

A PHASE I CLEAR CREEK/CENTRAL CITY REMEDIAL INVESTIGATION AND FEASIBILITY STUDY (RI/FS) WERE CONDUCTED IN 1985 IN THE IDAHO SPRINGS AND THE BLACK HAWK/CENTRAL CITY AREAS. THIS INVESTIGATION FOCUSED ON DISCHARGES AND MINING-RELATED WASTES ASSOCIATED WITH THE BIG 5 TUNNEL AND ARGO TUNNEL LOCATED IN IDAHO SPRINGS, COLORADO, AND THE NATIONAL TUNNEL, QUARTZ HILL TUNNEL IN CENTRAL CITY, COLORADO, AND THE GREGORY INCLINE IN BLACK HAWK, COLORADO. THE PHASE I FS WAS COMPLETED IN AUGUST 1988.

A PHASE II CLEAR CREEK/CENTRAL CITY RI/FS WAS IMPLEMENTED IN 1989 FOR THE COLORADO DEPARTMENT OF HEALTH, KNOWN NOW AS THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT (CDPHE), WHICH WAS DESIGNATED THE ROLE OF LEAD AGENCY IN 1988. THE PHASE II INVESTIGATION BROADENED THE ORIGINAL PHASE I AREA TO INCLUDE THE APPROXIMATELY 400 SQUARE MILE CLEAR CREEK WATERSHED ABOVE GOLDEN, COLORADO. THE PHASE II RI WAS COMPLETED IN SEPTEMBER 1990 AND THE DRAFT PHASE II FS SUBMITTED TO THE PUBLIC FOR COMMENT IN JUNE 1991.

THE CLEAR CREEK CENTRAL CITY SUPERFUND INVESTIGATION AREA WAS DIVIDED INTO FOUR OPERABLE UNITS (OUS) FOR THE PURPOSE OF ADDRESSING SPECIFIC SOURCES OF METALS CONTAMINATION.

OU1 WAS DESIGNATED TO EVALUATE TREATMENT OF THE ACID MINE DRAINAGE FROM THE NATIONAL, GREGORY INCLINE, QUARTZ HILL, ARGO, AND BIG FIVE TUNNEL DISCHARGES. THE FEASIBILITY STUDY FOR OU1 WAS COMPLETED IN 1987 AND A RECORD OF DECISION (ROD) WAS SIGNED IN SEPTEMBER 1987. THE ROD SELECTED PASSIVE TREATMENT OF THE DISCHARGING ACID MINE WATER AS THE PREFERRED REMEDIAL ALTERNATIVE. IF IT WAS DETERMINED THAT

National Priorities List (NPL)

PASSIVE TREATMENT WAS NOT EFFECTIVE, THE ROD ALLOWED THE FLEXIBILITY FOR ACTIVE TREATMENT. ACTIVE TREATMENT OF THE ARGO TUNNEL DISCHARGE HAS BEEN EFFECTIVE IN REDUCING METALS LOADING TO CLEAR CREEK.

OPERABLE UNIT 01:

SURFACE WATER CONTAMINATION RESULTS FROM ACID MINE DRAINAGE EMANATING FROM THE FIVE TUNNELS AND FROM SEEPAGE OF GROUND WATER THROUGH TAILINGS PILES BOTH PROXIMAL TO THESE TUNNELS AND ALONG STREAM COURSES. POTENTIAL CONTAMINANT RECEPTORS INCLUDE INHABITANTS OF THE AREA, DOWNSTREAM SURFACE WATER AND GROUND WATER USERS AND WILDLIFE, BOTH TERRESTRIAL AND AQUATIC. RECENT STUDIES COMPLETED BY EPA INDICATE THAT SIGNIFICANT LOADINGS OF DISSOLVED AND SUSPENDED METALS (1,200 POUNDS PER DAY) ARE DISCHARGED TO THE CLEAR CREEK DRAINAGE FROM THE FIVE MINE TUNNELS. THESE DISSOLVED AND SUSPENDED METAL LOADINGS HAVE RESULTED IN A SIGNIFICANT DEPLETION OF AQUATIC LIFE AND HAVE POTENTIAL IMPACT TO DOWNSTREAM USERS OF SURFACE AND GROUND WATER.

THE ACIDITY OF THE MINE DRAINAGE IS DUE LARGELY TO OXIDIZED GROUND WATER PASSING THROUGH ORE ZONES DOMINATED BY IRON-BEARING MINERALS, PRIMARILY PYRITE. ONE METHOD OF FORMING ACID MINE DRAINAGE IS SULFIDE OXIDATION BEING CATALYZED BY AEROBIC BACTERIA, PARTICULARLY THE GENUS THIOBACILLUS, RESULTING IN THE RELEASE OF SULFURIC ACID AND, CONSEQUENTLY, FURTHER MINERAL DISSOLUTION. SUBSEQUENT DISCHARGE FROM THE TUNNELS RELEASES DISSOLVED AND SUSPENDED METALS TO CLEAR CREEK AND NORTH CLEAR CREEK, ADVERSELY AFFECTING WATER QUALITY FOR DOWNSTREAM USERS.

A RECORD OF DECISION ADDRESSING OPERABLE UNIT 01 OF THE CENTRAL CITY/CLEAR CREEK SITE WAS COMPLETED IN SEPTEMBER 1987.

OPERABLE UNIT 02:

THE WASTE ROCK/TAILINGS PILES CONSIDERED IN THE OPERABLE UNIT WERE SELECTED BASED ON THEIR LOCATION CLOSE TO THE ACID MINE DISCHARGES. CURRENTLY, THE MAJOR IMPACTS ON THE WATER QUALITY OF CLEAR CREEK ARE THE BIG FIVE AND ARGO MINE TUNNEL DISCHARGES. THE WATER QUALITY OF NORTH CLEAR CREEK IS AFFECTED BY THE NATIONAL TUNNEL DISCHARGE AND SEEPAGE FROM THE GREGORY INCLINE AND THE QUARTZ HILL TUNNEL. THE DISCHARGES FROM THE FIVE SITES WERE ADDRESSED IN OPERABLE UNIT NO. ONE.

IN ADDITION TO DIRECT DISCHARGE FROM THE MINE TUNNELS, CONTAMINATED WATER MAY ENTER THE CREEKS DURING OVERLAND SHEET FLOW. OVERLAND RUNOFF OCCURS DURING RAPID SNOW MELT AND THUNDERSTORMS. THE RESULTING SURFACE FLOW ACROSS THE TAILINGS AND WASTE ROCK PILES DISSOLVES SOLUBLE MINERALS AND TRANSPORTS PARTICULATE TAILINGS AND WASTE ROCK MATERIAL INTO THE CREEKS. THESE MECHANISMS RESULT IN ELEVATED CREEK ACIDITY AND METAL LOADS. THE INTRODUCTION OF TAILINGS AND WASTE ROCK INTO THE CREEKS COULD ALSO OCCUR DUE TO CATASTROPHIC COLLAPSE OF TAILINGS AND WASTE ROCK PILES DURING A FLASH FLOOD OR AS A RESULT OF UNDERCUTTING OF THE BASE OF THE PILE UNDER ANY FLOW REGIME.

A RECORD OF DECISION ADDRESSING OPERABLE UNIT TWO WAS COMPLETED IN MARCH 1988.

OU3 WAS ORIGINALLY DESIGNATED TO ADDRESS CONTROL OF SURGE EVENTS FROM THE ARGO TUNNEL PURSUANT TO THE PHASE I INVESTIGATION. HOWEVER, OU3 WAS REDESIGNED TO INCLUDE A FINAL DECISION FOR SURGE EVENTS FROM THE ARGO TUNNEL; THE VIRGINIA CANYON GROUND WATER METALS LOADING THAT IMPACTS THE WATER QUALITY OF CLEAR CREEK; REMEDIATION OF SEVERAL MINE WASTE ROCK PILES; A DECISION ON THE BIG 5 TUNNEL DISCHARGE; AND THE BURLEIGH TUNNEL DISCHARGE BASED UPON THE RESULTS OF THE PHASE II INVESTIGATION. THE OU3 ROD WAS SIGNED ON SEPTEMBER 30, 1991. THE PREFERRED REMEDIAL ACTION PLAN SELECTED TO ADDRESS THE BURLEIGH TUNNEL DISCHARGE WAS PASSIVE TREATMENT UTILIZING CONSTRUCTED WETLAND TECHNOLOGY. A ROD AMENDMENT ADDRESSING OU3 WAS COMPLETED IN SEPTEMBER 2003.

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OU 3 WAS ORIGINALLY DESIGNATED TO ADDRESS CONTROL OF SURGE EVENTS OF ACID MINE DRAINAGE FROM THE ARGO TUNNEL. THE SIGNING OF THE OU 3 ROD WAS DELAYED PENDING THE OUTCOME OF ADDITIONAL PHASE II INVESTIGATIONS. IN 1988, A PHASE II REMEDIAL INVESTIGATION (RI) WAS INITIATED TO TAKE A COMPREHENSIVE VIEW OF THE APPROXIMATELY 400 SQUARE MILE CLEAR CREEK DRAINAGE BASIN. THE OU 3 ROD WAS SIGNED ON SEPTEMBER 30, 1991, AND ADDRESSED THE PROBLEMS IDENTIFIED IN THE PHASE II RI. THE OU 3 ROD SUPERSEDED THE ORIGINAL OU 1 ROD. THE OU 2 ROD REMAINED UNCHANGED BY THE OU 3 ROD. THE OU 3 ROD SELECTED A COMBINATION OF ACTIVE TREATMENT FOR THE ARGO TUNNEL, PASSIVE TREATMENT FOR THE BURLEIGH TUNNEL, COLLECTION OF VIRGINIA CANYON GROUND WATER FOR TREATMENT, PROVISION OF AN ALTERNATE DRINKING WATER SUPPLY FOR USERS OF CONTAMINATED GROUND WATER, AND CAPPING, RUNON CONTROLS, RUNOFF CONTROLS, INSTITUTIONAL CONTROLS, AND/OR RETAINING STRUCTURES AS APPLICABLE FOR SELECTED PRIORITY MINE WASTE PILES. THE OU 3 ROD UTILIZED AN INTERIM WAIVER OF APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS (ARARS) TO DEFER A DECISION ON TREATMENT OF THE BIG FIVE TUNNEL, QUARTZ HILL TUNNEL, NATIONAL TUNNEL, AND GREGORY INCLINE. THE OU 4 RI, FEASIBILITY STUDY (FS), AND ROD HAVE SINCE EVALUATED AND ADDRESSED THE NATIONAL AND QUARTZ HILL TUNNELS AND GREGORY INCLINE THROUGH A COMBINATION OF ACTIVE AND PASSIVE TREATMENT SYSTEMS. THE BIG FIVE TUNNEL REQUIRES A FINAL DECISION.

THE OU 3 ROD STATED THAT: "THE INTERIM WAIVER OF APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS (ARARS) WAS INVOKED FOR THE BIG FIVE DISCHARGE. THE BIG FIVE DISCHARGE IS CURRENTLY DESIGNATED AS A PRIORITY DISCHARGE UNDER SECTION 304 (I) OF THE CLEAN WATER ACT BECAUSE IT WAS ORIGINALLY BELIEVED THAT THE DISCHARGE WAS IMPAIRING THE ATTAINMENT OF THE WATER QUALITY STANDARDS FOR CLEAR CREEK".

AS SPECIFIED UNDER THE STATUTORY DETERMINATIONS PORTION AT THE END OF THE OU 3 ROD, THE SELECTED ALTERNATIVE DETAILED UNDER THE OU 3 ROD WAS NOT INTENDED TO BE THE FINAL REMEDY OF THE SITE. BECAUSE THE ACTION PRESENTED UNDER THE OU 3 ROD WAS AN INTERIM ACTION, THE STATUTORY PREFERENCE FOR REMEDIES THAT REDUCE TOXICITY, MOBILITY, OR VOLUME AS A PRINCIPAL ELEMENT WOULD BE ADDRESSED BY THE FINAL RESPONSE ACTION FOR THE SITE. REVIEW OF THE SITE AND OF THE INTERIM REMEDY WOULD BE ONGOING AS THE EPA AND CDPHE CONTINUED TO DEVELOP FINAL REMEDIAL ALTERNATIVES FOR THE SITE.

TREATMENT OF THE BIG FIVE DISCHARGE AFTER IT IS CONVEYED TO THE EXISTING ARGO WATER TREATMENT FACILITY WILL REMOVE IT AS A PRIORITY DISCHARGE UNDER SECTION 304(1) AND MEET THE ARARS. INCLUSION OF THE BIG FIVE TUNNEL DISCHARGE IN THE INDIVIDUAL CONTROL STRATEGY AND DISCHARGE CONTROL MECHANISM FOR TREATMENT OF THE ARGO TUNNEL DISCHARGE WILL MEET REGULATORY REQUIREMENTS. THE INTERIM WAIVER WILL NO LONGER BE NECESSARY AND WILL BE WITHDRAWN. THEREFORE, ADDRESSING THE BIG FIVE DISCHARGE AS AN ELEMENT OF THE FINAL RESPONSE ACTION AT THE SITE WITH RESPECT TO ELIMINATING THE TOXICITY OF THIS DISCHARGE TO HUMAN HEALTH AND THE ENVIRONMENT, AS DISCUSSED IN THIS EXPLANATION OF SIGNIFICANT DIFFERENCE (ESD), IS APPROPRIATE.

A ROD ADDRESSING OU 3 WAS COMPLETED IN SEPTEMBER OF 1991. AN ESD PERTAINING TO THE OU3 ROD WAS COMPLETED IN JUNE OF 2005.

OU4:

OU4 WAS DESIGNATED IN 1999 AND INCLUDES SEDIMENT CONTROL ON THE NORTH FORK OF CLEAR CREEK AS WELL AND TRIBUTARIES TO THE NORTH FORK, WASTE ROCK PILES IN VIRGINIA CANYON, CLEAR CREEK MAINSTEM WASTE ROCK PILES, AN ON-SITE REPOSITORY TO CONSOLIDATE MINE WASTE ROCK, AND THE NORTH FORK AND MAIN STEM CLEAR CREEK RI/FS.

THE CLEAR CREEK/CENTRAL CITY SUPERFUND STUDY AREA COVERS THE APPROXIMATELY 400 SQUARE-MILE CLEAR CREEK WATERSHED, LOCATED IN THE FRONT RANGE OF THE COLORADO ROCKY MOUNTAINS. THE BASIN OF THE NORTH FORK OF CLEAR CREEK ENCOMPASSES APPROXIMATELY 60 SQUARE MILES OF THIS STUDY AREA, AND HAS BEEN

National Priorities List (NPL)

DESIGNATED AS OPERABLE UNIT (OU) 4 OF THE CLEAR CREEK/CENTRAL CITY SUPERFUND SITE. OU 4 ENCOMPASSES THE NORTH FORK OF CLEAR CREEK AND ITS TRIBUTARIES AND THE MAIN STEM OF CLEAR CREEK FROM THE CONFLUENCE WITH THE NORTH FORK TO THE CITY OF GOLDEN, COLORADO. OU 4 CONSISTS OF HIGHLY VARIABLE MOUNTAINOUS TERRAIN CHARACTERIZED BY STEEP-WALLED CANYONS AND NARROW VALLEY FLOORS. CITIES WITHIN OU 4 ARE CENTRAL CITY AND BLACK HAWK. THESE CITIES HAVE EXPERIENCED ACCELERATED DEVELOPMENT SINCE THE INTRODUCTION OF GAMBLING IN 1991.

ELEVATED METALS CONCENTRATIONS ARE THE RISK DRIVERS WITHIN OU 4. THE METALS, OR CONTAMINANTS, OF CONCERN FOR AQUATIC LIFE ARE ZINC, COPPER, CADMIUM, AND MANGANESE, AND OF CONCERN FOR HUMAN HEALTH ARE LEAD AND ARSENIC. THE MAJORITY OF THESE METALS POSE ACUTE OR CHRONIC THREATS TO AQUATIC ORGANISMS WHICH ARE MORE SENSITIVE TO THEIR HIGH CONCENTRATIONS THAN ARE HUMANS. THE RISK TO HUMAN HEALTH DUE TO EXPOSURE TO MINE WASTES IS LOW, BUT IS ASSOCIATED WITH INGESTION OF WASTE ROCK AND INHALATION OF WASTE ROCK DUST. ECOLOGICAL RISK IS THE PRIMARY DRIVER OF CLEANUP ACTIONS AT OU 4 AND IS MAINLY ASSOCIATED WITH DIRECT EXPOSURE TO METALS-CONTAMINATED SURFACE WATER.

IN ADDITION TO THE DELETERIOUS EFFECTS OF MINE WASTES, THE AREAS OF POOR FISH HABITAT ALONG THE NORTH FORK ALSO THREATEN THE SURVIVAL OF TROUT SPECIES. IN SOME PLACES THE VALLEY THROUGH WHICH THE NORTH FORK FLOWS HAS BEEN SEVERELY NARROWED DUE TO HISTORIC MINING AND RECENT DEVELOPMENT. THIS HAS RESULTED IN THE CHANNELIZATION OF THE RIVER AND A DECREASE IN THE AMOUNT OF POOLS, RIFFLES, AND STREAM BANK VEGETATION THAT IS NECESSARY TO PROVIDE THRIVING FISH HABITAT.

CURRENT LAND USES WITHIN OU 4 INCLUDE RESIDENTIAL, RECREATION, AND TO A LIMITED EXTENT, AGRICULTURE AND RANCHING. THE CLEAR CREEK WATERSHED IS A POPULAR OUTDOOR RECREATION AREA FOR RESIDENTS ALONG THE FRONT RANGE. POPULAR ACTIVITIES INCLUDE HIKING, CAMPING, AND ALL-TERRAIN VEHICLE (ATV) RIDING. THE MAJORITY OF THE LAND WITHIN OU 4, NOT INCLUDING THE BLACK HAWK AND CENTRAL CITY AREAS, HAS A FORESTRY ZONING DESIGNATION, WHICH IS A BROAD DESIGNATION THAT DOES NOT PRECLUDE DEVELOPMENT OF THE LAND FOR RESIDENTIAL OR COMMERCIAL USE. BASED ON DISCUSSIONS WITH GILPIN COUNTY PLANNING OFFICIALS, FUTURE LAND USES WITHIN OU 4 COULD POTENTIALLY INCLUDE RESIDENTIAL AND COMMERCIAL USE IN ADDITION TO THE CURRENT USES OF THE LAND.

THE CLEAR CREEK WATERSHED IS A POPULAR RECREATION DESTINATION. RECREATIONAL SURFACE WATER USES WITHIN THE NORTH FORK BASIN (OU 4) INCLUDE FISHING, SWIMMING, GOLD PANNING, AND RECREATIONAL MINING. BASED ON THE RELATIVE LOW FLOW OF THE NORTH FORK COMPARED TO THE MAIN STEM OF CLEAR CREEK, AS WELL AS THE CONFINING NATURE OF THE VALLEY THROUGH WHICH THE NORTH FORK FLOWS, FUTURE USES OF THE SURFACE WATER WITHIN OU 4 ARE NOT EXPECTED TO CHANGE.

GROUND WATER WITHIN OU 4 IS CURRENTLY USED AS A DRINKING WATER SOURCE FOR RESIDENTS WHO LIVE OUTSIDE OF THE BLACK HAWK OR CENTRAL CITY BOUNDARIES WHERE CONNECTIONS TO MUNICIPAL WATER SUPPLIES ARE NOT FEASIBLE. THESE RESIDENTS ARE SCATTERED THROUGHOUT THE OU 4 BASIN OR CLUSTERED IN VERY SMALL TOWNS WITHIN NEVADA AND RUSSELL GULCHES. UNCONFINED BEDROCK AQUIFERS SUPPLY THIS DRINKING WATER. THESE AQUIFERS OFTEN OCCUR IN HIGHLY FRACTURED BEDROCK ZONES, MAKING GROUND WATER CHARACTERIZATION DIFFICULT. FUTURE USES OF GROUND WATER AS A DRINKING WATER SOURCE MAY INCREASE IF THE POPULATION UTILIZING GROUND WATER WELLS INCREASES. HOWEVER, THE TYPES OF GROUND WATER USE WITHIN THE STUDY AREA ARE NOT EXPECTED TO CHANGE IN THE FUTURE.

A RECORD OF DECISION ADDRESSING OU 4 WAS COMPLETED IN SEPTEMBER 2004.

WHILE NOT DIRECTLY ADDRESSED BY THE OUS 3 AND 4 RODS, CDPHE AND EPA HAD BEEN CONSIDERING THE OPTION OF CONSTRUCTING A MINE WASTE REPOSITORY TO BE USED FOR RELOCATING MINE WASTE PILE MATERIAL AND WATER TREATMENT PLANT SOLIDS GENERATED BY CENTRAL CITY/CLEAR CREEK CERCLA RESPONSE PROJECTS SUCH AS THE ARGO TUNNEL TREATMENT PLANT IN IDAHO SPRINGS. THE OU 4 ROD DISCUSSES THE OPTION OF RELOCATING WASTE

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PILES AND WATER TREATMENT SOLIDS TO AN ON-SITE REPOSITORY AS PART OF THE SELECTED REMEDIAL OPTION, BUT THE ROD DOES NOT EXPLICITLY INCLUDE CONSTRUCTION OF A REPOSITORY AS A SELECTED REMEDIAL ACTION COMPONENT. THE CDPHE AND EPA NOW ADD THE REPOSITORY COMPONENT TO THE PREVIOUSLY SELECTED REMEDIES TO PROVIDE AN ADDITIONAL PROTECTIVE, EFFICIENT AND EFFECTIVE WAY OF ADDRESSING MINE WASTES AND DISPOSING OF WATER TREATMENT PLANT SOLIDS.

A ROD AMENDMENT ADDRESSING OU 4 AND OU 3 WAS COMPLETED IN SEPTEMBER OF 2006.

SITE HISTORY - NO SITE HISTORY INFORMATION AVAILABLE -

ACTIONS

TYPE: RD - REMEDIAL DESIGN

START DATE: 09/30/1991

COMPLETION DATE: 05/02/2005

ACTION TYPE DEFINITION:

THE PROCESS OF FULLY DETAILING AND SPECIFYING THE SELECTED REMEDY IDENTIFIED IN THE ROD OR EDD.

TYPE: RD - REMEDIAL DESIGN

START DATE: 09/30/1991

COMPLETION DATE: 09/09/2002

ACTION TYPE DEFINITION:

THE PROCESS OF FULLY DETAILING AND SPECIFYING THE SELECTED REMEDY IDENTIFIED IN THE ROD OR EDD.

TYPE: RD - REMEDIAL DESIGN

START DATE: 09/30/1991

COMPLETION DATE: 09/28/2005

ACTION TYPE DEFINITION:

THE PROCESS OF FULLY DETAILING AND SPECIFYING THE SELECTED REMEDY IDENTIFIED IN THE ROD OR EDD.

TYPE: RD - REMEDIAL DESIGN

START DATE: 04/01/2005

COMPLETION DATE: 09/29/2006

ACTION TYPE DEFINITION:

THE PROCESS OF FULLY DETAILING AND SPECIFYING THE SELECTED REMEDY IDENTIFIED IN THE ROD OR EDD.

TYPE: RD - REMEDIAL DESIGN

START DATE: 09/21/1995

COMPLETION DATE: 09/29/2006

ACTION TYPE DEFINITION:

THE PROCESS OF FULLY DETAILING AND SPECIFYING THE SELECTED REMEDY IDENTIFIED IN THE ROD OR EDD.

TYPE: RD - REMEDIAL DESIGN

START DATE: 09/21/1995

COMPLETION DATE: 05/21/1999

ACTION TYPE DEFINITION:

THE PROCESS OF FULLY DETAILING AND SPECIFYING THE SELECTED REMEDY IDENTIFIED IN THE ROD OR EDD.

TYPE: RD - REMEDIAL DESIGN

START DATE: 09/30/1991

COMPLETION DATE: 09/22/2003

ACTION TYPE DEFINITION:

THE PROCESS OF FULLY DETAILING AND SPECIFYING THE SELECTED REMEDY IDENTIFIED IN THE ROD OR EDD.

TYPE: RD - REMEDIAL DESIGN

START DATE: 04/12/2010

National Priorities List (NPL)

COMPLETION DATE: 06/26/2012

ACTION TYPE DEFINITION:

THE PROCESS OF FULLY DETAILING AND SPECIFYING THE SELECTED REMEDY IDENTIFIED IN THE ROD OR EDD.

TYPE: RD - REMEDIAL DESIGN

START DATE: 09/21/1995

COMPLETION DATE: 08/12/2002

ACTION TYPE DEFINITION:

THE PROCESS OF FULLY DETAILING AND SPECIFYING THE SELECTED REMEDY IDENTIFIED IN THE ROD OR EDD.

TYPE: RD - REMEDIAL DESIGN

START DATE: 09/30/1991

COMPLETION DATE: 09/14/2004

ACTION TYPE DEFINITION:

THE PROCESS OF FULLY DETAILING AND SPECIFYING THE SELECTED REMEDY IDENTIFIED IN THE ROD OR EDD.

TYPE: RD - REMEDIAL DESIGN

START DATE: 09/30/1991

COMPLETION DATE: 09/30/2004

ACTION TYPE DEFINITION:

THE PROCESS OF FULLY DETAILING AND SPECIFYING THE SELECTED REMEDY IDENTIFIED IN THE ROD OR EDD.

TYPE: RD - REMEDIAL DESIGN

START DATE: 09/30/1991

COMPLETION DATE: 09/25/2008

ACTION TYPE DEFINITION:

THE PROCESS OF FULLY DETAILING AND SPECIFYING THE SELECTED REMEDY IDENTIFIED IN THE ROD OR EDD.

TYPE: RD - REMEDIAL DESIGN

START DATE: 04/01/2005

COMPLETION DATE: 09/27/2012

ACTION TYPE DEFINITION:

THE PROCESS OF FULLY DETAILING AND SPECIFYING THE SELECTED REMEDY IDENTIFIED IN THE ROD OR EDD.

TYPE: RD - REMEDIAL DESIGN

START DATE: 04/01/2005

COMPLETION DATE: 03/31/2011

ACTION TYPE DEFINITION:

THE PROCESS OF FULLY DETAILING AND SPECIFYING THE SELECTED REMEDY IDENTIFIED IN THE ROD OR EDD.

TYPE: RD - REMEDIAL DESIGN

START DATE: 03/13/2012

COMPLETION DATE: NR

ACTION TYPE DEFINITION:

THE PROCESS OF FULLY DETAILING AND SPECIFYING THE SELECTED REMEDY IDENTIFIED IN THE ROD OR EDD.

TYPE: RD - REMEDIAL DESIGN

START DATE: 03/13/2012

COMPLETION DATE: 09/30/2013

ACTION TYPE DEFINITION:

THE PROCESS OF FULLY DETAILING AND SPECIFYING THE SELECTED REMEDY IDENTIFIED IN THE ROD OR EDD.

TYPE: RI - REMEDIAL INVESTIGATION

START DATE: 09/23/1983

COMPLETION DATE: 04/09/1987

National Priorities List (NPL)

ACTION TYPE DEFINITION:

AN INVESTIGATION INTENDED TO GATHER THE DATA NECESSARY TO: (1) DETERMINE THE NATURE AND EXTENT OF PROBLEMS AT THE SITE; (2) ESTABLISH CLEANUP CRITERIA FOR THE SITE; (3) IDENTIFY PRELIMINARY ALTERNATIVE REMEDIAL ACTIONS; AND (4) SUPPORT THE TECHNICAL AND COST ANALYSES OF THE ALTERNATIVES.

TYPE: RI - REMEDIAL INVESTIGATION

START DATE: 06/15/1988

COMPLETION DATE: 09/21/1990

ACTION TYPE DEFINITION:

AN INVESTIGATION INTENDED TO GATHER THE DATA NECESSARY TO: (1) DETERMINE THE NATURE AND EXTENT OF PROBLEMS AT THE SITE; (2) ESTABLISH CLEANUP CRITERIA FOR THE SITE; (3) IDENTIFY PRELIMINARY ALTERNATIVE REMEDIAL ACTIONS; AND (4) SUPPORT THE TECHNICAL AND COST ANALYSES OF THE ALTERNATIVES.

TYPE: RD - REMEDIAL DESIGN

START DATE: 09/30/1991

COMPLETION DATE: 09/25/2008

ACTION TYPE DEFINITION:

THE PROCESS OF FULLY DETAILING AND SPECIFYING THE SELECTED REMEDY IDENTIFIED IN THE ROD OR EDD.

TYPE: RA - REMEDIAL ACTION - LONG TERM ACTION

START DATE: 09/29/1993

COMPLETION DATE: 11/17/2003

ACTION TYPE DEFINITION:

THE IMPLEMENTATION OF A PERMANENT RESOLUTION TO ADDRESS A RELEASE OR POTENTIAL RELEASE OF A HAZARDOUS SUBSTANCE FROM A SITE.

TYPE: RN - REMOVAL NEGOTIATIONS

START DATE: 08/28/1995

COMPLETION DATE: 08/21/1996

ACTION TYPE DEFINITION:

REMOVAL NEGOTIATIONS ARE DEFINED AS DISCUSSIONS BETWEEN EPA AND THE POTENTIALLY RESPONSIBLE PARTIES (PRPS) ON THE LIABILITY FOR AND CONDUCT OF A REMOVAL.

TYPE: RO - RECORD OF DECISION

START DATE: NR

COMPLETION DATE: 09/30/1987

ACTION TYPE DEFINITION:

THE FINAL RECORD OF DECISION (ROD) IS SIGNED BY THE APPROPRIATE AGENCY INDICATING THAT THE AGENCY HAS CHOSEN THE REMEDY FOR SITE REMEDIATION. ROD SIGNATURE IS SIGNIFIED BY THE COMPLETE DATE.

TYPE: RD - REMEDIAL DESIGN

START DATE: 04/01/2005

COMPLETION DATE: 08/21/2009

ACTION TYPE DEFINITION:

THE PROCESS OF FULLY DETAILING AND SPECIFYING THE SELECTED REMEDY IDENTIFIED IN THE ROD OR EDD.

TYPE: RA - REMEDIAL ACTION

START DATE: 09/28/2006

COMPLETION DATE: NR

ACTION TYPE DEFINITION:

THE IMPLEMENTATION OF A PERMANENT RESOLUTION TO ADDRESS A RELEASE OR POTENTIAL RELEASE OF A HAZARDOUS SUBSTANCE FROM A SITE.

TYPE: TA - TECHNICAL ASSISTANCE

National Priorities List (NPL)

START DATE: 05/31/1994

COMPLETION DATE: 06/16/1994

ACTION TYPE DEFINITION:

PARTICIPATION IN THE CONDUCT OF FUND-FINANCED REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS).

TYPE: **RO - RECORD OF DECISION**

START DATE: **NR**

COMPLETION DATE: 03/31/1988

ACTION TYPE DEFINITION:

THE FINAL RECORD OF DECISION (ROD) IS SIGNED BY THE APPROPRIATE AGENCY INDICATING THAT THE AGENCY HAS CHOSEN THE REMEDY FOR SITE REMEDIATION. ROD SIGNATURE IS SIGNIFIED BY THE COMPLETE DATE.

TYPE: **RA - REMEDIAL ACTION**

START DATE: 09/30/1992

COMPLETION DATE: 02/12/1997

ACTION TYPE DEFINITION:

THE IMPLEMENTATION OF A PERMANENT RESOLUTION TO ADDRESS A RELEASE OR POTENTIAL RELEASE OF A HAZARDOUS SUBSTANCE FROM A SITE.

TYPE: **RA - REMEDIAL ACTION**

START DATE: 09/29/1993

COMPLETION DATE: 01/06/1995

ACTION TYPE DEFINITION:

THE IMPLEMENTATION OF A PERMANENT RESOLUTION TO ADDRESS A RELEASE OR POTENTIAL RELEASE OF A HAZARDOUS SUBSTANCE FROM A SITE.

TYPE: **RA - REMEDIAL ACTION**

START DATE: 09/29/1993

COMPLETION DATE: 09/28/1999

ACTION TYPE DEFINITION:

THE IMPLEMENTATION OF A PERMANENT RESOLUTION TO ADDRESS A RELEASE OR POTENTIAL RELEASE OF A HAZARDOUS SUBSTANCE FROM A SITE.

TYPE: **RA - REMEDIAL ACTION**

START DATE: 09/29/1993

COMPLETION DATE: 05/09/2013

ACTION TYPE DEFINITION:

THE IMPLEMENTATION OF A PERMANENT RESOLUTION TO ADDRESS A RELEASE OR POTENTIAL RELEASE OF A HAZARDOUS SUBSTANCE FROM A SITE.

TYPE: **RA - REMEDIAL ACTION**

START DATE: 09/29/1993

COMPLETION DATE: **NR**

ACTION TYPE DEFINITION:

THE IMPLEMENTATION OF A PERMANENT RESOLUTION TO ADDRESS A RELEASE OR POTENTIAL RELEASE OF A HAZARDOUS SUBSTANCE FROM A SITE.

TYPE: **RA - REMEDIAL ACTION**

START DATE: 09/15/1997

COMPLETION DATE: 08/25/2000

ACTION TYPE DEFINITION:

THE IMPLEMENTATION OF A PERMANENT RESOLUTION TO ADDRESS A RELEASE OR POTENTIAL RELEASE OF A HAZARDOUS SUBSTANCE FROM A SITE.

National Priorities List (NPL)

TYPE: RA - REMEDIAL ACTION - LONG TERM ACTION

START DATE: 09/28/2006

COMPLETION DATE: 09/25/2008

ACTION TYPE DEFINITION:

THE IMPLEMENTATION OF A PERMANENT RESOLUTION TO ADDRESS A RELEASE OR POTENTIAL RELEASE OF A HAZARDOUS SUBSTANCE FROM A SITE.

TYPE: RA - REMEDIAL ACTION - LONG TERM ACTION

START DATE: 12/20/1999

COMPLETION DATE: 05/22/2003

ACTION TYPE DEFINITION:

THE IMPLEMENTATION OF A PERMANENT RESOLUTION TO ADDRESS A RELEASE OR POTENTIAL RELEASE OF A HAZARDOUS SUBSTANCE FROM A SITE.

TYPE: RA - REMEDIAL ACTION - LONG TERM ACTION

START DATE: 05/17/2005

COMPLETION DATE: 03/31/2006

ACTION TYPE DEFINITION:

THE IMPLEMENTATION OF A PERMANENT RESOLUTION TO ADDRESS A RELEASE OR POTENTIAL RELEASE OF A HAZARDOUS SUBSTANCE FROM A SITE.

TYPE: RD - REMEDIAL DESIGN

START DATE: 06/27/1988

COMPLETION DATE: 03/29/1989

ACTION TYPE DEFINITION:

THE PROCESS OF FULLY DETAILING AND SPECIFYING THE SELECTED REMEDY IDENTIFIED IN THE ROD OR EDD.

TYPE: RA - REMEDIAL ACTION

START DATE: 09/28/2006

COMPLETION DATE: 06/14/2011

ACTION TYPE DEFINITION:

THE IMPLEMENTATION OF A PERMANENT RESOLUTION TO ADDRESS A RELEASE OR POTENTIAL RELEASE OF A HAZARDOUS SUBSTANCE FROM A SITE.

TYPE: RA - REMEDIAL ACTION

START DATE: 05/17/2005

COMPLETION DATE: 03/31/2006

ACTION TYPE DEFINITION:

THE IMPLEMENTATION OF A PERMANENT RESOLUTION TO ADDRESS A RELEASE OR POTENTIAL RELEASE OF A HAZARDOUS SUBSTANCE FROM A SITE.

TYPE: RA - REMEDIAL ACTION

START DATE: 09/28/2006

COMPLETION DATE: 02/26/2009

ACTION TYPE DEFINITION:

THE IMPLEMENTATION OF A PERMANENT RESOLUTION TO ADDRESS A RELEASE OR POTENTIAL RELEASE OF A HAZARDOUS SUBSTANCE FROM A SITE.

TYPE: RA - REMEDIAL ACTION - LONG TERM ACTION

START DATE: 09/27/2013

COMPLETION DATE: NR

ACTION TYPE DEFINITION:

THE IMPLEMENTATION OF A PERMANENT RESOLUTION TO ADDRESS A RELEASE OR POTENTIAL RELEASE OF A

National Priorities List (NPL)

HAZARDOUS SUBSTANCE FROM A SITE.

TYPE: RA - REMEDIAL ACTION

START DATE: 09/28/2006

COMPLETION DATE: 04/29/2010

ACTION TYPE DEFINITION:

THE IMPLEMENTATION OF A PERMANENT RESOLUTION TO ADDRESS A RELEASE OR POTENTIAL RELEASE OF A HAZARDOUS SUBSTANCE FROM A SITE.

TYPE: RA - REMEDIAL ACTION

START DATE: 04/07/2008

COMPLETION DATE: NR

ACTION TYPE DEFINITION:

THE IMPLEMENTATION OF A PERMANENT RESOLUTION TO ADDRESS A RELEASE OR POTENTIAL RELEASE OF A HAZARDOUS SUBSTANCE FROM A SITE.

TYPE: RA - REMEDIAL ACTION

START DATE: 06/02/2008

COMPLETION DATE: NR

ACTION TYPE DEFINITION:

THE IMPLEMENTATION OF A PERMANENT RESOLUTION TO ADDRESS A RELEASE OR POTENTIAL RELEASE OF A HAZARDOUS SUBSTANCE FROM A SITE.

TYPE: RA - REMEDIAL ACTION - LONG TERM ACTION

START DATE: 02/23/2012

COMPLETION DATE: NR

ACTION TYPE DEFINITION:

THE IMPLEMENTATION OF A PERMANENT RESOLUTION TO ADDRESS A RELEASE OR POTENTIAL RELEASE OF A HAZARDOUS SUBSTANCE FROM A SITE.

TYPE: RD - REMEDIAL DESIGN

START DATE: 06/15/1988

COMPLETION DATE: 09/30/1991

ACTION TYPE DEFINITION:

THE PROCESS OF FULLY DETAILING AND SPECIFYING THE SELECTED REMEDY IDENTIFIED IN THE ROD OR EDD.

TYPE: RA - REMEDIAL ACTION - LONG TERM ACTION

START DATE: 08/04/2005

COMPLETION DATE: 09/28/2005

ACTION TYPE DEFINITION:

THE IMPLEMENTATION OF A PERMANENT RESOLUTION TO ADDRESS A RELEASE OR POTENTIAL RELEASE OF A HAZARDOUS SUBSTANCE FROM A SITE.

TYPE: UA - UNILATERAL ADMIN ORDER

START DATE: NR

COMPLETION DATE: 07/15/1994

ACTION TYPE DEFINITION:

ADMINISTRATIVE ORDER ISSUED BY EPA UNILATERALLY (UNDER SECTION 106 OF SARA). UNILATERAL ORDERS CAN COMPEL POTENTIALLY RESPONSIBLE PARTIES (PRPS) TO CONDUCT REMOVAL, REMEDIAL INVESTIGATION/FEASIBILITY STUDY, REMEDIAL DESIGN/REMEDIAL ACTION, AND MAY INCLUDE COST RECOVERY. COMMONLY ABBREVIATED UAO.

TYPE: TA - TECHNICAL ASSISTANCE

START DATE: 12/30/1990

COMPLETION DATE: 09/30/1991

National Priorities List (NPL)

ACTION TYPE DEFINITION:

PARTICIPATION IN THE CONDUCT OF FUND-FINANCED REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS).

TYPE: **TA - TECHNICAL ASSISTANCE**

START DATE: **12/19/1989**

COMPLETION DATE: **01/09/1997**

ACTION TYPE DEFINITION:

PARTICIPATION IN THE CONDUCT OF FUND-FINANCED REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS).

TYPE: **TA - TECHNICAL ASSISTANCE**

START DATE: **12/27/1990**

COMPLETION DATE: **NR**

ACTION TYPE DEFINITION:

PARTICIPATION IN THE CONDUCT OF FUND-FINANCED REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS).

TYPE: **TA - TECHNICAL ASSISTANCE**

START DATE: **03/04/1991**

COMPLETION DATE: **06/30/1994**

ACTION TYPE DEFINITION:

PARTICIPATION IN THE CONDUCT OF FUND-FINANCED REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS).

TYPE: **TA - TECHNICAL ASSISTANCE**

START DATE: **08/02/1994**

COMPLETION DATE: **07/29/1996**

ACTION TYPE DEFINITION:

PARTICIPATION IN THE CONDUCT OF FUND-FINANCED REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS).

TYPE: **TA - TECHNICAL ASSISTANCE**

START DATE: **09/26/1994**

COMPLETION DATE: **09/30/1999**

ACTION TYPE DEFINITION:

PARTICIPATION IN THE CONDUCT OF FUND-FINANCED REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS).

TYPE: **TA - TECHNICAL ASSISTANCE**

START DATE: **06/22/1988**

COMPLETION DATE: **01/09/1997**

ACTION TYPE DEFINITION:

PARTICIPATION IN THE CONDUCT OF FUND-FINANCED REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS).

TYPE: **TA - TECHNICAL ASSISTANCE**

START DATE: **11/02/1995**

COMPLETION DATE: **05/30/2003**

ACTION TYPE DEFINITION:

PARTICIPATION IN THE CONDUCT OF FUND-FINANCED REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS).

TYPE: **TA - TECHNICAL ASSISTANCE**

START DATE: **06/05/1997**

COMPLETION DATE: **09/30/2002**

ACTION TYPE DEFINITION:

PARTICIPATION IN THE CONDUCT OF FUND-FINANCED REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS).

TYPE: **TA - TECHNICAL ASSISTANCE**

START DATE: **06/27/1988**

COMPLETION DATE: **01/09/1997**

ACTION TYPE DEFINITION:

National Priorities List (NPL)

PARTICIPATION IN THE CONDUCT OF FUND-FINANCED REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS).

TYPE: **TG - TECHNICAL ASSISTANCE GRANT**

START DATE: **09/23/1994**

COMPLETION DATE: **05/18/2001**

ACTION TYPE DEFINITION:

A GRANT OF UP TO \$50,000 PROVIDED UNDER SARA TO A COMMUNITY FOR TECHNICAL ASSISTANCE IN DEALING WITH SUPERFUND ISSUES AT A NATIONAL PRIORITY LIST (NPL) SITE.

TYPE: **TA - TECHNICAL ASSISTANCE**

START DATE: **07/15/1986**

COMPLETION DATE: **01/18/1994**

ACTION TYPE DEFINITION:

PARTICIPATION IN THE CONDUCT OF FUND-FINANCED REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS).

TYPE: **UA - UNILATERAL ADMIN ORDER**

START DATE: **NR**

COMPLETION DATE: **06/02/1995**

ACTION TYPE DEFINITION:

ADMINISTRATIVE ORDER ISSUED BY EPA UNILATERALLY (UNDER SECTION 106 OF SARA). UNILATERAL ORDERS CAN COMPEL POTENTIALLY RESPONSIBLE PARTIES (PRPS) TO CONDUCT REMOVAL, REMEDIAL INVESTIGATION/FEASIBILITY STUDY, REMEDIAL DESIGN/REMEDIAL ACTION, AND MAY INCLUDE COST RECOVERY. COMMONLY ABBREVIATED UAO.

TYPE: **UA - UNILATERAL ADMIN ORDER**

START DATE: **NR**

COMPLETION DATE: **06/02/1995**

ACTION TYPE DEFINITION:

ADMINISTRATIVE ORDER ISSUED BY EPA UNILATERALLY (UNDER SECTION 106 OF SARA). UNILATERAL ORDERS CAN COMPEL POTENTIALLY RESPONSIBLE PARTIES (PRPS) TO CONDUCT REMOVAL, REMEDIAL INVESTIGATION/FEASIBILITY STUDY, REMEDIAL DESIGN/REMEDIAL ACTION, AND MAY INCLUDE COST RECOVERY. COMMONLY ABBREVIATED UAO.

TYPE: **UA - UNILATERAL ADMIN ORDER**

START DATE: **NR**

COMPLETION DATE: **09/19/1997**

ACTION TYPE DEFINITION:

ADMINISTRATIVE ORDER ISSUED BY EPA UNILATERALLY (UNDER SECTION 106 OF SARA). UNILATERAL ORDERS CAN COMPEL POTENTIALLY RESPONSIBLE PARTIES (PRPS) TO CONDUCT REMOVAL, REMEDIAL INVESTIGATION/FEASIBILITY STUDY, REMEDIAL DESIGN/REMEDIAL ACTION, AND MAY INCLUDE COST RECOVERY. COMMONLY ABBREVIATED UAO.

TYPE: **UA - UNILATERAL ADMIN ORDER**

START DATE: **NR**

COMPLETION DATE: **09/05/1997**

ACTION TYPE DEFINITION:

ADMINISTRATIVE ORDER ISSUED BY EPA UNILATERALLY (UNDER SECTION 106 OF SARA). UNILATERAL ORDERS CAN COMPEL POTENTIALLY RESPONSIBLE PARTIES (PRPS) TO CONDUCT REMOVAL, REMEDIAL INVESTIGATION/FEASIBILITY STUDY, REMEDIAL DESIGN/REMEDIAL ACTION, AND MAY INCLUDE COST RECOVERY. COMMONLY ABBREVIATED UAO.

TYPE: **UA - UNILATERAL ADMIN ORDER**

START DATE: **NR**

COMPLETION DATE: **09/05/1997**

ACTION TYPE DEFINITION:

ADMINISTRATIVE ORDER ISSUED BY EPA UNILATERALLY (UNDER SECTION 106 OF SARA). UNILATERAL ORDERS CAN COMPEL POTENTIALLY RESPONSIBLE PARTIES (PRPS) TO CONDUCT REMOVAL, REMEDIAL INVESTIGATION/FEASIBILITY

National Priorities List (NPL)

STUDY, REMEDIAL DESIGN/REMEDIAL ACTION, AND MAY INCLUDE COST RECOVERY. COMMONLY ABBREVIATED UAO.

TYPE: **UA - UNILATERAL ADMIN ORDER**

START DATE: **NR**

COMPLETION DATE: **09/05/1997**

ACTION TYPE DEFINITION:

ADMINISTRATIVE ORDER ISSUED BY EPA UNILATERALLY (UNDER SECTION 106 OF SARA). UNILATERAL ORDERS CAN COMPEL POTENTIALLY RESPONSIBLE PARTIES (PRPS) TO CONDUCT REMOVAL, REMEDIAL INVESTIGATION/FEASIBILITY STUDY, REMEDIAL DESIGN/REMEDIAL ACTION, AND MAY INCLUDE COST RECOVERY. COMMONLY ABBREVIATED UAO.

TYPE: **UA - UNILATERAL ADMIN ORDER**

START DATE: **NR**

COMPLETION DATE: **09/19/1997**

ACTION TYPE DEFINITION:

ADMINISTRATIVE ORDER ISSUED BY EPA UNILATERALLY (UNDER SECTION 106 OF SARA). UNILATERAL ORDERS CAN COMPEL POTENTIALLY RESPONSIBLE PARTIES (PRPS) TO CONDUCT REMOVAL, REMEDIAL INVESTIGATION/FEASIBILITY STUDY, REMEDIAL DESIGN/REMEDIAL ACTION, AND MAY INCLUDE COST RECOVERY. COMMONLY ABBREVIATED UAO.

TYPE: **WP - REMEDIAL INVESTIGATION/FEASIBILITY STUDY WORKPLAN APPROVAL BY HQ**

START DATE: **02/14/1983**

COMPLETION DATE: **07/15/1985**

ACTION TYPE DEFINITION:

APPROVAL OF THE REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) WORKPLAN, WHICH IS A DESCRIPTION OF THE TASKS AND RESOURCES PLANNED FOR THE RI/FS.

TYPE: **RV - REMOVAL - EMERGENCY**

START DATE: **08/01/1991**

COMPLETION DATE: **09/14/1991**

ACTION TYPE DEFINITION:

RESPONSE ACTION THAT REQUIRES EXPEDITIOUS ATTENTION TO REDUCE IMMINENT AND SUBSTANTIAL DANGERS TO HUMAN HEALTH, WELFARE, OR THE ENVIRONMENT OR AN EMERGENCY RESPONSE REQUIRED WITHIN HOURS OR DAYS TO ADDRESS ACUTE SITUATIONS INVOLVING ACTUAL OR POTENTIAL THREAT TO HUMAN HEALTH, THE ENVIRONMENT, OR REAL OR PERSONAL PROPERTY DUE TO THE RELEASE OF A HAZARDOUS SUBSTANCE. CHARACTERIZATION OF A REMOVAL ACTION AS REMOVAL, NOT IMMEDIATE REMOVAL OR PLANNED REMOVAL, STARTED AT THE BEGINNING OF FY 1987. THIS CODE NOW TAKES THE PLACE OF IMMEDIATE REMOVAL (IR) AND PLANNED REMOVAL (PR).

TYPE: **TA - TECHNICAL ASSISTANCE**

START DATE: **07/11/2011**

COMPLETION DATE: **NR**

ACTION TYPE DEFINITION:

PARTICIPATION IN THE CONDUCT OF FUND-FINANCED REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS).

TYPE: **RA - REMEDIAL ACTION**

START DATE: **03/29/1989**

COMPLETION DATE: **09/30/1991**

ACTION TYPE DEFINITION:

THE IMPLEMENTATION OF A PERMANENT RESOLUTION TO ADDRESS A RELEASE OR POTENTIAL RELEASE OF A HAZARDOUS SUBSTANCE FROM A SITE.

TYPE: **RO - RECORD OF DECISION**

START DATE: **NR**

COMPLETION DATE: **09/29/2004**

ACTION TYPE DEFINITION:

National Priorities List (NPL)

THE FINAL RECORD OF DECISION (ROD) IS SIGNED BY THE APPROPRIATE AGENCY INDICATING THAT THE AGENCY HAS CHOSEN THE REMEDY FOR SITE REMEDIATION. ROD SIGNATURE IS SIGNIFIED BY THE COMPLETE DATE.

TYPE: RP - NON-NATIONAL PRIORITIES LIST POTENTIALLY RESPONSIBLE PARTY SEARCH

START DATE: 06/30/1990

COMPLETION DATE: 09/04/1991

ACTION TYPE DEFINITION:

THE NON-NPL POTENTIALLY RESPONSIBLE PARTY (PRP) SEARCH IS TO IDENTIFY PRPS AT NON-NPL OR REMOVAL ACTION SITES.

TYPE: RP - NON-NATIONAL PRIORITIES LIST POTENTIALLY RESPONSIBLE PARTY SEARCH

START DATE: 09/04/1991

COMPLETION DATE: 01/14/1994

ACTION TYPE DEFINITION:

THE NON-NPL POTENTIALLY RESPONSIBLE PARTY (PRP) SEARCH IS TO IDENTIFY PRPS AT NON-NPL OR REMOVAL ACTION SITES.

TYPE: RS - REMOVAL ASSESSMENT

START DATE: 08/30/1990

COMPLETION DATE: 08/30/1990

ACTION TYPE DEFINITION:

COLLECTING SITE CHARACTERISTICS TO DETERMINE WHETHER OR NOT A REMOVAL MUST BE PERFORMED.

TYPE: RS - REMOVAL ASSESSMENT

START DATE: 01/01/1991

COMPLETION DATE: 07/02/1991

ACTION TYPE DEFINITION:

COLLECTING SITE CHARACTERISTICS TO DETERMINE WHETHER OR NOT A REMOVAL MUST BE PERFORMED.

TYPE: RS - REMOVAL ASSESSMENT

START DATE: 02/18/1993

COMPLETION DATE: 09/09/1993

ACTION TYPE DEFINITION:

COLLECTING SITE CHARACTERISTICS TO DETERMINE WHETHER OR NOT A REMOVAL MUST BE PERFORMED.

TYPE: RS - REMOVAL ASSESSMENT

START DATE: 07/19/2006

COMPLETION DATE: 08/29/2006

ACTION TYPE DEFINITION:

COLLECTING SITE CHARACTERISTICS TO DETERMINE WHETHER OR NOT A REMOVAL MUST BE PERFORMED.

TYPE: RS - REMOVAL ASSESSMENT

START DATE: 04/15/2009

COMPLETION DATE: 06/15/2010

ACTION TYPE DEFINITION:

COLLECTING SITE CHARACTERISTICS TO DETERMINE WHETHER OR NOT A REMOVAL MUST BE PERFORMED.

TYPE: RV - REMOVAL - EMERGENCY

START DATE: 03/27/1987

COMPLETION DATE: 04/29/1987

ACTION TYPE DEFINITION:

RESPONSE ACTION THAT REQUIRES EXPEDITIOUS ATTENTION TO REDUCE IMMINENT AND SUBSTANTIAL DANGERS TO HUMAN HEALTH, WELFARE, OR THE ENVIRONMENT OR AN EMERGENCY RESPONSE REQUIRED WITHIN HOURS OR DAYS TO ADDRESS ACUTE SITUATIONS INVOLVING ACTUAL OR POTENTIAL THREAT TO HUMAN HEALTH, THE ENVIRONMENT, OR

National Priorities List (NPL)

REAL OR PERSONAL PROPERTY DUE TO THE RELEASE OF A HAZARDOUS SUBSTANCE. CHARACTERIZATION OF A REMOVAL ACTION AS REMOVAL, NOT IMMEDIATE REMOVAL OR PLANNED REMOVAL, STARTED AT THE BEGINNING OF FY 1987. THIS CODE NOW TAKES THE PLACE OF IMMEDIATE REMOVAL (IR) AND PLANNED REMOVAL (PR).

TYPE: TA - TECHNICAL ASSISTANCE

START DATE: 09/07/1989

COMPLETION DATE: 06/30/1994

ACTION TYPE DEFINITION:

PARTICIPATION IN THE CONDUCT OF FUND-FINANCED REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS).

TYPE: RV - REMOVAL - NON-TIME CRITICAL

START DATE: 08/12/1996

COMPLETION DATE: 11/12/1996

ACTION TYPE DEFINITION:

RESPONSE ACTION THAT REQUIRES EXPEDITIOUS ATTENTION TO REDUCE IMMINENT AND SUBSTANTIAL DANGERS TO HUMAN HEALTH, WELFARE, OR THE ENVIRONMENT OR AN EMERGENCY RESPONSE REQUIRED WITHIN HOURS OR DAYS TO ADDRESS ACUTE SITUATIONS INVOLVING ACTUAL OR POTENTIAL THREAT TO HUMAN HEALTH, THE ENVIRONMENT, OR REAL OR PERSONAL PROPERTY DUE TO THE RELEASE OF A HAZARDOUS SUBSTANCE. CHARACTERIZATION OF A REMOVAL ACTION AS REMOVAL, NOT IMMEDIATE REMOVAL OR PLANNED REMOVAL, STARTED AT THE BEGINNING OF FY 1987. THIS CODE NOW TAKES THE PLACE OF IMMEDIATE REMOVAL (IR) AND PLANNED REMOVAL (PR).

TYPE: RO - RECORD OF DECISION

START DATE: NR

COMPLETION DATE: 09/30/1991

ACTION TYPE DEFINITION:

THE FINAL RECORD OF DECISION (ROD) IS SIGNED BY THE APPROPRIATE AGENCY INDICATING THAT THE AGENCY HAS CHOSEN THE REMEDY FOR SITE REMEDIATION. ROD SIGNATURE IS SIGNIFIED BY THE COMPLETE DATE.

TYPE: RV - REMOVAL - EMERGENCY

START DATE: 07/20/2004

COMPLETION DATE: 04/04/2006

ACTION TYPE DEFINITION:

RESPONSE ACTION THAT REQUIRES EXPEDITIOUS ATTENTION TO REDUCE IMMINENT AND SUBSTANTIAL DANGERS TO HUMAN HEALTH, WELFARE, OR THE ENVIRONMENT OR AN EMERGENCY RESPONSE REQUIRED WITHIN HOURS OR DAYS TO ADDRESS ACUTE SITUATIONS INVOLVING ACTUAL OR POTENTIAL THREAT TO HUMAN HEALTH, THE ENVIRONMENT, OR REAL OR PERSONAL PROPERTY DUE TO THE RELEASE OF A HAZARDOUS SUBSTANCE. CHARACTERIZATION OF A REMOVAL ACTION AS REMOVAL, NOT IMMEDIATE REMOVAL OR PLANNED REMOVAL, STARTED AT THE BEGINNING OF FY 1987. THIS CODE NOW TAKES THE PLACE OF IMMEDIATE REMOVAL (IR) AND PLANNED REMOVAL (PR).

TYPE: RV - REMOVAL - TIME CRITICAL

START DATE: 05/05/2008

COMPLETION DATE: 09/19/2008

ACTION TYPE DEFINITION:

RESPONSE ACTION THAT REQUIRES EXPEDITIOUS ATTENTION TO REDUCE IMMINENT AND SUBSTANTIAL DANGERS TO HUMAN HEALTH, WELFARE, OR THE ENVIRONMENT OR AN EMERGENCY RESPONSE REQUIRED WITHIN HOURS OR DAYS TO ADDRESS ACUTE SITUATIONS INVOLVING ACTUAL OR POTENTIAL THREAT TO HUMAN HEALTH, THE ENVIRONMENT, OR REAL OR PERSONAL PROPERTY DUE TO THE RELEASE OF A HAZARDOUS SUBSTANCE. CHARACTERIZATION OF A REMOVAL ACTION AS REMOVAL, NOT IMMEDIATE REMOVAL OR PLANNED REMOVAL, STARTED AT THE BEGINNING OF FY 1987. THIS CODE NOW TAKES THE PLACE OF IMMEDIATE REMOVAL (IR) AND PLANNED REMOVAL (PR).

TYPE: RV - REMOVAL - TIME CRITICAL

START DATE: 06/15/2010

National Priorities List (NPL)

COMPLETION DATE: 09/15/2010

ACTION TYPE DEFINITION:

RESPONSE ACTION THAT REQUIRES EXPEDITIOUS ATTENTION TO REDUCE IMMINENT AND SUBSTANTIAL DANGERS TO HUMAN HEALTH, WELFARE, OR THE ENVIRONMENT OR AN EMERGENCY RESPONSE REQUIRED WITHIN HOURS OR DAYS TO ADDRESS ACUTE SITUATIONS INVOLVING ACTUAL OR POTENTIAL THREAT TO HUMAN HEALTH, THE ENVIRONMENT, OR REAL OR PERSONAL PROPERTY DUE TO THE RELEASE OF A HAZARDOUS SUBSTANCE. CHARACTERIZATION OF A REMOVAL ACTION AS REMOVAL, NOT IMMEDIATE REMOVAL OR PLANNED REMOVAL, STARTED AT THE BEGINNING OF FY 1987. THIS CODE NOW TAKES THE PLACE OF IMMEDIATE REMOVAL (IR) AND PLANNED REMOVAL (PR).

TYPE: RV - REMOVAL - EMERGENCY

START DATE: 10/15/2011

COMPLETION DATE: 11/15/2011

ACTION TYPE DEFINITION:

RESPONSE ACTION THAT REQUIRES EXPEDITIOUS ATTENTION TO REDUCE IMMINENT AND SUBSTANTIAL DANGERS TO HUMAN HEALTH, WELFARE, OR THE ENVIRONMENT OR AN EMERGENCY RESPONSE REQUIRED WITHIN HOURS OR DAYS TO ADDRESS ACUTE SITUATIONS INVOLVING ACTUAL OR POTENTIAL THREAT TO HUMAN HEALTH, THE ENVIRONMENT, OR REAL OR PERSONAL PROPERTY DUE TO THE RELEASE OF A HAZARDOUS SUBSTANCE. CHARACTERIZATION OF A REMOVAL ACTION AS REMOVAL, NOT IMMEDIATE REMOVAL OR PLANNED REMOVAL, STARTED AT THE BEGINNING OF FY 1987. THIS CODE NOW TAKES THE PLACE OF IMMEDIATE REMOVAL (IR) AND PLANNED REMOVAL (PR).

TYPE: RV - REMOVAL - EMERGENCY

START DATE: 10/15/2011

COMPLETION DATE: 11/15/2011

ACTION TYPE DEFINITION:

RESPONSE ACTION THAT REQUIRES EXPEDITIOUS ATTENTION TO REDUCE IMMINENT AND SUBSTANTIAL DANGERS TO HUMAN HEALTH, WELFARE, OR THE ENVIRONMENT OR AN EMERGENCY RESPONSE REQUIRED WITHIN HOURS OR DAYS TO ADDRESS ACUTE SITUATIONS INVOLVING ACTUAL OR POTENTIAL THREAT TO HUMAN HEALTH, THE ENVIRONMENT, OR REAL OR PERSONAL PROPERTY DUE TO THE RELEASE OF A HAZARDOUS SUBSTANCE. CHARACTERIZATION OF A REMOVAL ACTION AS REMOVAL, NOT IMMEDIATE REMOVAL OR PLANNED REMOVAL, STARTED AT THE BEGINNING OF FY 1987. THIS CODE NOW TAKES THE PLACE OF IMMEDIATE REMOVAL (IR) AND PLANNED REMOVAL (PR).

TYPE: SF - SECTION 104(E) REF LITIGATION

START DATE: 07/18/2008

COMPLETION DATE: 09/28/2012

ACTION TYPE DEFINITION:

ALL SECTION 104(E) REFERRALS WITHOUT SETTLEMENT REFERRED TO DOJ/OECM. THE REFERRAL CAN BE FOR INFORMATION, SITE ACCESS, OR ENFORCEMENT OF A S104(E) ORDER.

TYPE: SI - SITE INSPECTION

START DATE: NR

COMPLETION DATE: 06/01/1982

ACTION TYPE DEFINITION:

THE PROCESS OF COLLECTING SITE DATA AND SAMPLES TO CHARACTERIZE THE SEVERITY OF THE HAZARD FOR THE HAZARD RANKING SCORE AND/OR ENFORCEMENT SUPPORT.

TYPE: SV - SECTION 107 LITIGATION

START DATE: 09/28/2004

COMPLETION DATE: 05/21/2007

ACTION TYPE DEFINITION:

JUDICIAL REFERRAL UNDER S107 TO RECOVERY FROM POTENTIALLY RESPONSIBLE PARTIES (PRPS).

TYPE: SV - SECTION 107 LITIGATION

National Priorities List (NPL)

START DATE: 11/29/2010

COMPLETION DATE: 12/21/2010

ACTION TYPE DEFINITION:

JUDICIAL REFERRAL UNDER S107 TO RECOVERY FROM POTENTIALLY RESPONSIBLE PARTIES (PRPS).

TYPE: RV - REMOVAL - TIME CRITICAL

START DATE: 09/30/1987

COMPLETION DATE: 12/09/1988

ACTION TYPE DEFINITION:

RESPONSE ACTION THAT REQUIRES EXPEDITIOUS ATTENTION TO REDUCE IMMINENT AND SUBSTANTIAL DANGERS TO HUMAN HEALTH, WELFARE, OR THE ENVIRONMENT OR AN EMERGENCY RESPONSE REQUIRED WITHIN HOURS OR DAYS TO ADDRESS ACUTE SITUATIONS INVOLVING ACTUAL OR POTENTIAL THREAT TO HUMAN HEALTH, THE ENVIRONMENT, OR REAL OR PERSONAL PROPERTY DUE TO THE RELEASE OF A HAZARDOUS SUBSTANCE. CHARACTERIZATION OF A REMOVAL ACTION AS REMOVAL, NOT IMMEDIATE REMOVAL OR PLANNED REMOVAL, STARTED AT THE BEGINNING OF FY 1987. THIS CODE NOW TAKES THE PLACE OF IMMEDIATE REMOVAL (IR) AND PLANNED REMOVAL (PR).

TYPE: CD - CONSENT DECREE

START DATE: 03/13/2007

COMPLETION DATE: 05/21/2007

ACTION TYPE DEFINITION:

JUDICIAL AGREEMENT BETWEEN THE FEDERAL GOVERNMENT AND THE POTENTIALLY RESPONSIBLE PARTIES (PRPS) FULLY OR PARTIALLY SETTLING A CLAIM UNDER CERCLA. THIS AGREEMENT MAY SETTLE LITIGATION OR MAY BE PRESENTED CONCURRENTLY WITH THE COMPLAINT (ACHIEVED THROUGH NEGOTIATIONS). THE AGREEMENT MAY BE FOR RESPONSE WORK, COST RECOVERY, OR BOTH.

TYPE: BF - POTENTIALLY RESPONSIBLE PARTY REMEDIAL ACTION

START DATE: 07/25/1994

COMPLETION DATE: 02/23/1995

ACTION TYPE DEFINITION:

PROVIDES FOR OVERSIGHT OF POTENTIALLY RESPONSIBLE PARTY (PRP) RESPONSE ACTION FOR REMEDIAL ACTION (RA), INCLUDING ALL ACTIVITIES FOR MONITORING AND SUPERVISING THE PERFORMANCE OF THE RESPONSIBLE PARTIES TO DETERMINE WHETHER SUCH PERFORMANCE IS CONSISTENT WITH THE REQUIREMENTS OF THE ADMINISTRATIVE ORDERS ON CONSENT, UNILATERAL ADMINISTRATIVE ORDERS, CONSENT DECREES, JUDICIAL DECREES, INFORMATION AGREEMENTS, AND COMPLIANCE SCHEDULES.

TYPE: BF - POTENTIALLY RESPONSIBLE PARTY REMEDIAL ACTION

START DATE: 05/21/1998

COMPLETION DATE: 09/24/1998

ACTION TYPE DEFINITION:

PROVIDES FOR OVERSIGHT OF POTENTIALLY RESPONSIBLE PARTY (PRP) RESPONSE ACTION FOR REMEDIAL ACTION (RA), INCLUDING ALL ACTIVITIES FOR MONITORING AND SUPERVISING THE PERFORMANCE OF THE RESPONSIBLE PARTIES TO DETERMINE WHETHER SUCH PERFORMANCE IS CONSISTENT WITH THE REQUIREMENTS OF THE ADMINISTRATIVE ORDERS ON CONSENT, UNILATERAL ADMINISTRATIVE ORDERS, CONSENT DECREES, JUDICIAL DECREES, INFORMATION AGREEMENTS, AND COMPLIANCE SCHEDULES.

TYPE: BF - POTENTIALLY RESPONSIBLE PARTY REMEDIAL ACTION - LONG TERM ACTION

START DATE: 11/17/1997

COMPLETION DATE: 09/28/1999

ACTION TYPE DEFINITION:

PROVIDES FOR OVERSIGHT OF POTENTIALLY RESPONSIBLE PARTY (PRP) RESPONSE ACTION FOR REMEDIAL ACTION (RA), INCLUDING ALL ACTIVITIES FOR MONITORING AND SUPERVISING THE PERFORMANCE OF THE RESPONSIBLE

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PARTIES TO DETERMINE WHETHER SUCH PERFORMANCE IS CONSISTENT WITH THE REQUIREMENTS OF THE ADMINISTRATIVE ORDERS ON CONSENT, UNILATERAL ADMINISTRATIVE ORDERS, CONSENT DECREES, JUDICIAL DECREES, INFORMATION AGREEMENTS, AND COMPLIANCE SCHEDULES.

TYPE: **BF - POTENTIALLY RESPONSIBLE PARTY REMEDIAL ACTION**

START DATE: **09/17/1998**

COMPLETION DATE: **01/27/2000**

ACTION TYPE DEFINITION:

PROVIDES FOR OVERSIGHT OF POTENTIALLY RESPONSIBLE PARTY (PRP) RESPONSE ACTION FOR REMEDIAL ACTION (RA), INCLUDING ALL ACTIVITIES FOR MONITORING AND SUPERVISING THE PERFORMANCE OF THE RESPONSIBLE PARTIES TO DETERMINE WHETHER SUCH PERFORMANCE IS CONSISTENT WITH THE REQUIREMENTS OF THE ADMINISTRATIVE ORDERS ON CONSENT, UNILATERAL ADMINISTRATIVE ORDERS, CONSENT DECREES, JUDICIAL DECREES, INFORMATION AGREEMENTS, AND COMPLIANCE SCHEDULES.

TYPE: **BF - POTENTIALLY RESPONSIBLE PARTY REMEDIAL ACTION - LONG TERM ACTION**

START DATE: **01/28/1999**

COMPLETION DATE: **08/25/2000**

ACTION TYPE DEFINITION:

PROVIDES FOR OVERSIGHT OF POTENTIALLY RESPONSIBLE PARTY (PRP) RESPONSE ACTION FOR REMEDIAL ACTION (RA), INCLUDING ALL ACTIVITIES FOR MONITORING AND SUPERVISING THE PERFORMANCE OF THE RESPONSIBLE PARTIES TO DETERMINE WHETHER SUCH PERFORMANCE IS CONSISTENT WITH THE REQUIREMENTS OF THE ADMINISTRATIVE ORDERS ON CONSENT, UNILATERAL ADMINISTRATIVE ORDERS, CONSENT DECREES, JUDICIAL DECREES, INFORMATION AGREEMENTS, AND COMPLIANCE SCHEDULES.

TYPE: **BF - POTENTIALLY RESPONSIBLE PARTY REMEDIAL ACTION - LONG TERM ACTION**

START DATE: **05/22/1998**

COMPLETION DATE: **03/29/1999**

ACTION TYPE DEFINITION:

PROVIDES FOR OVERSIGHT OF POTENTIALLY RESPONSIBLE PARTY (PRP) RESPONSE ACTION FOR REMEDIAL ACTION (RA), INCLUDING ALL ACTIVITIES FOR MONITORING AND SUPERVISING THE PERFORMANCE OF THE RESPONSIBLE PARTIES TO DETERMINE WHETHER SUCH PERFORMANCE IS CONSISTENT WITH THE REQUIREMENTS OF THE ADMINISTRATIVE ORDERS ON CONSENT, UNILATERAL ADMINISTRATIVE ORDERS, CONSENT DECREES, JUDICIAL DECREES, INFORMATION AGREEMENTS, AND COMPLIANCE SCHEDULES.

TYPE: **CA - CONSENT AGREEMENT (ADMINISTRATIVE)**

START DATE: **NR**

COMPLETION DATE: **09/14/1998**

ACTION TYPE DEFINITION:

INFORMAL AGREEMENT USED TO INITIATE POTENTIALLY RESPONSIBLE PARTY (PRP) RESPONSE OR COST RECOVERY.

TYPE: **CA - CONSENT AGREEMENT (ADMINISTRATIVE)**

START DATE: **NR**

COMPLETION DATE: **03/10/2000**

ACTION TYPE DEFINITION:

INFORMAL AGREEMENT USED TO INITIATE POTENTIALLY RESPONSIBLE PARTY (PRP) RESPONSE OR COST RECOVERY.

TYPE: **CB - CLAIM IN BANKRUPTCY PROCEEDING**

START DATE: **11/29/2010**

COMPLETION DATE: **12/21/2010**

ACTION TYPE DEFINITION:

LEGAL ACTION PERFORMED BY EPA REGIONAL ATTORNEYS TO ESTABLISH EPA AS A CREDITOR WHEN POTENTIALLY RESPONSIBLE PARTY (PRP) HAS FILED FOR BANKRUPTCY.

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TYPE: **FE - FIVE-YEAR REVIEW**

START DATE: **08/09/1993**

COMPLETION DATE: **03/30/1994**

ACTION TYPE DEFINITION:

A REVIEW THAT IS CONDUCTED AT A MINIMUM OF EVERY FIVE YEARS TO DETERMINE IF THE IMPLEMENTATION AND PERFORMANCE OF A REMEDY IS PROTECTIVE OR WILL BE PROTECTIVE OF HUMAN HEALTH AND THE ENVIRONMENT.

TYPE: **QX - PROSPECTIVE PURCHASER AGREEMENT ASSESSMENT**

START DATE: **06/17/1999**

COMPLETION DATE: **01/14/2000**

ACTION TYPE DEFINITION:

EPA REVIEWS A FORMAL REQUEST FOR A PROSPECTIVE PURCHASER AGREEMENT (PPA), RESULTING IN A DECISION TO GRANT OR DENY THE REQUEST.

TYPE: **BB - POTENTIALLY RESPONSIBLE PARTY REMOVAL - TIME CRITICAL**

START DATE: **06/08/1995**

COMPLETION DATE: **06/09/1995**

ACTION TYPE DEFINITION:

PROVIDES FOR OVERSIGHT OF POTENTIALLY RESPONSIBLE PARTY (PRP) RESPONSE ACTION FOR REMOVALS, INCLUDING ALL ACTIVITIES FOR MONITORING AND SUPERVISING THE PERFORMANCE OF PRPS TO DETERMINE WHETHER SUCH PERFORMANCE IS CONSISTENT WITH THE REQUIREMENTS OF THE ADMINISTRATIVE ORDERS ON CONSENT, UNILATERAL ADMINISTRATIVE ORDERS, CONSENT DECREES, JUDICIAL DECREES, INFORMATION AGREEMENTS, AND COMPLIANCE SCHEDULES.

TYPE: **CL - SECTION 106 107 LITIGATION**

START DATE: **05/26/1999**

COMPLETION DATE: **03/10/2000**

ACTION TYPE DEFINITION:

REFERRAL TO OECM OR DOJ, WITHOUT SETTLEMENT, OF A CIVIL ACTION ADDRESSING A SITE UNDER SECTIONS 106 AND 107 OF CERCLA.

TYPE: **CL - SECTION 106 107 LITIGATION**

START DATE: **05/26/1999**

COMPLETION DATE: **01/14/2000**

ACTION TYPE DEFINITION:

REFERRAL TO OECM OR DOJ, WITHOUT SETTLEMENT, OF A CIVIL ACTION ADDRESSING A SITE UNDER SECTIONS 106 AND 107 OF CERCLA.

TYPE: **CO - COMBINED REMEDIAL INVESTIGATION/FEASIBILITY STUDY**

START DATE: **12/29/1999**

COMPLETION DATE: **09/29/2004**

ACTION TYPE DEFINITION:

THE PROCESS OF DATA COLLECTION AND ANALYSES OF THE SITE PROBLEM, IDENTIFICATION OF PRELIMINARY REMEDIAL ALTERNATIVES, AND RECOMMENDATION OF A COST-EFFECTIVE REMEDY. THERE CAN BE MULTIPLE REMEDIAL INVESTIGATION/FEASIBILITY STUDIES (RI/FS) CONDUCTED AT A SITE.

TYPE: **CR - COMMUNITY INVOLVEMENT**

START DATE: **12/31/1985**

COMPLETION DATE: **06/30/1986**

ACTION TYPE DEFINITION:

THE COMMUNITY RELATIONS ACTIVITIES, I.E., PLAN, IMPLEMENTATION AND RESPONSIVENESS SUMMARY THAT MUST BE COMPLETED AT A SITE TO ADDRESS COMMUNITY CONCERNS.

National Priorities List (NPL)

TYPE: **CR - COMMUNITY INVOLVEMENT**

START DATE: **12/01/1988**

COMPLETION DATE: **05/30/1989**

ACTION TYPE DEFINITION:

THE COMMUNITY RELATIONS ACTIVITIES, I.E., PLAN, IMPLEMENTATION AND RESPONSIVENESS SUMMARY THAT MUST BE COMPLETED AT A SITE TO ADDRESS COMMUNITY CONCERNS.

TYPE: **DP - PUBLIC NOTICE PUBLISHED**

START DATE: **NR**

COMPLETION DATE: **09/27/1991**

ACTION TYPE DEFINITION:

PUBLICATION IN THE LOCAL NEWSPAPER OF THE AVAILABILITY OF DOCUMENTS FOR PUBLIC REVIEW, SUCH AS THE ADMINISTRATIVE RECORD, PROPOSED PLAN, AND DELETION PACKAGE.

TYPE: **DS - DISCOVERY**

START DATE: **NR**

COMPLETION DATE: **03/01/1982**

ACTION TYPE DEFINITION:

THE PROCESS BY WHICH A POTENTIAL HAZARDOUS WASTE SITE IS BROUGHT TO THE ATTENTION OF THE EPA. THE PROCESS CAN OCCUR THROUGH THE USE OF SEVERAL MECHANISMS SUCH AS A PHONE CALL OR REFERRAL BY ANOTHER GOVERNMENT AGENCY.

TYPE: **EH - EXPLANATION OF SIGNIFICANT DIFFERENCES**

START DATE: **NR**

COMPLETION DATE: **09/01/1999**

ACTION TYPE DEFINITION:

MINOR CHANGE FROM THE ORIGINAL REMEDY SELECTED IN THE ORIGINAL RECORD OF DECISION (ROD), SUCH AS CONTINGENT REMEDY.

TYPE: **EH - EXPLANATION OF SIGNIFICANT DIFFERENCES**

START DATE: **NR**

COMPLETION DATE: **06/06/2005**

ACTION TYPE DEFINITION:

MINOR CHANGE FROM THE ORIGINAL REMEDY SELECTED IN THE ORIGINAL RECORD OF DECISION (ROD), SUCH AS CONTINGENT REMEDY.

TYPE: **CD - CONSENT DECREE**

START DATE: **09/10/1996**

COMPLETION DATE: **06/03/1997**

ACTION TYPE DEFINITION:

JUDICIAL AGREEMENT BETWEEN THE FEDERAL GOVERNMENT AND THE POTENTIALLY RESPONSIBLE PARTIES (PRPS) FULLY OR PARTIALLY SETTLING A CLAIM UNDER CERCLA. THIS AGREEMENT MAY SETTLE LITIGATION OR MAY BE PRESENTED CONCURRENTLY WITH THE COMPLAINT (ACHIEVED THROUGH NEGOTIATIONS). THE AGREEMENT MAY BE FOR RESPONSE WORK, COST RECOVERY, OR BOTH.

TYPE: **AN - REMEDIAL DESIGN/REMEDIAL ACTION NEGOTIATIONS**

START DATE: **06/25/1997**

COMPLETION DATE: **09/19/1997**

ACTION TYPE DEFINITION:

DISCUSSIONS AND INFORMATION EXCHANGE BETWEEN POTENTIALLY RESPONSIBLE PARTIES (PRPS) AND EPA (OR STATE) OVER THE LIABILITY OF THE PRP, WILLINGNESS, AND ABILITY TO CONDUCT THE REMEDIAL DESIGN AND/OR THE REMEDIAL ACTION AS IDENTIFIED IN THE RECORD OF DECISION (ROD).

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TYPE: RV - REMOVAL - TIME CRITICAL

START DATE: 09/21/1998

COMPLETION DATE: 12/14/1998

ACTION TYPE DEFINITION:

RESPONSE ACTION THAT REQUIRES EXPEDITIOUS ATTENTION TO REDUCE IMMINENT AND SUBSTANTIAL DANGERS TO HUMAN HEALTH, WELFARE, OR THE ENVIRONMENT OR AN EMERGENCY RESPONSE REQUIRED WITHIN HOURS OR DAYS TO ADDRESS ACUTE SITUATIONS INVOLVING ACTUAL OR POTENTIAL THREAT TO HUMAN HEALTH, THE ENVIRONMENT, OR REAL OR PERSONAL PROPERTY DUE TO THE RELEASE OF A HAZARDOUS SUBSTANCE. CHARACTERIZATION OF A REMOVAL ACTION AS REMOVAL, NOT IMMEDIATE REMOVAL OR PLANNED REMOVAL, STARTED AT THE BEGINNING OF FY 1987. THIS CODE NOW TAKES THE PLACE OF IMMEDIATE REMOVAL (IR) AND PLANNED REMOVAL (PR).

TYPE: AC - ADMINISTRATIVE ORDER ON CONSENT

START DATE: NR

COMPLETION DATE: 02/12/1993

ACTION TYPE DEFINITION:

A VOLUNTARY AND ENFORCEABLE AGREEMENT PURSUANT TO CERCLA, SIGNED BY EPA AND POTENTIALLY RESPONSIBLE PARTIES (PRPS), WHEREBY THE PRPS AGREE TO PERFORM AND/OR PAY FOR SOME OR ALL OF THE RESPONSE COSTS INVOLVED IN SITE CLEANUP. THE ORDER DESCRIBES THE PRP RESPONSE TO BE TAKEN AT A SITE, STIPULATED PENALTIES, INDEMNIFICATION, EFFECTIVE DATE, AND MAY BE SUBJECT TO PUBLIC COMMENT. IT CAN BE FOR REMOVAL, REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS), REMEDIAL DESIGN (RD), AND REMEDIAL ACTION (RA),PRE-SARA; BUT ONLY REMOVAL AND RI/FS, POST-SARA.

TYPE: AC - ADMINISTRATIVE ORDER ON CONSENT

START DATE: NR

COMPLETION DATE: 02/25/1993

ACTION TYPE DEFINITION:

A VOLUNTARY AND ENFORCEABLE AGREEMENT PURSUANT TO CERCLA, SIGNED BY EPA AND POTENTIALLY RESPONSIBLE PARTIES (PRPS), WHEREBY THE PRPS AGREE TO PERFORM AND/OR PAY FOR SOME OR ALL OF THE RESPONSE COSTS INVOLVED IN SITE CLEANUP. THE ORDER DESCRIBES THE PRP RESPONSE TO BE TAKEN AT A SITE, STIPULATED PENALTIES, INDEMNIFICATION, EFFECTIVE DATE, AND MAY BE SUBJECT TO PUBLIC COMMENT. IT CAN BE FOR REMOVAL, REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS), REMEDIAL DESIGN (RD), AND REMEDIAL ACTION (RA),PRE-SARA; BUT ONLY REMOVAL AND RI/FS, POST-SARA.

TYPE: AC - ADMINISTRATIVE ORDER ON CONSENT

START DATE: NR

COMPLETION DATE: 04/18/1993

ACTION TYPE DEFINITION:

A VOLUNTARY AND ENFORCEABLE AGREEMENT PURSUANT TO CERCLA, SIGNED BY EPA AND POTENTIALLY RESPONSIBLE PARTIES (PRPS), WHEREBY THE PRPS AGREE TO PERFORM AND/OR PAY FOR SOME OR ALL OF THE RESPONSE COSTS INVOLVED IN SITE CLEANUP. THE ORDER DESCRIBES THE PRP RESPONSE TO BE TAKEN AT A SITE, STIPULATED PENALTIES, INDEMNIFICATION, EFFECTIVE DATE, AND MAY BE SUBJECT TO PUBLIC COMMENT. IT CAN BE FOR REMOVAL, REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS), REMEDIAL DESIGN (RD), AND REMEDIAL ACTION (RA),PRE-SARA; BUT ONLY REMOVAL AND RI/FS, POST-SARA.

TYPE: AC - ADMINISTRATIVE ORDER ON CONSENT

START DATE: NR

COMPLETION DATE: 06/02/1993

ACTION TYPE DEFINITION:

A VOLUNTARY AND ENFORCEABLE AGREEMENT PURSUANT TO CERCLA, SIGNED BY EPA AND POTENTIALLY RESPONSIBLE PARTIES (PRPS), WHEREBY THE PRPS AGREE TO PERFORM AND/OR PAY FOR SOME OR ALL OF THE RESPONSE COSTS INVOLVED IN SITE CLEANUP. THE ORDER DESCRIBES THE PRP RESPONSE TO BE TAKEN AT A SITE,

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STIPULATED PENALTIES, INDEMNIFICATION, EFFECTIVE DATE, AND MAY BE SUBJECT TO PUBLIC COMMENT. IT CAN BE FOR REMOVAL, REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS), REMEDIAL DESIGN (RD), AND REMEDIAL ACTION (RA),PRE-SARA; BUT ONLY REMOVAL AND RI/FS, POST-SARA.

TYPE: AC - ADMINISTRATIVE ORDER ON CONSENT

START DATE: NR

COMPLETION DATE: 11/19/1993

ACTION TYPE DEFINITION:

A VOLUNTARY AND ENFORCEABLE AGREEMENT PURSUANT TO CERCLA, SIGNED BY EPA AND POTENTIALLY RESPONSIBLE PARTIES (PRPS), WHEREBY THE PRPS AGREE TO PERFORM AND/OR PAY FOR SOME OR ALL OF THE RESPONSE COSTS INVOLVED IN SITE CLEANUP. THE ORDER DESCRIBES THE PRP RESPONSE TO BE TAKEN AT A SITE, STIPULATED PENALTIES, INDEMNIFICATION, EFFECTIVE DATE, AND MAY BE SUBJECT TO PUBLIC COMMENT. IT CAN BE FOR REMOVAL, REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS), REMEDIAL DESIGN (RD), AND REMEDIAL ACTION (RA),PRE-SARA; BUT ONLY REMOVAL AND RI/FS, POST-SARA.

TYPE: AC - ADMINISTRATIVE ORDER ON CONSENT

START DATE: NR

COMPLETION DATE: 06/08/1995

ACTION TYPE DEFINITION:

A VOLUNTARY AND ENFORCEABLE AGREEMENT PURSUANT TO CERCLA, SIGNED BY EPA AND POTENTIALLY RESPONSIBLE PARTIES (PRPS), WHEREBY THE PRPS AGREE TO PERFORM AND/OR PAY FOR SOME OR ALL OF THE RESPONSE COSTS INVOLVED IN SITE CLEANUP. THE ORDER DESCRIBES THE PRP RESPONSE TO BE TAKEN AT A SITE, STIPULATED PENALTIES, INDEMNIFICATION, EFFECTIVE DATE, AND MAY BE SUBJECT TO PUBLIC COMMENT. IT CAN BE FOR REMOVAL, REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS), REMEDIAL DESIGN (RD), AND REMEDIAL ACTION (RA),PRE-SARA; BUT ONLY REMOVAL AND RI/FS, POST-SARA.

TYPE: AC - ADMINISTRATIVE ORDER ON CONSENT

START DATE: NR

COMPLETION DATE: 09/13/1995

ACTION TYPE DEFINITION:

A VOLUNTARY AND ENFORCEABLE AGREEMENT PURSUANT TO CERCLA, SIGNED BY EPA AND POTENTIALLY RESPONSIBLE PARTIES (PRPS), WHEREBY THE PRPS AGREE TO PERFORM AND/OR PAY FOR SOME OR ALL OF THE RESPONSE COSTS INVOLVED IN SITE CLEANUP. THE ORDER DESCRIBES THE PRP RESPONSE TO BE TAKEN AT A SITE, STIPULATED PENALTIES, INDEMNIFICATION, EFFECTIVE DATE, AND MAY BE SUBJECT TO PUBLIC COMMENT. IT CAN BE FOR REMOVAL, REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS), REMEDIAL DESIGN (RD), AND REMEDIAL ACTION (RA),PRE-SARA; BUT ONLY REMOVAL AND RI/FS, POST-SARA.

TYPE: AC - ADMINISTRATIVE ORDER ON CONSENT

START DATE: NR

COMPLETION DATE: 08/21/1996

ACTION TYPE DEFINITION:

A VOLUNTARY AND ENFORCEABLE AGREEMENT PURSUANT TO CERCLA, SIGNED BY EPA AND POTENTIALLY RESPONSIBLE PARTIES (PRPS), WHEREBY THE PRPS AGREE TO PERFORM AND/OR PAY FOR SOME OR ALL OF THE RESPONSE COSTS INVOLVED IN SITE CLEANUP. THE ORDER DESCRIBES THE PRP RESPONSE TO BE TAKEN AT A SITE, STIPULATED PENALTIES, INDEMNIFICATION, EFFECTIVE DATE, AND MAY BE SUBJECT TO PUBLIC COMMENT. IT CAN BE FOR REMOVAL, REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS), REMEDIAL DESIGN (RD), AND REMEDIAL ACTION (RA),PRE-SARA; BUT ONLY REMOVAL AND RI/FS, POST-SARA.

TYPE: BB - POTENTIALLY RESPONSIBLE PARTY REMOVAL - TIME CRITICAL

START DATE: 07/22/2004

COMPLETION DATE: 01/05/2006

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ACTION TYPE DEFINITION:

PROVIDES FOR OVERSIGHT OF POTENTIALLY RESPONSIBLE PARTY (PRP) RESPONSE ACTION FOR REMOVALS, INCLUDING ALL ACTIVITIES FOR MONITORING AND SUPERVISING THE PERFORMANCE OF PRPS TO DETERMINE WHETHER SUCH PERFORMANCE IS CONSISTENT WITH THE REQUIREMENTS OF THE ADMINISTRATIVE ORDERS ON CONSENT, UNILATERAL ADMINISTRATIVE ORDERS, CONSENT DECREES, JUDICIAL DECREES, INFORMATION AGREEMENTS, AND COMPLIANCE SCHEDULES.

TYPE: AC - ADMINISTRATIVE ORDER ON CONSENT

START DATE: NR

COMPLETION DATE: 04/26/2007

ACTION TYPE DEFINITION:

A VOLUNTARY AND ENFORCEABLE AGREEMENT PURSUANT TO CERCLA, SIGNED BY EPA AND POTENTIALLY RESPONSIBLE PARTIES (PRPS), WHEREBY THE PRPS AGREE TO PERFORM AND/OR PAY FOR SOME OR ALL OF THE RESPONSE COSTS INVOLVED IN SITE CLEANUP. THE ORDER DESCRIBES THE PRP RESPONSE TO BE TAKEN AT A SITE, STIPULATED PENALTIES, INDEMNIFICATION, EFFECTIVE DATE, AND MAY BE SUBJECT TO PUBLIC COMMENT. IT CAN BE FOR REMOVAL, REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS), REMEDIAL DESIGN (RD), AND REMEDIAL ACTION (RA),PRE-SARA; BUT ONLY REMOVAL AND RI/FS, POST-SARA.

TYPE: BB - POTENTIALLY RESPONSIBLE PARTY REMOVAL - TIME CRITICAL

START DATE: 09/21/1996

COMPLETION DATE: 11/10/1996

ACTION TYPE DEFINITION:

PROVIDES FOR OVERSIGHT OF POTENTIALLY RESPONSIBLE PARTY (PRP) RESPONSE ACTION FOR REMOVALS, INCLUDING ALL ACTIVITIES FOR MONITORING AND SUPERVISING THE PERFORMANCE OF PRPS TO DETERMINE WHETHER SUCH PERFORMANCE IS CONSISTENT WITH THE REQUIREMENTS OF THE ADMINISTRATIVE ORDERS ON CONSENT, UNILATERAL ADMINISTRATIVE ORDERS, CONSENT DECREES, JUDICIAL DECREES, INFORMATION AGREEMENTS, AND COMPLIANCE SCHEDULES.

TYPE: AR - ADMINISTRATIVE RECORDS

START DATE: 09/30/1987

COMPLETION DATE: 05/08/1988

ACTION TYPE DEFINITION:

SARA SPECIFIES THAT ADMINISTRATIVE RECORDS BE COMPILED AT SUPERFUND SITES WHERE REMEDIAL OR REMOVAL RESPONSES ARE PLANNED, OR ARE OCCURRING, OR WHERE EPA IS ISSUING A UNILATERAL ORDER OR INITIATING LITIGATION TO TRACK ENFORCEMENT CASE BUDGET FUNDS USED FOR ANY RP LEAD ACTIVITY.

TYPE: AR - ADMINISTRATIVE RECORDS

START DATE: 10/01/1987

COMPLETION DATE: 10/01/1987

ACTION TYPE DEFINITION:

SARA SPECIFIES THAT ADMINISTRATIVE RECORDS BE COMPILED AT SUPERFUND SITES WHERE REMEDIAL OR REMOVAL RESPONSES ARE PLANNED, OR ARE OCCURRING, OR WHERE EPA IS ISSUING A UNILATERAL ORDER OR INITIATING LITIGATION TO TRACK ENFORCEMENT CASE BUDGET FUNDS USED FOR ANY RP LEAD ACTIVITY.

TYPE: AR - ADMINISTRATIVE RECORDS

START DATE: 09/01/1988

COMPLETION DATE: 09/30/1991

ACTION TYPE DEFINITION:

SARA SPECIFIES THAT ADMINISTRATIVE RECORDS BE COMPILED AT SUPERFUND SITES WHERE REMEDIAL OR REMOVAL RESPONSES ARE PLANNED, OR ARE OCCURRING, OR WHERE EPA IS ISSUING A UNILATERAL ORDER OR INITIATING LITIGATION TO TRACK ENFORCEMENT CASE BUDGET FUNDS USED FOR ANY RP LEAD ACTIVITY.

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TYPE: **AR - ADMINISTRATIVE RECORDS**

START DATE: **09/17/1991**

COMPLETION DATE: **09/17/1991**

ACTION TYPE DEFINITION:

SARA SPECIFIES THAT ADMINISTRATIVE RECORDS BE COMPILED AT SUPERFUND SITES WHERE REMEDIAL OR REMOVAL RESPONSES ARE PLANNED, OR ARE OCCURRING, OR WHERE EPA IS ISSUING A UNILATERAL ORDER OR INITIATING LITIGATION TO TRACK ENFORCEMENT CASE BUDGET FUNDS USED FOR ANY RP LEAD ACTIVITY.

TYPE: **BB - POTENTIALLY RESPONSIBLE PARTY REMOVAL - TIME CRITICAL**

START DATE: **06/15/1993**

COMPLETION DATE: **06/16/1993**

ACTION TYPE DEFINITION:

PROVIDES FOR OVERSIGHT OF POTENTIALLY RESPONSIBLE PARTY (PRP) RESPONSE ACTION FOR REMOVALS, INCLUDING ALL ACTIVITIES FOR MONITORING AND SUPERVISING THE PERFORMANCE OF PRPS TO DETERMINE WHETHER SUCH PERFORMANCE IS CONSISTENT WITH THE REQUIREMENTS OF THE ADMINISTRATIVE ORDERS ON CONSENT, UNILATERAL ADMINISTRATIVE ORDERS, CONSENT DECREES, JUDICIAL DECREES, INFORMATION AGREEMENTS, AND COMPLIANCE SCHEDULES.

TYPE: **BB - POTENTIALLY RESPONSIBLE PARTY REMOVAL - TIME CRITICAL**

START DATE: **12/08/1993**

COMPLETION DATE: **06/09/1994**

ACTION TYPE DEFINITION:

PROVIDES FOR OVERSIGHT OF POTENTIALLY RESPONSIBLE PARTY (PRP) RESPONSE ACTION FOR REMOVALS, INCLUDING ALL ACTIVITIES FOR MONITORING AND SUPERVISING THE PERFORMANCE OF PRPS TO DETERMINE WHETHER SUCH PERFORMANCE IS CONSISTENT WITH THE REQUIREMENTS OF THE ADMINISTRATIVE ORDERS ON CONSENT, UNILATERAL ADMINISTRATIVE ORDERS, CONSENT DECREES, JUDICIAL DECREES, INFORMATION AGREEMENTS, AND COMPLIANCE SCHEDULES.

TYPE: **BB - POTENTIALLY RESPONSIBLE PARTY REMOVAL - TIME CRITICAL**

START DATE: **12/15/1993**

COMPLETION DATE: **04/29/1994**

ACTION TYPE DEFINITION:

PROVIDES FOR OVERSIGHT OF POTENTIALLY RESPONSIBLE PARTY (PRP) RESPONSE ACTION FOR REMOVALS, INCLUDING ALL ACTIVITIES FOR MONITORING AND SUPERVISING THE PERFORMANCE OF PRPS TO DETERMINE WHETHER SUCH PERFORMANCE IS CONSISTENT WITH THE REQUIREMENTS OF THE ADMINISTRATIVE ORDERS ON CONSENT, UNILATERAL ADMINISTRATIVE ORDERS, CONSENT DECREES, JUDICIAL DECREES, INFORMATION AGREEMENTS, AND COMPLIANCE SCHEDULES.

TYPE: **BB - POTENTIALLY RESPONSIBLE PARTY REMOVAL - TIME CRITICAL**

START DATE: **01/04/1994**

COMPLETION DATE: **04/29/1994**

ACTION TYPE DEFINITION:

PROVIDES FOR OVERSIGHT OF POTENTIALLY RESPONSIBLE PARTY (PRP) RESPONSE ACTION FOR REMOVALS, INCLUDING ALL ACTIVITIES FOR MONITORING AND SUPERVISING THE PERFORMANCE OF PRPS TO DETERMINE WHETHER SUCH PERFORMANCE IS CONSISTENT WITH THE REQUIREMENTS OF THE ADMINISTRATIVE ORDERS ON CONSENT, UNILATERAL ADMINISTRATIVE ORDERS, CONSENT DECREES, JUDICIAL DECREES, INFORMATION AGREEMENTS, AND COMPLIANCE SCHEDULES.

TYPE: **BB - POTENTIALLY RESPONSIBLE PARTY REMOVAL - TIME CRITICAL**

START DATE: **10/30/1995**

COMPLETION DATE: **04/19/1996**

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ACTION TYPE DEFINITION:

PROVIDES FOR OVERSIGHT OF POTENTIALLY RESPONSIBLE PARTY (PRP) RESPONSE ACTION FOR REMOVALS, INCLUDING ALL ACTIVITIES FOR MONITORING AND SUPERVISING THE PERFORMANCE OF PRPS TO DETERMINE WHETHER SUCH PERFORMANCE IS CONSISTENT WITH THE REQUIREMENTS OF THE ADMINISTRATIVE ORDERS ON CONSENT, UNILATERAL ADMINISTRATIVE ORDERS, CONSENT DECREES, JUDICIAL DECREES, INFORMATION AGREEMENTS, AND COMPLIANCE SCHEDULES.

TYPE: **BB - POTENTIALLY RESPONSIBLE PARTY REMOVAL - TIME CRITICAL**

START DATE: **08/23/1993**

COMPLETION DATE: **09/23/1994**

ACTION TYPE DEFINITION:

PROVIDES FOR OVERSIGHT OF POTENTIALLY RESPONSIBLE PARTY (PRP) RESPONSE ACTION FOR REMOVALS, INCLUDING ALL ACTIVITIES FOR MONITORING AND SUPERVISING THE PERFORMANCE OF PRPS TO DETERMINE WHETHER SUCH PERFORMANCE IS CONSISTENT WITH THE REQUIREMENTS OF THE ADMINISTRATIVE ORDERS ON CONSENT, UNILATERAL ADMINISTRATIVE ORDERS, CONSENT DECREES, JUDICIAL DECREES, INFORMATION AGREEMENTS, AND COMPLIANCE SCHEDULES.

TYPE: **AC - ADMINISTRATIVE ORDER ON CONSENT**

START DATE: **NR**

COMPLETION DATE: **04/26/2007**

ACTION TYPE DEFINITION:

A VOLUNTARY AND ENFORCEABLE AGREEMENT PURSUANT TO CERCLA, SIGNED BY EPA AND POTENTIALLY RESPONSIBLE PARTIES (PRPS), WHEREBY THE PRPS AGREE TO PERFORM AND/OR PAY FOR SOME OR ALL OF THE RESPONSE COSTS INVOLVED IN SITE CLEANUP. THE ORDER DESCRIBES THE PRP RESPONSE TO BE TAKEN AT A SITE, STIPULATED PENALTIES, INDEMNIFICATION, EFFECTIVE DATE, AND MAY BE SUBJECT TO PUBLIC COMMENT. IT CAN BE FOR REMOVAL, REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS), REMEDIAL DESIGN (RD), AND REMEDIAL ACTION (RA),PRE-SARA; BUT ONLY REMOVAL AND RI/FS, POST-SARA.

TYPE: **NS - NATIONAL PRIORITIES LIST RESPONSIBLE PARTY SEARCH**

START DATE: **10/13/1999**

COMPLETION DATE: **11/03/1999**

ACTION TYPE DEFINITION:

THE NATIONAL PRIORITY LIST (NPL) POTENTIALLY RESPONSIBLE PARTY (PRP) SEARCH IS USED TO IDENTIFY PRPS AT A FINAL NPL OR PROPOSED NPL SITE. ACTIONS TYPICALLY INCLUDE TITLE SEARCH, FINANCIAL ASSESSMENTS, AND REVIEW OF APPLICABLE RECORDS. THE NPL PRP SEARCH SHOULD BEGIN UPON COMPLETION OF THE SCREENING SITE INVESTIGATION AND SHOULD BE CONDUCTED CONCURRENT WITH THE NATIONAL PRIORITIES LISTING PROCESS.

TYPE: **NJ - NOTICE LETTERS ISSUED**

START DATE: **NR**

COMPLETION DATE: **02/15/1995**

ACTION TYPE DEFINITION:

EPA ISSUES NOTICE LETTERS TO POTENTIALLY RESPONSIBLE PARTIES INFORMING THEM OF THEIR POTENTIAL LIABILITY UNDER CERCLA AND INVITING THEM TO DISCUSS INVOLVEMENT AT THE SITE.

TYPE: **NJ - NOTICE LETTERS ISSUED**

START DATE: **NR**

COMPLETION DATE: **08/30/1995**

ACTION TYPE DEFINITION:

EPA ISSUES NOTICE LETTERS TO POTENTIALLY RESPONSIBLE PARTIES INFORMING THEM OF THEIR POTENTIAL LIABILITY UNDER CERCLA AND INVITING THEM TO DISCUSS INVOLVEMENT AT THE SITE.

TYPE: **NJ - NOTICE LETTERS ISSUED**

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START DATE: NR

COMPLETION DATE: 07/09/1997

ACTION TYPE DEFINITION:

EPA ISSUES NOTICE LETTERS TO POTENTIALLY RESPONSIBLE PARTIES INFORMING THEM OF THEIR POTENTIAL LIABILITY UNDER CERCLA AND INVITING THEM TO DISCUSS INVOLVEMENT AT THE SITE.

TYPE: NJ - NOTICE LETTERS ISSUED

START DATE: NR

COMPLETION DATE: 06/25/1997

ACTION TYPE DEFINITION:

EPA ISSUES NOTICE LETTERS TO POTENTIALLY RESPONSIBLE PARTIES INFORMING THEM OF THEIR POTENTIAL LIABILITY UNDER CERCLA AND INVITING THEM TO DISCUSS INVOLVEMENT AT THE SITE.

TYPE: NJ - NOTICE LETTERS ISSUED

START DATE: NR

COMPLETION DATE: 09/05/1997

ACTION TYPE DEFINITION:

EPA ISSUES NOTICE LETTERS TO POTENTIALLY RESPONSIBLE PARTIES INFORMING THEM OF THEIR POTENTIAL LIABILITY UNDER CERCLA AND INVITING THEM TO DISCUSS INVOLVEMENT AT THE SITE.

TYPE: NJ - NOTICE LETTERS ISSUED

START DATE: NR

COMPLETION DATE: 09/22/1997

ACTION TYPE DEFINITION:

EPA ISSUES NOTICE LETTERS TO POTENTIALLY RESPONSIBLE PARTIES INFORMING THEM OF THEIR POTENTIAL LIABILITY UNDER CERCLA AND INVITING THEM TO DISCUSS INVOLVEMENT AT THE SITE.

TYPE: NJ - NOTICE LETTERS ISSUED

START DATE: NR

COMPLETION DATE: 08/10/1994

ACTION TYPE DEFINITION:

EPA ISSUES NOTICE LETTERS TO POTENTIALLY RESPONSIBLE PARTIES INFORMING THEM OF THEIR POTENTIAL LIABILITY UNDER CERCLA AND INVITING THEM TO DISCUSS INVOLVEMENT AT THE SITE.

TYPE: NJ - NOTICE LETTERS ISSUED

START DATE: NR

COMPLETION DATE: 08/12/1994

ACTION TYPE DEFINITION:

EPA ISSUES NOTICE LETTERS TO POTENTIALLY RESPONSIBLE PARTIES INFORMING THEM OF THEIR POTENTIAL LIABILITY UNDER CERCLA AND INVITING THEM TO DISCUSS INVOLVEMENT AT THE SITE.

TYPE: NJ - NOTICE LETTERS ISSUED

START DATE: NR

COMPLETION DATE: 02/18/1987

ACTION TYPE DEFINITION:

EPA ISSUES NOTICE LETTERS TO POTENTIALLY RESPONSIBLE PARTIES INFORMING THEM OF THEIR POTENTIAL LIABILITY UNDER CERCLA AND INVITING THEM TO DISCUSS INVOLVEMENT AT THE SITE.

TYPE: NJ - NOTICE LETTERS ISSUED

START DATE: NR

COMPLETION DATE: 10/04/1996

ACTION TYPE DEFINITION:

EPA ISSUES NOTICE LETTERS TO POTENTIALLY RESPONSIBLE PARTIES INFORMING THEM OF THEIR POTENTIAL LIABILITY

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UNDER CERCLA AND INVITING THEM TO DISCUSS INVOLVEMENT AT THE SITE.

TYPE: NS - NATIONAL PRIORITIES LIST RESPONSIBLE PARTY SEARCH

START DATE: 10/17/1990

COMPLETION DATE: 06/09/1994

ACTION TYPE DEFINITION:

THE NATIONAL PRIORITY LIST (NPL) POTENTIALLY RESPONSIBLE PARTY (PRP) SEARCH IS USED TO IDENTIFY PRPS AT A FINAL NPL OR PROPOSED NPL SITE. ACTIONS TYPICALLY INCLUDE TITLE SEARCH, FINANCIAL ASSESSMENTS, AND REVIEW OF APPLICABLE RECORDS. THE NPL PRP SEARCH SHOULD BEGIN UPON COMPLETION OF THE SCREENING SITE INVESTIGATION AND SHOULD BE CONDUCTED CONCURRENT WITH THE NATIONAL PRIORITIES LISTING PROCESS.

TYPE: NS - NATIONAL PRIORITIES LIST RESPONSIBLE PARTY SEARCH

START DATE: 07/07/1987

COMPLETION DATE: 11/30/1988

ACTION TYPE DEFINITION:

THE NATIONAL PRIORITY LIST (NPL) POTENTIALLY RESPONSIBLE PARTY (PRP) SEARCH IS USED TO IDENTIFY PRPS AT A FINAL NPL OR PROPOSED NPL SITE. ACTIONS TYPICALLY INCLUDE TITLE SEARCH, FINANCIAL ASSESSMENTS, AND REVIEW OF APPLICABLE RECORDS. THE NPL PRP SEARCH SHOULD BEGIN UPON COMPLETION OF THE SCREENING SITE INVESTIGATION AND SHOULD BE CONDUCTED CONCURRENT WITH THE NATIONAL PRIORITIES LISTING PROCESS.

TYPE: NS - NATIONAL PRIORITIES LIST RESPONSIBLE PARTY SEARCH

START DATE: 05/10/2005

COMPLETION DATE: 07/27/2006

ACTION TYPE DEFINITION:

THE NATIONAL PRIORITY LIST (NPL) POTENTIALLY RESPONSIBLE PARTY (PRP) SEARCH IS USED TO IDENTIFY PRPS AT A FINAL NPL OR PROPOSED NPL SITE. ACTIONS TYPICALLY INCLUDE TITLE SEARCH, FINANCIAL ASSESSMENTS, AND REVIEW OF APPLICABLE RECORDS. THE NPL PRP SEARCH SHOULD BEGIN UPON COMPLETION OF THE SCREENING SITE INVESTIGATION AND SHOULD BE CONDUCTED CONCURRENT WITH THE NATIONAL PRIORITIES LISTING PROCESS.

TYPE: NS - NATIONAL PRIORITIES LIST RESPONSIBLE PARTY SEARCH

START DATE: 04/26/2006

COMPLETION DATE: 03/20/2009

ACTION TYPE DEFINITION:

THE NATIONAL PRIORITY LIST (NPL) POTENTIALLY RESPONSIBLE PARTY (PRP) SEARCH IS USED TO IDENTIFY PRPS AT A FINAL NPL OR PROPOSED NPL SITE. ACTIONS TYPICALLY INCLUDE TITLE SEARCH, FINANCIAL ASSESSMENTS, AND REVIEW OF APPLICABLE RECORDS. THE NPL PRP SEARCH SHOULD BEGIN UPON COMPLETION OF THE SCREENING SITE INVESTIGATION AND SHOULD BE CONDUCTED CONCURRENT WITH THE NATIONAL PRIORITIES LISTING PROCESS.

TYPE: NS - NATIONAL PRIORITIES LIST RESPONSIBLE PARTY SEARCH

START DATE: 11/19/2005

COMPLETION DATE: 05/23/2006

ACTION TYPE DEFINITION:

THE NATIONAL PRIORITY LIST (NPL) POTENTIALLY RESPONSIBLE PARTY (PRP) SEARCH IS USED TO IDENTIFY PRPS AT A FINAL NPL OR PROPOSED NPL SITE. ACTIONS TYPICALLY INCLUDE TITLE SEARCH, FINANCIAL ASSESSMENTS, AND REVIEW OF APPLICABLE RECORDS. THE NPL PRP SEARCH SHOULD BEGIN UPON COMPLETION OF THE SCREENING SITE INVESTIGATION AND SHOULD BE CONDUCTED CONCURRENT WITH THE NATIONAL PRIORITIES LISTING PROCESS.

TYPE: OF - OPERATIONAL & FUNCTIONAL

START DATE: 12/01/1998

COMPLETION DATE: 09/28/1999

ACTION TYPE DEFINITION:

MEASURES TAKEN TO ENSURE THAT THE REMEDY IS FUNCTIONING PROPERLY AND IS PERFORMING AS DESIGNED. EPA

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WILL FUND UP TO ONE YEAR OF OF OR UP TO TEN YEARS OF OF IF THE REMEDY INVOLVES RESTORATION OF GROUND OR SURFACE WATER.

TYPE: PA - PRELIMINARY ASSESSMENT

START DATE: NR

COMPLETION DATE: 07/01/1982

ACTION TYPE DEFINITION:

COLLECTION OF DIVERSE EXISTING INFORMATION ABOUT THE SOURCE AND NATURE OF THE SITE HAZARD. IT IS EPA POLICY TO COMPLETE THE PRELIMINARY ASSESSMENT WITHIN ONE YEAR OF SITE DISCOVERY.

TYPE: PC - PREPARATION OF COST DOCUMENT PACKAGE

START DATE: 01/31/1993

COMPLETION DATE: 12/31/1993

ACTION TYPE DEFINITION:

PACKAGE PREPARED IN SUPPORT OF COST RECOVERY ACTIONS CONTAINING SITE-SPECIFIC COST DOCUMENTATION INFORMATION FOR DIRECT EXPENDITURES (I.E., AGENCY PAYROLL AND TRAVEL, CONTRACTING COSTS) AND INDIRECT COSTS. DOCUMENTATION MAY BE CONDENSED PER RULE 1006 OF THE FEDERAL RULES OF EVIDENCE.

TYPE: PJ - POTENTIALLY RESPONSIBLE PARTY EMERGENCY REMOVAL - TIME CRITICAL

START DATE: 07/17/2006

COMPLETION DATE: 08/29/2006

ACTION TYPE DEFINITION:

THE PRP OR THEIR CONTRACTORS HAVE BEGUN CONSTRUCTION WORK ON-SITE IN RESPONSE TO AN EMERGENCY INCIDENT, AND EPA PROVIDES ON-SITE TECHNICAL OVERSIGHT AND/OR IS PART OF AN INCIDENT COMMAND SYSTEM/UNIFIED COMMAND. THE DATE OF CONSTRUCTION IS REPORTED IN WASTELAN AS THE PRP EMERGENCY REMOVAL ACTUAL START DATE.

TYPE: FE - FIVE-YEAR REVIEW

START DATE: 12/02/1998

COMPLETION DATE: 03/26/1999

ACTION TYPE DEFINITION:

A REVIEW THAT IS CONDUCTED AT A MINIMUM OF EVERY FIVE YEARS TO DETERMINE IF THE IMPLEMENTATION AND PERFORMANCE OF A REMEDY IS PROTECTIVE OR WILL BE PROTECTIVE OF HUMAN HEALTH AND THE ENVIRONMENT.

TYPE: AS - AERIAL SURVEY

START DATE: 03/18/1991

COMPLETION DATE: 06/25/1991

ACTION TYPE DEFINITION:

PROVIDE AERIAL PHOTOGRAPHY, MULTISPECTRAL SCANNER (MSS), FORWARD LOOKING INFRARED (FLIR), AND HISTORICAL AERIAL PHOTOGRAPHS WITH ANALYSES SUPPORT FOR REGIONAL OFFICES AND OERR REQUIREMENTS FOR PRE-REMEDIAL AND REMEDIAL ACTIONS. THE AERIAL SURVEY SUPPORT PROVIDES FOUR TYPES OF REMOTE SENSING PROJECTS: (1) EMERGENCY RESPONSE PROJECTS FOR RAPID ACQUISITION AND ASSESSMENT, (2) SINGLE DATE PROJECTS TO ACQUIRE CURRENT DATA, (3) INTENSIVE SITE ANALYSES TO ACQUIRE IMAGERY OVER A PERIOD OF TIME USING HISTORICAL AERIAL PHOTOGRAPHS DATING BACK AS FAR AS 1920, (4) WASTE SITE INVENTORIES TO ESTABLISH BASELINE REFERENCE OVER LARGE AREAS. CERCLA HAZARDOUS WASTE SITES.

TYPE: NP - PROPOSAL TO NATIONAL PRIORITIES LIST

START DATE: NR

COMPLETION DATE: 12/30/1982

ACTION TYPE DEFINITION:

SITE PROPOSED FOR INCLUSION ON THE NATIONAL PRIORITY LIST BASED ON THE HAZARD RANKING SYSTEM (HRS) SCORE FOR THE SITE.

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TYPE: **IC - ISSUE REQUEST LETTERS (104E)**

START DATE: **NR**

COMPLETION DATE: **02/15/1995**

ACTION TYPE DEFINITION:

EPA ISSUES LETTERS UNDER THE AUTHORITY OF SECTION 104(E) TO GATHER INFORMATION RELATED TO (1) THE IDENTIFICATION, NATURE, AND QUANTITY OF MATERIALS; (2) THE NATURE OR EXTENT OF A RELEASE OR THREATENED RELEASE OF A HAZARDOUS SUBSTANCE, POLLUTANT, OR CONTAMINANT; OR (3) THE ABILITY OF A PERSON TO PAY FOR OR TO PERFORM A CLEANUP.

TYPE: **FE - FIVE-YEAR REVIEW**

START DATE: **04/28/2004**

COMPLETION DATE: **09/29/2004**

ACTION TYPE DEFINITION:

A REVIEW THAT IS CONDUCTED AT A MINIMUM OF EVERY FIVE YEARS TO DETERMINE IF THE IMPLEMENTATION AND PERFORMANCE OF A REMEDY IS PROTECTIVE OR WILL BE PROTECTIVE OF HUMAN HEALTH AND THE ENVIRONMENT.

TYPE: **FE - FIVE-YEAR REVIEW**

START DATE: **05/01/2007**

COMPLETION DATE: **09/29/2009**

ACTION TYPE DEFINITION:

A REVIEW THAT IS CONDUCTED AT A MINIMUM OF EVERY FIVE YEARS TO DETERMINE IF THE IMPLEMENTATION AND PERFORMANCE OF A REMEDY IS PROTECTIVE OR WILL BE PROTECTIVE OF HUMAN HEALTH AND THE ENVIRONMENT.

TYPE: **NS - NATIONAL PRIORITIES LIST RESPONSIBLE PARTY SEARCH**

START DATE: **04/22/1993**

COMPLETION DATE: **03/15/1994**

ACTION TYPE DEFINITION:

THE NATIONAL PRIORITY LIST (NPL) POTENTIALLY RESPONSIBLE PARTY (PRP) SEARCH IS USED TO IDENTIFY PRPS AT A FINAL NPL OR PROPOSED NPL SITE. ACTIONS TYPICALLY INCLUDE TITLE SEARCH, FINANCIAL ASSESSMENTS, AND REVIEW OF APPLICABLE RECORDS. THE NPL PRP SEARCH SHOULD BEGIN UPON COMPLETION OF THE SCREENING SITE INVESTIGATION AND SHOULD BE CONDUCTED CONCURRENT WITH THE NATIONAL PRIORITIES LISTING PROCESS.

TYPE: **NJ - NOTICE LETTERS ISSUED**

START DATE: **NR**

COMPLETION DATE: **08/30/1995**

ACTION TYPE DEFINITION:

EPA ISSUES NOTICE LETTERS TO POTENTIALLY RESPONSIBLE PARTIES INFORMING THEM OF THEIR POTENTIAL LIABILITY UNDER CERCLA AND INVITING THEM TO DISCUSS INVOLVEMENT AT THE SITE.

TYPE: **FS - FEASIBILITY STUDY**

START DATE: **09/01/1986**

COMPLETION DATE: **09/30/1991**

ACTION TYPE DEFINITION:

A STUDY OF A HAZARDOUS WASTE SITE INTENDED TO (1) EVALUATE ALTERNATIVE REMEDIAL ACTIONS FROM TECHNICAL, ENVIRONMENTAL, AND COST-EFFECTIVENESS PERSPECTIVES; (2) RECOMMEND THE COST-EFFECTIVE REMEDIAL ACTION; AND (3) PREPARE A CONCEPTUAL DESIGN, A COSTESTIMATE FOR BUDGETARY PURPOSES, AND A PRELIMINARY CONSTRUCTION SCHEDULE.

TYPE: **FS - FEASIBILITY STUDY**

START DATE: **09/17/1986**

COMPLETION DATE: **09/30/1987**

ACTION TYPE DEFINITION:

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A STUDY OF A HAZARDOUS WASTE SITE INTENDED TO (1) EVALUATE ALTERNATIVE REMEDIAL ACTIONS FROM TECHNICAL, ENVIRONMENTAL, AND COST-EFFECTIVENESS PERSPECTIVES; (2) RECOMMEND THE COST-EFFECTIVE REMEDIAL ACTION; AND (3) PREPARE A CONCEPTUAL DESIGN, A COSTESTIMATE FOR BUDGETARY PURPOSES, AND A PRELIMINARY CONSTRUCTION SCHEDULE.

TYPE: **FS - FEASIBILITY STUDY**

START DATE: **04/09/1987**

COMPLETION DATE: **03/31/1988**

ACTION TYPE DEFINITION:

A STUDY OF A HAZARDOUS WASTE SITE INTENDED TO (1) EVALUATE ALTERNATIVE REMEDIAL ACTIONS FROM TECHNICAL, ENVIRONMENTAL, AND COST-EFFECTIVENESS PERSPECTIVES; (2) RECOMMEND THE COST-EFFECTIVE REMEDIAL ACTION; AND (3) PREPARE A CONCEPTUAL DESIGN, A COSTESTIMATE FOR BUDGETARY PURPOSES, AND A PRELIMINARY CONSTRUCTION SCHEDULE.

TYPE: **GU - NON-CONSENSUAL JUDICIAL ORDER**

START DATE: **NR**

COMPLETION DATE: **08/22/2007**

ACTION TYPE DEFINITION:

ANY ORDER ISSUED BY THE COURT OTHER THAN A CONSENT ORDER OR ADMINISTRATIVE DEFAULT ORDER.

TYPE: **IC - ISSUE REQUEST LETTERS (104E)**

START DATE: **NR**

COMPLETION DATE: **04/22/1993**

ACTION TYPE DEFINITION:

EPA ISSUES LETTERS UNDER THE AUTHORITY OF SECTION 104(E) TO GATHER INFORMATION RELATED TO (1) THE IDENTIFICATION, NATURE, AND QUANTITY OF MATERIALS; (2) THE NATURE OR EXTENT OF A RELEASE OR THREATENED RELEASE OF A HAZARDOUS SUBSTANCE, POLLUTANT, OR CONTAMINANT; OR (3) THE ABILITY OF A PERSON TO PAY FOR OR TO PERFORM A CLEANUP.

TYPE: **IC - ISSUE REQUEST LETTERS (104E)**

START DATE: **NR**

COMPLETION DATE: **10/04/1996**

ACTION TYPE DEFINITION:

EPA ISSUES LETTERS UNDER THE AUTHORITY OF SECTION 104(E) TO GATHER INFORMATION RELATED TO (1) THE IDENTIFICATION, NATURE, AND QUANTITY OF MATERIALS; (2) THE NATURE OR EXTENT OF A RELEASE OR THREATENED RELEASE OF A HAZARDOUS SUBSTANCE, POLLUTANT, OR CONTAMINANT; OR (3) THE ABILITY OF A PERSON TO PAY FOR OR TO PERFORM A CLEANUP.

TYPE: **JF - ECOLOGICAL RISK ASSESSMENT**

START DATE: **07/28/2000**

COMPLETION DATE: **11/14/2001**

ACTION TYPE DEFINITION:

ASSESSMENT OF THE BASELINE RISKS POSED BY THE SITE TO ECOLOGICAL RECEPTORS.

TYPE: **JQ - RECORD OF DECISION AMENDMENT**

START DATE: **NR**

COMPLETION DATE: **09/22/2003**

ACTION TYPE DEFINITION:

SIGNIFICANT CHANGE FROM THE ORIGINAL SELECTED REMEDY STATED IN THE ORIGINAL RECORD OF DECISION (ROD), SUCH AS NEW TECHNOLOGY OR NEW MEDIUM.

TYPE: **LR - LONG TERM RESPONSE ACTION**

START DATE: **09/28/1999**

National Priorities List (NPL)

COMPLETION DATE: 09/30/2009

ACTION TYPE DEFINITION:

SITE REQUIREMENTS ASSOCIATED WITH A REMEDY THAT MUST BE PERFORMED AFTER COMPLETION OF A REMEDIAL ACTION.

TYPE: **NF - FINAL LISTING ON NATIONAL PRIORITIES LIST**

START DATE: **NR**

COMPLETION DATE: 09/08/1983

ACTION TYPE DEFINITION:

SITE MOVED FROM PROPOSED LIST TO FINAL NATIONAL PRIORITY LIST.

TYPE: **JQ - RECORD OF DECISION AMENDMENT**

START DATE: **NR**

COMPLETION DATE: 04/29/2010

ACTION TYPE DEFINITION:

SIGNIFICANT CHANGE FROM THE ORIGINAL SELECTED REMEDY STATED IN THE ORIGINAL RECORD OF DECISION (ROD), SUCH AS NEW TECHNOLOGY OR NEW MEDIUM.

TYPE: **HR - HAZARD RANKING SYSTEM PACKAGE**

START DATE: **NR**

COMPLETION DATE: 12/01/1982

ACTION TYPE DEFINITION:

A NUMERIC ESTIMATE OF THE RELATIVE SEVERITY OF A HAZARDOUS SUBSTANCE RELEASE OR POTENTIAL RELEASE BASED ON: (1) THE RELATIVE POTENTIAL OF SUBSTANCES TO CAUSE HAZARDOUS SITUATIONS; (2) THE LIKELIHOOD AND RATE AT WHICH THE SUBSTANCES MAY AFFECT HUMAN AND ENVIRONMENTAL RECEPTORS; AND (3) THE SEVERITY AND MAGNITUDE OF POTENTIAL EFFECTS. THE SCORE IS COMPUTED USING THE HAZARD RANKING SYSTEM (HRS).

TYPE: **LO - LODGED BY DOJ**

START DATE: **NR**

COMPLETION DATE: 02/12/1997

ACTION TYPE DEFINITION:

AN ENFORCEMENT INSTRUMENT (E.G. CONSENT DECREE) IS LODGED BY DOJ WITH THE COURT.

TYPE: **NJ - NOTICE LETTERS ISSUED**

START DATE: **NR**

COMPLETION DATE: 09/04/1991

ACTION TYPE DEFINITION:

EPA ISSUES NOTICE LETTERS TO POTENTIALLY RESPONSIBLE PARTIES INFORMING THEM OF THEIR POTENTIAL LIABILITY UNDER CERCLA AND INVITING THEM TO DISCUSS INVOLVEMENT AT THE SITE.

TYPE: **LO - LODGED BY DOJ**

START DATE: **NR**

COMPLETION DATE: 03/15/2007

ACTION TYPE DEFINITION:

AN ENFORCEMENT INSTRUMENT (E.G. CONSENT DECREE) IS LODGED BY DOJ WITH THE COURT.

TYPE: **MA - STATE SUPPORT AGENCY COOPERATIVE AGREEMENT**

START DATE: 07/10/1985

COMPLETION DATE: 06/15/1988

ACTION TYPE DEFINITION:

FEDERAL RENUMERATION OF STATE ADMINISTRATIVE COSTS OF PARTICIPATION IN SITE-SPECIFIC REMEDIAL PLANNING OR IMPLEMENTATION ACTIVITIES.

TYPE: **JQ - RECORD OF DECISION AMENDMENT**

National Priorities List (NPL)

START DATE: NR

COMPLETION DATE: 09/25/2006

ACTION TYPE DEFINITION:

SIGNIFICANT CHANGE FROM THE ORIGINAL SELECTED REMEDY STATED IN THE ORIGINAL RECORD OF DECISION (ROD), SUCH AS NEW TECHNOLOGY OR NEW MEDIUM.

TYPE: **NG - NEGOTIATION (GENERIC)**

START DATE: 08/10/1994

COMPLETION DATE: 06/08/1995

ACTION TYPE DEFINITION:

THIS ACTION IS USED TO CODE NEGOTIATIONS THAT COVER ANY COMBINATION OF REMEDIES OR STATUTES (CERCLA, SARA, RCRA) NOT REFLECTED IN THE CONVENTIONAL ACTIVITY TYPES OF AN (RD/RA NEGOTIATIONS), FN (RI/FS NEGOTIATIONS), RN (REMOVAL NEGOTIATIONS) AND NE (COST RECOVERY NEGOTIATIONS). IF PREFERRED, THIS ACTIVITY CAN BE USED TO CODE ALL NEGOTIATION TYPES INSTEAD OF USING THE CONVENTIONAL AN, FN, RN, AND NE CODES. BECAUSE THIS ACTIVITY IS GENERIC, CODING THE STATUTES AND THE REMEDY TYPES CORRECTLY IS MANDATORY. ALL OTHER EDIT CHECKS AND CODING REQUIREMENTS THAT APPLY TO AN, FN, RN, AND NE APPLY TO NG AS WELL. EXAMPLES: ACTION=NG, STATUTE=106,122, REMEDY=RA IS EQUIVALENT TO AN; ACTION=NG, STATUTE=107,122, REMEDY=VA IS EQUIVALENT TO NE; ACTION=NG, STATUTE=106,122, REMEDY=RV IS EQUIVALENT TO RN; ACTION=NG, STATUTE=106,122, REMEDY=CO IS EQUIVALENT TO FN; ACTION=NG, STATUTE=106,122, REMEDY=OM, VD, VA, CO ARE COMBINATIONS NOT COVERED BY AN, FN, RN, NE.

TYPE: **LT - LITIGATION (GENERIC)**

START DATE: 08/08/2007

COMPLETION DATE: 08/22/2007

ACTION TYPE DEFINITION:

THIS ACTIVITY IS USED TO CODE REFERRALS FOR LITIGATION THAT COVER ANY COMBINATION OF REMEDIES OR STATUTES (CERCLA, SARA, RCRA) NOT REFLECTED IN THE CONVENTIONAL ACTIVITY TYPES OF SX (SECTION 106), SV (SECTION 107), CL (COMBINED 106/107), AND SF (SECTION 104). IF PREFERRED, THIS ACTIVITY CAN BE USED TO CODE ALL REFERRAL TYPES INSTEAD OF USING THE CONVENTIONAL SX, SV, CL, SF CODES. BECAUSE THIS ACTIVITY IS GENERIC, CODING THE STATUTES (STATUTE) AND THE REMEDY TYPES (REMEDY) CORRECTLY IS MANDATORY. ALL OTHER EDIT CHECKS AND CODING REQUIREMENTS THAT APPLY TO SX, SV, CL, AND SF APPLY TO LT AS WELL. EXAMPLES: ACTION=LT, STATUTE=106, REMEDY=RA IS EQUIVALENT TO SX; ACTION=LT, STATUTE=107, REMEDY=VA IS EQUIVALENT TO SV; ACTION=LT, STATUTE=106,107, REMEDY=VD, RA IS EQUIVALENT TO CL; ACTION=LT, STATUTE=104, REMEDY=SE, DE IS EQUIVALENT TO SF; ACTION=LT, STATUTE=104,107,106, REMEDY=DE, VM, RD, RA, IS A COMBINATION NOT COVERED BY SX, SV, CL, SF.

CONTAMINANTS

WASTE SOURCE MEDIA CONTAMINATED NAME: **CADMIUM**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **CADMIUM**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **COPPER**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **COPPER**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **GROUNDWATER 01 RVNEI**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

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CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**
HAZARDOUS SUBSTANCE NAME: **ARSENIC**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **GROUNDWATER 01 RVNEI**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**
HAZARDOUS SUBSTANCE NAME: **CADMIUM**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **GROUNDWATER 01 RVNEI**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**
HAZARDOUS SUBSTANCE NAME: **CHROMIUM**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **GROUNDWATER 01 RVNEI**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**
HAZARDOUS SUBSTANCE NAME: **LEAD**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **GROUNDWATER**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **4600 UG/L**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **FLUORIDE**
CONTAMINANT GROUP NAME: **INORGANICS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **GROUNDWATER**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **7.5 UG/L**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **ARSENIC**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **GROUNDWATER**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **312 UG/L**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **CADMIUM**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **GROUNDWATER**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **9 UG/L**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **CHROMIUM**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **GROUNDWATER**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **6700 UG/L**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **COPPER**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **GROUNDWATER**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **50000 UG/L**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

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HAZARDOUS SUBSTANCE NAME: **MANGANESE**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **GROUNDWATER**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **688 UG/L**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **NICKEL**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **GROUNDWATER**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **0.2 UG/L**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **SILVER**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **GROUNDWATER**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **60100 UG/L**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **ZINC**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **GROUNDWATER**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **ARSENIC**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **LEAD**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **LEAD**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **ZINC**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **ZINC**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **ARGO TREATMENT**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **ACID COMPOUNDS**

CONTAMINANT GROUP NAME: **ACIDS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **ARGO TREATMENT**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **METALS**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **LEACHATE**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **ZINC**

National Priorities List (NPL)

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **NCC PIPELINE**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **ACID COMPOUNDS**

CONTAMINANT GROUP NAME: **ACIDS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **NCC PIPELINE**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **METALS**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **CYANIDE**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **SODIUM CYANIDE**

CONTAMINANT GROUP NAME: **INORGANICS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **LIQUID MERCURY**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **MERCURY**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **ACID MINE DRAINAGE**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **ARSENIC**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **ACID MINE DRAINAGE**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **LEAD**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **ACID MINE DRAINAGE**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **MANGANESE**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **ACID MINE DRAINAGE**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **METALS**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **ACID MINE DRAINAGE**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **ZINC**

CONTAMINANT GROUP NAME: **METALS**

National Priorities List (NPL)

WASTE SOURCE MEDIA CONTAMINATED NAME: **SEDIMENT**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **CADMIUM**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SEDIMENT**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **COPPER**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SEDIMENT**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **ZINC**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SEDIMENT**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **ARSENIC**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SEDIMENT**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **CADMIUM**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SEDIMENT**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **COPPER**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SEDIMENT**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **LEAD**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SEDIMENT**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **MANGANESE**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SEDIMENT**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **ZINC**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SOIL 01 MATRL**

National Priorities List (NPL)

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**
HAZARDOUS SUBSTANCE NAME: **ARSENIC**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **SOIL 01 MATRL**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**
HAZARDOUS SUBSTANCE NAME: **CADMIUM**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **SOIL 01 MATRL**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**
HAZARDOUS SUBSTANCE NAME: **CHROMIUM**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **SOIL 01 MATRL**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**
HAZARDOUS SUBSTANCE NAME: **LEAD**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **SOIL 01 MATRL**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**
HAZARDOUS SUBSTANCE NAME: **ZINC**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **SOIL 01 MATRL**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**
HAZARDOUS SUBSTANCE NAME: **ARSENIC**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **SOIL 01 MATRL**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**
HAZARDOUS SUBSTANCE NAME: **LEAD**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **SOIL 01 MATRL**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**
HAZARDOUS SUBSTANCE NAME: **MANGANESE**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **SOIL 01 MATRL**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**
HAZARDOUS SUBSTANCE NAME: **METALS**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **SOIL 01 MATRL**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

National Priorities List (NPL)

HAZARDOUS SUBSTANCE NAME: **CADMIUM**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **SOIL 02 MATRL**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**
HAZARDOUS SUBSTANCE NAME: **CHROMIUM**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **SOIL 02 MATRL**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**
HAZARDOUS SUBSTANCE NAME: **LEAD**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **SOIL 02 MATRL**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**
HAZARDOUS SUBSTANCE NAME: **ZINC**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **SOIL OU 03, RA 01**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**
HAZARDOUS SUBSTANCE NAME: **METALS**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **TAILINGS**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **METALS**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **5 PILES SOLID WASTE**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**
HAZARDOUS SUBSTANCE NAME: **FLUORIDE**
CONTAMINANT GROUP NAME: **INORGANICS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **5 PILES SOLID WASTE**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**
HAZARDOUS SUBSTANCE NAME: **ALUMINUM**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **5 PILES SOLID WASTE**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **ARSENIC**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **5 PILES SOLID WASTE**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **CADMIUM**

National Priorities List (NPL)

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **5 PILES SOLID WASTE**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **CHROMIUM (HEXAVALENT)**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **5 PILES SOLID WASTE**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **COPPER**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **5 PILES SOLID WASTE**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **LEAD**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **5 PILES SOLID WASTE**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **MANGANESE**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **5 PILES SOLID WASTE**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **NICKEL**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **5 PILES SOLID WASTE**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **SILVER**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **5 PILES SOLID WASTE**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **ZINC**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **BIG 5/GREGORY SW**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **FLUORIDE**

CONTAMINANT GROUP NAME: **INORGANICS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **BIG 5/GREGORY SW**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **ALUMINUM**

CONTAMINANT GROUP NAME: **METALS**

National Priorities List (NPL)

WASTE SOURCE MEDIA CONTAMINATED NAME: **BIG 5/GREGORY SW**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **ARSENIC**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **BIG 5/GREGORY SW**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **CADMIUM**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **BIG 5/GREGORY SW**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **CHROMIUM (HEXAVALENT)**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **BIG 5/GREGORY SW**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**
HAZARDOUS SUBSTANCE NAME: **COPPER**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **BIG 5/GREGORY SW**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **LEAD**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **BIG 5/GREGORY SW**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**
HAZARDOUS SUBSTANCE NAME: **MANGANESE**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **BIG 5/GREGORY SW**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **NICKEL**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **BIG 5/GREGORY SW**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **SILVER**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **BIG 5/GREGORY SW**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**
HAZARDOUS SUBSTANCE NAME: **ZINC**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **MINE WASTE**

National Priorities List (NPL)

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **ARSENIC**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **MINE WASTE**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **LEAD**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **SOLID WASTE**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **630 MG/KG**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **ARSENIC**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **SOLID WASTE**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **28 MG/KG**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **CADMIUM**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **SOLID WASTE**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **83 MG/KG**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **CHROMIUM**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **SOLID WASTE**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **790 MG/KG**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **COPPER**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **SOLID WASTE**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **5630 MG/KG**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **MANGANESE**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **SOLID WASTE**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **38 MG/KG**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **NICKEL**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **SOLID WASTE**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **35 MG/KG**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **SILVER**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **SOLID WASTE**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **5830 MG/KG**

National Priorities List (NPL)

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **ZINC**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **SOLID WASTE**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **ARSENIC**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **SOLID WASTE**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **CADMIUM**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **SOLID WASTE**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **COPPER**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **SOLID WASTE**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **LEAD**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **SOLID WASTE**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **MANGANESE**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **SOLID WASTE**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **ZINC**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **MINE DRAINAGE**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **ZINC**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER 01 MAT**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**
HAZARDOUS SUBSTANCE NAME: **METALS**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER 01 MAT**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

National Priorities List (NPL)

HAZARDOUS SUBSTANCE NAME: **METALS**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER 01 MAT**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **METALS**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER 01 MAT**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **ARSENIC**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER 01 MAT**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **BARIUM**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER 01 MAT**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **CADMIUM**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER 01 MAT**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **CHROMIUM**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER 01 MAT**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **LEAD**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER 01 MAT**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **METALS**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER 01 MAT**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **VOC**

CONTAMINANT GROUP NAME: **VOC**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SW CLEAR CREEK**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **19600 UG/L**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **ALUMINUM**

National Priorities List (NPL)

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SW CLEAR CREEK**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **135 UG/L**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **ARSENIC**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SW CLEAR CREEK**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **12.6 UG/L**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **CADMIUM**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SW CLEAR CREEK**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **19 UG/L**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **CHROMIUM**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SW CLEAR CREEK**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **5170 UG/L**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **COPPER**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SW CLEAR CREEK**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **144000 UG/L**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **IRON**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SW CLEAR CREEK**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **59 UG/L**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **LEAD**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SW CLEAR CREEK**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **84050 UG/L**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **MANGANESE**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SW CLEAR CREEK**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **239 UG/L**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **NICKEL**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SW CLEAR CREEK**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **75 UG/L**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **SILVER**

CONTAMINANT GROUP NAME: **METALS**

National Priorities List (NPL)

WASTE SOURCE MEDIA CONTAMINATED NAME: **SW CLEAR CREEK**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **42375 UG/L**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **ZINC**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SW NORTH CLEAR CREEK**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **63400 UG/L**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **ALUMINUM**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SW NORTH CLEAR CREEK**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **1474 UG/L**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **ARSENIC**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SW NORTH CLEAR CREEK**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **363 UG/L**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **CADMIUM**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SW NORTH CLEAR CREEK**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **56 UG/L**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **CHROMIUM**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SW NORTH CLEAR CREEK**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **48733 UG/L**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **COPPER**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SW NORTH CLEAR CREEK**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **549667 UG/L**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **IRON**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SW NORTH CLEAR CREEK**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **137 UG/L**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **LEAD**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SW NORTH CLEAR CREEK**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **62100 UG/L**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **MANGANESE**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SW NORTH CLEAR CREEK**

National Priorities List (NPL)

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **480 UG/L**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **NICKEL**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SW NORTH CLEAR CREEK**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **18 UG/L**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **SILVER**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SW NORTH CLEAR CREEK**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **89300 UG/L**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **ZINC**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **2 UG/L**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **ARSENIC**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **20 UG/L**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **CADMIUM**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **2960 UG/L**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **COPPER**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **16 UG/L**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **LEAD**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **19500 UG/L**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **MANGANESE**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **0.1 UG/L**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **MERCURY**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **7610 UG/L**

National Priorities List (NPL)

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **ZINC**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **4800 UG/L**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **FLUORIDE**

CONTAMINANT GROUP NAME: **INORGANICS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **3 UG/L**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **ARSENIC**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **19 UG/L**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **CADMIUM**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **59 UG/L**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **CHROMIUM**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **203 UG/L**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **COPPER**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **10000 UG/L**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **MANGANESE**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **87 UG/L**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **NICKEL**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **2220 UG/L**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **ZINC**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

National Priorities List (NPL)

HAZARDOUS SUBSTANCE NAME: **CADMIUM**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **COPPER**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **MANGANESE**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **MERCURY**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **ZINC**

CONTAMINANT GROUP NAME: **METALS**

LISTING OF PUBLISHED INSTITUTIONAL CONTROL SITE REPORT - NOT AN INSTITUTIONAL CONTROL SITE -

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Leaking Storage Tank Facilities (LST)

[MAP ID# 2](#)

Distance from Property: 0.01 mi. (53 ft.) SW

FACILITY INFORMATION

UNIQUE ID: 13518LST

FACILITY ID: 13518

NAME: DOWNIEVILLE

ADDRESS: I-70 IN DOWNIEVILLE
DOWNIEVILLE, CO 80436

SITE NAME: DOWNIEVILLE

LOCATION: I-70 IN DOWNIEVILLE
DOWNIEVILLE 80436

LEAKING INFORMATION

EVENT ID: STATUS: RELEASE DATE:

5409 CLOSED 7/1/1990

COSTIS LINK: http://costis.cdle.state.co.us/event.asp?h_id=5409

ALTERNATE NAME:

DOWNIEVILLE

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Leaking Storage Tank Facilities (LST)

MAP ID# 3

Distance from Property: 0.01 mi. (53 ft.) SW

FACILITY INFORMATION

UNIQUE ID: 10633LST

FACILITY ID: 10633

NAME: CLEAR CREEK DISTRIBUTING

ADDRESS: I-70 & EXIT 243 HIDDEN VALLEY

IDAHO SPRINGS, CO 80452

SITE NAME: CLEAR CREEK DISTRIBUTING CO INC

LOCATION: I-70 & EXIT 243 HIDDEN VALLEY
IDAHO SPRINGS 80452

LEAKING INFORMATION

EVENT ID: STATUS: RELEASE DATE:

87 CLOSED 10/26/1993

ALTERNATE NAME:

CLEAR CREEK DISTRIBUTING CO INC

COSTIS LINK: http://costis.cdle.state.co.us/event.asp?h_id=87

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Leaking Storage Tank Facilities (LST)

MAP ID# 3

Distance from Property: 0.01 mi. (53 ft.) SW

FACILITY INFORMATION

UNIQUE ID: 13961LST

FACILITY ID: 13961

NAME: HIDDEN VALLEY TEXACO

ADDRESS: I-70 & EXIT 243

HIDDEN VALLEY EXIT

IDAHO SPRINGS, CO 80452

SITE NAME: HIDDEN VALLEY TEXACO

LOCATION: I-70 & EXIT 243

HIDDEN VALLEY EXIT
IDAHO SPRINGS 80452

LEAKING INFORMATION

EVENT ID: STATUS: RELEASE DATE:

3706 **CLOSED** 4/13/1990

ALTERNATE NAME:

HIDDEN VALLEY TEXACO

COSTIS LINK: http://costis.cdle.state.co.us/event.asp?h_id=3706

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Emergency Response Notification System (ERNSCO)

MAP ID# 3

Distance from Property: 0.01 mi. (53 ft.) SW

INCIDENT INFORMATION

GSID#: 775726

NRC ID#: 775726

INCIDENT LOCATION: INTERSTATE 70 AT MILE 243

INCIDENT ADDRESS: NOT REPORTED
IDAHO SPRINGS, CO

INCIDENT COUNTY: CLEAR CREEK

INCIDENT DETAILS

INCIDENT DATE: 10/11/2005 1:05:00 AM

INCIDENT CAUSE: TRANSPORT ACCIDENT

INCIDENT TYPE: MOBILE

INCIDENT OCCURED/DISCOVERED: DISCOVERED

INCIDENT DESCRIPTION: A COLLISION RESULTED IN THE PUNCTURE OF A FUEL TANK CAUSING A RELEASE.

RESPONSIBLE PARTY

RESPONSIBLE COMPANY: COLORADO STATE PATROL

ADDRESS: ADDRESS NOT REPORTED
DENVER CO 80215

RESPONSIBLE COMPANY ORGANIZATION TYPE: STATE GOVERNMENT

MATERIALS INVOLVED

CHRIS CODE: OTD

MATERIAL REACHED WATER: YES

WATER AMOUNT: UNKNOWN AMOUNT / NOT REPORTED

MATERIAL RELEASED/AMOUNT: OIL, FUEL: NO. 2-D / 80 GALLON(S)

OTHER MATERIALS INVOLVED

- NO OTHER MATERIALS INVOLVED -

REMEDIAL ACTION

REMEDIAL ACTION: PLUGGED THE LEAK, AND UNLOADED THE REMAINING FUEL, CONTRACTOR HIRED AND ON SCENE.

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Emergency Response Notification System (ERNSCO)

MAP ID# 3

Distance from Property: 0.01 mi. (53 ft.) SW

INCIDENT INFORMATION

GSID#: 808446

NRC ID#: 808446

INCIDENT LOCATION: INTERSTATE 70 MILEPOST 243

INCIDENT ADDRESS: NOT REPORTED
IDAHO SPRINGS, CO

INCIDENT COUNTY: CLEAR CREEK

INCIDENT DETAILS

INCIDENT DATE: 8/18/2006 10:02:00 PM

INCIDENT CAUSE: OPERATOR ERROR

INCIDENT TYPE: FIXED

INCIDENT OCCURED/DISCOVERED: OCCURRED

INCIDENT DESCRIPTION: CALLER STATES THAT PLASTIC PIPING ASH PARTICULATE HAS DISCHARGED INTO THE CLEAR CREEK WATERWAY. A TOWING/TRACTOR TRAILOR COMBO HAD A LOAD OF EBS CELL CORE PLASTIC PIPING. WHILE THE MATERIAL WAS BEING TOWED IT HAD A WHEEL BRAKE CATCH ON FIRE, WHICH LIT TH

RESPONSIBLE PARTY

RESPONSIBLE COMPANY: DILLON TOWING

ADDRESS: ADDRESS NOT REPORTED
DILLON CO 80435

RESPONSIBLE COMPANY ORGANIZATION TYPE: PRIVATE ENTERPRISE

MATERIALS INVOLVED

CHRIS CODE: NCC

MATERIAL REACHED WATER: YES

WATER AMOUNT: UNKNOWN AMOUNT / NOT REPORTED

MATERIAL RELEASED/AMOUNT: PARTICULATE PLASTIC PIPING / UNKNOWN AMOUNT

OTHER MATERIALS INVOLVED

- NO OTHER MATERIALS INVOLVED -

REMEDIAL ACTION

REMEDIAL ACTION: EXTINGUISHED FIRE. DEBRIS REMOVED.

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Facility Registry System (FRSCO)

MAP ID# 3

Distance from Property: 0.01 mi. (53 ft.) SW

FACILITY INFORMATION

REGISTRY ID: 110045478158

NAME: IDAHO SPRINGS ROAD PROJECT

LOCATION ADDRESS: CENTRAL CITY PKWY & I-70

IDAHO SPRINGS, CO 80452

COUNTY: CLEAR CREEK

EPA REGION: 08

FEDERAL FACILITY: NOT REPORTED

TRIBAL LAND: NOT REPORTED

ALTERNATIVE NAME/S:

IDAHO SPRINGS ROAD PROJECT

PROGRAM/S LISTED FOR THIS FACILITY

NPDES - NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

NO SIC DATA REPORTED

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

NO NAICS DATA REPORTED

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Underground Storage Tank Facilities (UST)

MAP ID# 3

Distance from Property: 0.01 mi. (53 ft.) SW

FACILITY INFORMATION

FACILITY ID: 10633

NAME: CLEAR CREEK DISTRIBUTING

ADDRESS: I-70 EXIT 243 HIDDEN VALLEY
IDAHO SPRINGS, CO 80452

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=10633

OWNER INFORMATION

OWNER ID: 1066

NAME: CLEAR CREEK DIST

ADDRESS: 4330 MARK DABLING BLVD
COLORADO SPRINGS, CO 80907

TANK INFORMATION

TANK ID:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:	INSTALLATION DATE:
28955	UNDERGROUND STORAGE TANK	GASOLINE	2000	CLOSED	NOT REPORTED
28956	UNDERGROUND STORAGE TANK	GASOLINE	4000	CLOSED	NOT REPORTED

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Aboveground Storage Tank Facilities (AST)

MAP ID# 3

Distance from Property: 0.01 mi. (53 ft.) SW

FACILITY INFORMATION

FACILITY ID: 13961

NAME: HIDDEN VALLEY TEXACO

ADDRESS: I-70 & EXIT 243
HIDDEN VALLEY EXIT

IDAHO SPRINGS, CO 80452

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=13961

OWNER INFORMATION

OWNER ID: 16737

NAME: HIDDEN VALLEY TEXACO

ADDRESS: HIDDEN VALLEY EXIT

IDAHO SPRINGS, CO 80452

TANK INFORMATION

TANK ID: TANK TYPE:

TANK PRODUCT:

TANK CAPACITY: TANK STATUS:

INSTALLATION DATE:

NR NOT REPORTED

NOT REPORTED

NOT REPORTED NOT REPORTED

NOT REPORTED

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Integrated Compliance Information System National Pollutant Discharge Elimination System (ICISNPDES)

MAP ID# 3

Distance from Property: 0.01 mi. (53 ft.) SW

FACILITY INFORMATION

GEOSearch ID: **COG073998INPDES**
NPDES ID: **COG073998** FACILITY #: **110045478158**
NAME: **IDAHO SPRINGS ROAD PROJECT**
PHYSICAL ADDRESS: **CENTRAL CITY PKWY & I-70**
IDAHO SPRINGS CO 80452
COUNTY: **CLEAR CREEK**
FACILITY TYPE: **NOT REPORTED**
IMPAIRED WATERS: **303(D) LISTED**

STANDARD INDUSTRIAL CLASSIFICATION

- NOT REPORTED -

PERMITS

FACILITY TYPE INDICATOR: **NON-POTABLE WATER**
PERMIT TYPE: **GENERAL PERMIT COVERED FACILITY**
MAJOR MINOR FACILITY: **MINOR DISCHARGER**
PERMIT STATUS: **TERMINATED**
WATER BODY: **CLEAR CREEK AND GROUNDWATER**
PERMIT NAME: **PUBLIC SERVICE CO OF COLORADO**
AGENCY TYPE: **STATE**
ORIGINAL ISSUE DATE: **3/2/2012**
ISSUE DATE: **3/2/2012**
ISSUING AGENCY: **NOT REPORTED**
EFFECTIVE DATE: **3/2/2012**
EXPIRATION DATE: **9/30/2013**
RETIREMENT DATE: **NOT REPORTED**
TERMINATION DATE: **9/1/2012**
PERMIT COMPLIANCE STATUS: **YES**
PERMIT SUBJECT TO DMR RUN: **YES**
REPORTABLE NONCOMPLIANCE TRACKING IS ON: **YES**

INSPECTIONS

- NO INSPECTIONS REPORTED -

HISTORIC COMPLIANCE

- NO HISTORIC COMPLIANCE REPORTED -

SINGLE EVENT VIOLATIONS

- NO SINGLE EVENT VIOLATIONS REPORTED -

FORMAL ENFORCEMENT ACTIONS

- NO FORMAL ENFORCEMENT ACTIONS REPORTED -

EFFLUENT VIOLATIONS

- NOT REPORTED -

EFFLUENT VIOLATIONS contd..

- NOT REPORTED -

EFFLUENT VIOLATIONS contd..

**Integrated Compliance Information System National Pollutant Discharge
Elimination System (ICISNPDES)**

- NOT REPORTED -

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Spills Listing (SPILLS)

MAP ID# 4

Distance from Property: 0.01 mi. (53 ft.) W

INCIDENT INFORMATION

CASE NUMBER: 2007-0945 NRC NUMBER: 855375
SPILL DATE: 11/23/07
SPILL LOCATION: I-70 WB EXIT 240
SPILL CITY/STATE/ZIP: IDAHO SPRINGS, CO NOT REPORTED
SPILL COUNTY: CLEAR CREEK

RESPONSIBLE PARTY

NAME: PAUL HARDRICK TRUCKING
ADDRESS: P.O. BOX 319
FLORENCE, CO 81226
COUNTY: NOT REPORTED
CONTACT: PAUL HARDRICK
PHONE: 719-252-9817

INCIDENT DETAILS

SOURCE: HIGHWAY/ROADWAY
SOURCE TYPE: MOTOR VEHICLE
MEDIUM: LAND
WATERWAY: NOT REPORTED
CAUSE: TRANSPORTATION ACCIDENT
MATERIAL TYPE: OIL

MATERIAL DESCRIPTION:	MATERIAL QUANTITY:	WATER QUANTITY:
DIESEL	60 GALLONS	NOT REPORTED

CAUSE INFORMATION:

AN SUV HIT A MEDIAN BARRIER, BOUNCED BACK INTO THE FLOW OF TRAFFIC AND HIT A SEMI TRUCK, RESULTING IN THE PUNCTURING OF THE SEMI TRUCK'S SADDLE TANK.

ACTION:

CUSTOM ENVIRONMENTAL WAS NOTIFIED FOR CLEANUP OF ALL IMPACTED AREAS. CSP HAZAMT DID APPLY ABSORBENT TO SPILLED DIESEL TO SECURE RELEASE. CLEANUP HAS BEEN COMPLETED.

RESPONSE COMMENTS:

NO WATERWAYS WERE IMPACTED.

COMMENTS:

CDOT-ANDY FLURKEY

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Spills Listing (SPILLS)

MAP ID# 4

Distance from Property: 0.01 mi. (53 ft.) W

INCIDENT INFORMATION

CASE NUMBER: 2011-0682

NRC NUMBER: NOT REPORTED

SPILL DATE: 09/19/11

SPILL LOCATION: I-70 AND HWY 103, AT THE EXIT TO MT. EVANS, WHERE CLEAR CREEK ALSO INTERSECTS

SPILL CITY/STATE/ZIP: NOT REPORTED, CO NOT REPORTED

SPILL COUNTY: CLEAR CREEK

RESPONSIBLE PARTY

NAME: XCEL ENERGY

ADDRESS: 1800 LARIMER ST.
DENVER, CO 80202

COUNTY: DENVER

CONTACT: REBECCA STURGEON (SEE BELOW OR EMAIL)

PHONE: 720-470-0312

INCIDENT DETAILS

SOURCE: OTHER

SOURCE TYPE: BORING OPERATION UNDER CREEK

MEDIUM: WATER AND LAND

WATERWAY: CLEAR CREEK

CAUSE: OTHER

MATERIAL TYPE: OTHER

MATERIAL DESCRIPTION:
BENTONITE SLURRY

MATERIAL QUANTITY:
1500 GALLONS

WATER QUANTITY:
1500 G

CAUSE INFORMATION:

FRACTURE IN ROCK OCCURRED UNDERNEATH CLEAR CREEK FRACTURED WHEN XCEL WAS BORING UNDERNEATH THE CREEK TO INSTALL A GAS LINE UNDER THE CREEK AND UNDER THE HIGHWAYS. CALLER EXPLAINED THAT THERE WAS PROBABLY A CRACK IN THIS ROCK, AND WHEN THE BORING PROCESS

ACTION:

THE BORE WAS STOPPED, AND THE HOLE IS BEING FILLED WITH FIBER MESH TO KEEP IT CLOSED. THEY WILL NEED TO COMPLETE THE BORE. CLEAR CREEK COUNTY DISPATCH WAS NOTIFIED, AND WE RECEIVED ONE OF THEIR CALLS TO NOTIFY DOWNSTREAM USERS.

RESPONSE COMMENTS:

NOT REPORTED

COMMENTS:

NOT REPORTED

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Spills Listing (SPILLS)

MAP ID# 4

Distance from Property: 0.01 mi. (53 ft.) W

INCIDENT INFORMATION

CASE NUMBER: 2002-1206 NRC NUMBER: NOT REPORTED

SPILL DATE: 09/25/02

SPILL LOCATION: I-70 AND COLORADO HWY 103

SPILL CITY/STATE/ZIP: IDAHO SPRINGS, CO NOT REPORTED

SPILL COUNTY: GILPIN

RESPONSIBLE PARTY

NAME: CHICAGO CREEK SANITATION DISTRICT

ADDRESS: P.O. BOX 634

IDAHO SPRINGS, CO 80452

COUNTY: NOT REPORTED

CONTACT: CRYSTAL MILLER

PHONE: 970-724-0817

INCIDENT DETAILS

SOURCE: PIPELINE

SOURCE TYPE: SANITARY SEWER/LIFT STATION

MEDIUM: WATER

WATERWAY: CLEAR CREEK

CAUSE: BLOCKAGE

MATERIAL TYPE: SANITARY SEWER OVERFLOW

MATERIAL DESCRIPTION:
SANITARY SEWER MATERIAL

MATERIAL QUANTITY:
100 GALLONS

WATER QUANTITY:
100 G

CAUSE INFORMATION:

ROCK IN SEWER LINE CAUSED BACK UP AND RELEASE OF MATERIAL. MATERIAL RELEASED FROM MANHOLE AND RAN INTO CLEAR CREEK.

ACTION:

BLOCKAGE CLEARED BY GILDNER PIPELINE MAINTENANCE.

RESPONSE COMMENTS:

NOT REPORTED

COMMENTS:

ADDRESS TO SEND ALL CORRESPONDENCE TO CHICAGO CREEK SANITATION IS: CRYSTAL MILLER P.O. BOX 556 K

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Emergency Response Notification System (ERNSCO)

MAP ID# 4

Distance from Property: 0.01 mi. (53 ft.) W

INCIDENT INFORMATION

GSID#: 1131030

NRC ID#: 1131030

INCIDENT LOCATION: NOT REPORTED

INCIDENT ADDRESS: MM-240 I-70
IDAHO SPRINGS, CO

INCIDENT COUNTY: CLEAR CREEK

INCIDENT DETAILS

INCIDENT DATE: 10/16/2015 6:00

INCIDENT CAUSE: UNKNOWN

INCIDENT TYPE: MOBILE

INCIDENT OCCURED/DISCOVERED: OCCURRED

INCIDENT DESCRIPTION: CALLER STATED A TRUCK RAN OFF THE ROAD STRIKING THE SIDE BARRIER PUNCTURING THE SADDLE TANKS RELEASING DIESEL TO THE ROADWAY.

RESPONSIBLE PARTY

RESPONSIBLE COMPANY: RIZZA AND SONS TRUCKING

ADDRESS: ADDRESS NOT REPORTED
THORTON CO

RESPONSIBLE COMPANY ORGANIZATION TYPE: PRIVATE ENTERPRISE

MATERIALS INVOLVED

CHRIS CODE: ODS

MATERIAL REACHED WATER: NO

WATER AMOUNT: UNKNOWN AMOUNT / NOT REPORTED

MATERIAL RELEASED/AMOUNT: OIL: DIESEL / 72 GALLON(S)

OTHER MATERIALS INVOLVED

- NO OTHER MATERIALS INVOLVED -

REMEDIAL ACTION

REMEDIAL ACTION: ABSORBENT WAS DEPLOYED. CONTRACTOR ONSITE FOR CLEAN UP.

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Emergency Response Notification System (ERNSCO)

MAP ID# 4

Distance from Property: 0.01 mi. (53 ft.) W

INCIDENT INFORMATION

GSID#: 855375

NRC ID#: 855375

INCIDENT LOCATION: EXIT 240 WESTBOUND ON I-70

INCIDENT ADDRESS: NOT REPORTED
IDAHO SPRINGS, CO

INCIDENT COUNTY: CLEAR CREEK

INCIDENT DETAILS

INCIDENT DATE: 11/23/2007 8:30:00 PM

INCIDENT CAUSE: TRANSPORT ACCIDENT

INCIDENT TYPE: MOBILE

INCIDENT OCCURED/DISCOVERED: OCCURRED

INCIDENT DESCRIPTION: THE CALLER IS REPORTING A RELEASE OF MATERIALS ONTO THE ASPHALT FROM A TRACTOR TRAILER SADDLE TANK DUE TO A TRANSPORT ACCIDENT.

RESPONSIBLE PARTY

RESPONSIBLE COMPANY: HARDRICK TRUCKING

ADDRESS: ADDRESS NOT REPORTED
FLORENCE CO 81226

RESPONSIBLE COMPANY ORGANIZATION TYPE: PRIVATE ENTERPRISE

MATERIALS INVOLVED

CHRIS CODE: ODS

MATERIAL REACHED WATER: NO

WATER AMOUNT: UNKNOWN AMOUNT / NOT REPORTED

MATERIAL RELEASED/AMOUNT: OIL: DIESEL / 60 GALLON(S)

OTHER MATERIALS INVOLVED

- NO OTHER MATERIALS INVOLVED -

REMEDIAL ACTION

REMEDIAL ACTION: ABSORBENTS APPLIED, CLEANUP COMPLETED

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Spills Listing (SPILLS)

MAP ID# 4

Distance from Property: 0.01 mi. (53 ft.) W

INCIDENT INFORMATION

CASE NUMBER: 2015-0662 NRC NUMBER: NOT REPORTED

SPILL DATE: 10/16/2015

SPILL LOCATION: INTERSTATE 70, MM 240 WESTBOUND

SPILL CITY/STATE/ZIP: IDAHO SPRINGS, CO NOT REPORTED

SPILL COUNTY: CLEAR CREEK

RESPONSIBLE PARTY

NAME: RIZZA & SONS TRUCKING

ADDRESS: 1961 RUTH DRIVE

THORNTON, CO 80229

COUNTY: NOT REPORTED

CONTACT: CHARLES RIZZA

PHONE: 720-245-7990

INCIDENT DETAILS

SOURCE: HIGHWAY/ROADWAY

SOURCE TYPE: MOTOR VEHICLE

MEDIUM: LAND

WATERWAY: NOT REPORTED

CAUSE: TRANSPORTATION ACCIDENT

MATERIAL TYPE: OIL

MATERIAL DESCRIPTION:
DIESEL

MATERIAL QUANTITY:
70 GALLONS

WATER QUANTITY:
NOT REPORTED

CAUSE INFORMATION:

TRUCK DRIVER SWERVED TO AVOID HITTING A DEER, AND HIT CONSTRUCTION BARRIERS, RUPTURING HIS SADDLE TANK AND OIL PANS. 70 GALLONS OF DIESEL WAS RELEASED TO THE SHOULDER OF THE ROAD. A MINIMAL AMOUNT OF OIL WAS RELEASED.

ACTION:

COLORADO STATE PATROL RESPONDED AND CONTAINED THE SPILL. CUSTOM ENVIRONMENTAL SERVICES WILL COMPLETE CLEAN UP ONCE PERMITS HAVE BEEN OBTAINED.

RESPONSE COMMENTS:

NOT REPORTED

COMMENTS:

CLEAR CREEK EH:

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Spills Listing (SPILLS)

MAP ID# 5

Distance from Property: 0.01 mi. (53 ft.) SW

INCIDENT INFORMATION

CASE NUMBER: 2007-0720

NRC NUMBER: NOT REPORTED

SPILL DATE: 08/20/07

SPILL LOCATION: PEDESTRIAN PATH UNDER I-70 AT 17TH AND MINER ST., BEHIND THE BUILDING.

SPILL CITY/STATE/ZIP: IDAHO SPRINGS, CO 80452

SPILL COUNTY: CLEAR CREEK

RESPONSIBLE PARTY

NAME: CITY OF IDAHO SPRINGS

ADDRESS: 200 W. COLORADO BLVD

IDAHO SPRINGS, CO 80452

COUNTY: CLEAR CREEK

CONTACT: CAROL MIKAL

PHONE: 303-567-0124

INCIDENT DETAILS

SOURCE: SEWER SYSTEM

SOURCE TYPE: CITY SEWER LINE

MEDIUM: WATER AND LAND

WATERWAY: CLEAR CREEK

CAUSE: OTHER

MATERIAL TYPE: RAW SEWAGE

MATERIAL DESCRIPTION:

RAW SEWAGE/MINUTE

MATERIAL QUANTITY:

30 GALLONS

WATER QUANTITY:

30 G

CAUSE INFORMATION:

PRESUMED TO BE A CLOGGED SEWER LINE

ACTION:

CITY OF IDAHO SPRINGS IS SANDBAGGING THE SEWAGE SPILL TO TRY TO KEEP IT AWAY FROM THE CREEK WHILE THEY SEWERJET THE LINE TO CLEAR OUT THE CLOG.// 8/21/07 8:40 AM, CALL FROM CAROL MIKAL THAT THE DOWNSTREAM NOTIFICATIONS HAD NOT GONE OUT. WHEN I TOOK HER R

RESPONSE COMMENTS:

SEWAGE IS COMING OUT OF A MANHOLE AND CROSSES A BIKE PATH BEFORE IT ENTERS CLEAR CREEK. THEY ESTIMATE THAT 30 GALLONS/MINUTE HAS BEEN GOING INTO THE CREEK.

COMMENTS:

THE REPORTING PARTY IS NEW TO THE REPORTING PROCESS AND WOULD LIKE GUIDANCE ON COMPLETING REPOR

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Underground Storage Tank Facilities (UST)

MAP ID# 6

Distance from Property: 0.01 mi. (53 ft.) SW

FACILITY INFORMATION

FACILITY ID: **10644**
NAME: **BLACKWELL OIL CO INC**
ADDRESS: **I-70 & DUMONT EXIT**
DUMONT, CO 80436

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=10644

OWNER INFORMATION

OWNER ID: **584**
NAME: **BLACKWELL OIL CO**
ADDRESS: **PO BOX 3333**
IDAHO SPRINGS, CO 80452

TANK INFORMATION

TANK ID:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:	INSTALLATION DATE:
28980	UNDERGROUND STORAGE TANK	1 - UNLEADED REGULAR (RUL)	10000	OPEN	NOT REPORTED
28981	UNDERGROUND STORAGE TANK	DIESEL #1	10000	OPEN	NOT REPORTED
28982	UNDERGROUND STORAGE TANK	DIESEL DYED #2	10000	OPEN	NOT REPORTED

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Aboveground Storage Tank Facilities (AST)

MAP ID# 6

Distance from Property: 0.01 mi. (53 ft.) SW

FACILITY INFORMATION

FACILITY ID: 10644
NAME: BLACKWELL OIL CO INC
ADDRESS: I-70 & DUMONT EXIT
DUMONT, CO 80436

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=10644

OWNER INFORMATION

OWNER ID: 584
NAME: BLACKWELL OIL CO
ADDRESS: PO BOX 3333
IDAHO SPRINGS, CO 80452

TANK INFORMATION

TANK ID:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:	INSTALLATION DATE:
43390	VEHICLE TANK METERS - TRUCK	8 - DIESEL/GAS (MULTI-COMP)	0	OPEN	NOT REPORTED

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Mineral Resource Data System (MRDS)

MAP ID# 6

Distance from Property: 0.03 mi. (158 ft.) SW

FACILITY INFORMATION

GEOSEARCH ID: 10239156

DEP ID: 10239156

MINE NAME: KATIE S.

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: COPPER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: COPPER

IMPORTANCE: TERTIARY

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: KATIE S.

STATUS: CURRENT

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Spills Listing (SPILLS)

MAP ID# 6

Distance from Property: 0.01 mi. (53 ft.) SW

INCIDENT INFORMATION

CASE NUMBER: **CO97-455** NRC NUMBER: **NOT REPORTED**

SPILL DATE: **09/29/97**

SPILL LOCATION: **DUMONT TRUCK STOP (I-70 & DUMONT)**

SPILL CITY/STATE/ZIP: **DUMONT, CO NOT REPORTED**

SPILL COUNTY: **CLEAR CREEK**

RESPONSIBLE PARTY

NAME: **CO DEPT OF TRANSPORTATION**

ADDRESS: **STREET NOT REPORTED**

CITY NOT REPORTED, NOT REPORTED

COUNTY: **NOT REPORTED**

CONTACT: **DAVE KYLE**

PHONE: **303-757-9243**

INCIDENT DETAILS

SOURCE: **HIGHWAY/ROADWAY**

SOURCE TYPE: **CDOT TRUCK**

MEDIUM: **LAND**

WATERWAY: **NOT REPORTED**

CAUSE: **F**

MATERIAL TYPE: **OIL**

MATERIAL DESCRIPTION:
HYDRAULIC FLUID OR OIL

MATERIAL QUANTITY:
40 GALLONS

WATER QUANTITY:
NOT REPORTED

CAUSE INFORMATION:

HYDRAULIC LINE SPRUNG A LEAK

ACTION:

COVERING SPILL W/FLOOR DRY & SAND. WILL DISPOSE @ LANDFILL W/IN NEXT COUPLE OF DAYS.

RESPONSE COMMENTS:

NOT REPORTED

COMMENTS:

NOT REPORTED

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Spills Listing (SPILLS)

MAP ID# 7

Distance from Property: 0.01 mi. (53 ft.) SW

INCIDENT INFORMATION

CASE NUMBER: 2012-0313

NRC NUMBER: NOT REPORTED

SPILL DATE: 05/07/12

SPILL LOCATION: OFFRAMP OF EB I-70 EXIT 233 (LAWSON EXIT) ON RIGHT HAND SIDE, JUST BEFORE STOP SIGN

SPILL CITY/STATE/ZIP: LAWSON, CO NOT REPORTED

SPILL COUNTY: CLEAR CREEK

RESPONSIBLE PARTY

NAME: NOT REPORTED

ADDRESS: STREET NOT REPORTED
CITY NOT REPORTED, CO

COUNTY: NOT REPORTED

CONTACT: NOT REPORTED

PHONE: NOT REPORTED

INCIDENT DETAILS

SOURCE: HIGHWAY/ROADWAY

SOURCE TYPE: MOTOR VEHICLE

MEDIUM: NOT REPORTED

WATERWAY: NOT REPORTED

CAUSE: DUMPING

MATERIAL TYPE: OIL

MATERIAL DESCRIPTION:
MOTOR OIL

MATERIAL QUANTITY:
10 QUARTS

WATER QUANTITY:
NOT REPORTED

CAUSE INFORMATION:

CALLER FROM CDOT REPORTS THAT THERE ARE TWO 5 QUART JUGS OF USED MOTOR OIL ON THE ROADSIDE. CALLER SUSPECTS THAT THEY ARE FROM A TRUCKER CHANGING THEIR OIL. THE JUGS ARE GREY AND SAY "MOBILE 1" ON THEM.

ACTION:

NOT REPORTED

RESPONSE COMMENTS:

NOT REPORTED

COMMENTS:

NOT REPORTED

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Emergency Response Notification System (ERNSCO)

MAP ID# 7

Distance from Property: 0.01 mi. (53 ft.) SW

INCIDENT INFORMATION

GSID#: 1097873

NRC ID#: 1097873

INCIDENT LOCATION: NOT REPORTED

INCIDENT ADDRESS: I-70 MM 233
DUMONT, CO

INCIDENT COUNTY: CLEAR CREEK

INCIDENT DETAILS

INCIDENT DATE: 10/9/2014 14:45

INCIDENT CAUSE: OTHER

INCIDENT TYPE: MOBILE

INCIDENT OCCURED/DISCOVERED: DISCOVERED

INCIDENT DESCRIPTION: CALLER IS REPORTING A RELEASE OF APPROXIMATELY 300 GALLONS OF DIESEL INTO CLEAR CREEK FROM A TRACTOR TRAILER DUE TO A MOTOR VEHICLE ACCIDENT.

RESPONSIBLE PARTY

RESPONSIBLE COMPANY: NOT REPORTED

ADDRESS: ADDRESS NOT REPORTED
CITY NOT REPORTED

RESPONSIBLE COMPANY ORGANIZATION TYPE: UNKNOWN

MATERIALS INVOLVED

CHRIS CODE: ODS

MATERIAL REACHED WATER: YES

WATER AMOUNT: 300 GALLON(S)

MATERIAL RELEASED/AMOUNT: OIL: DIESEL / 300 GALLON(S)

OTHER MATERIALS INVOLVED

- NO OTHER MATERIALS INVOLVED -

REMEDIAL ACTION

REMEDIAL ACTION: NONE YET, PERSONNEL ARE EN ROUTE.

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Spills Listing (SPILLS)

MAP ID# 7

Distance from Property: 0.01 mi. (53 ft.) SW

INCIDENT INFORMATION

CASE NUMBER: 2014-0637 NRC NUMBER: 1097873

SPILL DATE: 10/09/14

SPILL LOCATION: INTERSTATE 70, MM 233

SPILL CITY/STATE/ZIP: DUMONT, CO NOT REPORTED

SPILL COUNTY: CLEAR CREEK

RESPONSIBLE PARTY

NAME: SAFEWAY

ADDRESS: MORE LATER

CITY NOT REPORTED, CO

COUNTY: NOT REPORTED

CONTACT: MARK PYNE

PHONE: NOT REPORTED

INCIDENT DETAILS

SOURCE: HIGHWAY/ROADWAY

SOURCE TYPE: MOTOR VEHICLE

MEDIUM: WATER

WATERWAY: CLEAR CREEK

CAUSE: TRANSPORTATION ACCIDENT

MATERIAL TYPE: OIL

MATERIAL DESCRIPTION:
DIESEL

MATERIAL QUANTITY:
300 GALLONS

WATER QUANTITY:
300 G

CAUSE INFORMATION:

MOTOR VEHICLE ACCIDENT RESULTED IN RELEASE OF APPROX. 300 GALLONS OF DIESEL INTO CLEAR CREEK.

ACTION:

COLORADO STATE PATOL AND CLEAR CREEK FIRE DEPT. WERE RESPONDING.

RESPONSE COMMENTS:

NOT REPORTED

COMMENTS:

CLEAR CREEK COUNTY EH: KATHLEEN KREBS, C DICKEN, W TROGDON

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Colorado Discharge Permit System Facilities (CDPS)

[MAP ID# 8](#)

Distance from Property: 0.01 mi. (53 ft.) N

SITE INFORMATION

PERMIT NUMBER: **COR03M044**

SITE NAME: **CLEAR CREEK COUNTY 2014 PAVEMENT REPLACEMENT PROGRAM**

ADDRESS: **FALL RIVER RD AT I 70 AND MEADOW VIEW DR**

IDAHO SPRINGS, CO 80452

PERMIT TYPE: **COR030000-STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES**

PERMITTEE: **AGGREGATE INDUSTRIES WCR INC**

PERMIT EFFECTIVE: **4/15/2014**

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Emergency Response Notification System (ERNSCO)

MAP ID# 9

Distance from Property: 0.01 mi. (53 ft.) W

INCIDENT INFORMATION

GSID#: 775730

NRC ID#: 775730

INCIDENT LOCATION: INTERSTATE 70 WEST BOUND AT MILE MARKER 242

INCIDENT ADDRESS: NOT REPORTED
IDAHO SPRINGS, CO

INCIDENT COUNTY: CLEAR CREEK

INCIDENT DETAILS

INCIDENT DATE: 10/11/2005 1:00:00 AM

INCIDENT CAUSE: TRANSPORT ACCIDENT

INCIDENT TYPE: MOBILE

INCIDENT OCCURED/DISCOVERED: OCCURRED

INCIDENT DESCRIPTION: CALLER STATED THERE WAS A RELEASE OF MATERIALS FROM THE SADDLE TANK OF A TRACTOR TRAILER DUE TO A TRANSPORT ACCIDENT.

RESPONSIBLE PARTY

RESPONSIBLE COMPANY: AMERICAN FURNITURE WAREHOUSE

ADDRESS: ADDRESS NOT REPORTED
THORNTON CO

RESPONSIBLE COMPANY ORGANIZATION TYPE: PRIVATE ENTERPRISE

MATERIALS INVOLVED

CHRIS CODE: ODS

MATERIAL REACHED WATER: YES

WATER AMOUNT: 40 GALLON(S)

MATERIAL RELEASED/AMOUNT: OIL: DIESEL / 80 GALLON(S)

OTHER MATERIALS INVOLVED

- NO OTHER MATERIALS INVOLVED -

REMEDIAL ACTION

REMEDIAL ACTION: BOOMS APPLIED, ABSORBENTS APPLIED, CONTRACTOR HAS BEEN HIRED

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Emergency Response Notification System (ERNSCO)

MAP ID# 9

Distance from Property: 0.01 mi. (53 ft.) W

INCIDENT INFORMATION

GSID#: 916968

NRC ID#: 916968

INCIDENT LOCATION: MILE MARKER 242 ON INTERSTATE 70

INCIDENT ADDRESS: NOT REPORTED
IDAHO SPRINGS, CO

INCIDENT COUNTY: CLEAR CREEK

INCIDENT DETAILS

INCIDENT DATE: 9/4/2009 9:01:00 PM

INCIDENT CAUSE: TRANSPORT ACCIDENT

INCIDENT TYPE: MOBILE

INCIDENT OCCURED/DISCOVERED: OCCURRED

INCIDENT DESCRIPTION: CALLER IS REPORTING A SPILL DIESEL FUEL FROM A TRACTOR TRAILER DUE TO A ACCIDENT.
CALLER STATED THE TRACTOR TRAILER WENT DOWN AN EMBANKMENT. CALLER HAD VERY LIMITED INFORMATION.

RESPONSIBLE PARTY

RESPONSIBLE COMPANY: WESTERN EXPRESS

ADDRESS: ADDRESS NOT REPORTED
CITY NOT REPORTED

RESPONSIBLE COMPANY ORGANIZATION TYPE: PRIVATE ENTERPRISE

MATERIALS INVOLVED

CHRIS CODE: OOD

MATERIAL REACHED WATER: YES

WATER AMOUNT: UNKNOWN AMOUNT / NOT REPORTED

MATERIAL RELEASED/AMOUNT: OIL, FUEL: NO. 1-D / UNKNOWN AMOUNT

OTHER MATERIALS INVOLVED

- NO OTHER MATERIALS INVOLVED -

REMEDIAL ACTION

REMEDIAL ACTION: CALLER STATED EMERGENCY RESPONSE IS ON THE SCENE.

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Emergency Response Notification System (ERNSCO)

MAP ID# 9

Distance from Property: 0.01 mi. (53 ft.) W

INCIDENT INFORMATION

GSID#: 916971

NRC ID#: 916971

INCIDENT LOCATION: INTERSTATE 70

INCIDENT ADDRESS: MILE MARKER 242
IDAHO SPRINGS, CO

INCIDENT COUNTY: CLEAR CREEK

INCIDENT DETAILS

INCIDENT DATE: 9/4/2009 11:20:00 AM

INCIDENT CAUSE: TRANSPORT ACCIDENT

INCIDENT TYPE: MOBILE

INCIDENT OCCURED/DISCOVERED: OCCURRED

INCIDENT DESCRIPTION: ///PLEASE REFER TO REPORT # 916968/// CALLER IS REPORTING A SPILL OF DIESEL FUEL FROM TRACTOR TRAILER TRUCK'S FUEL TANK DUE TO THE TRACTOR TRAILER RUNNING OFF THE ROAD AND INTO A CREEK.

RESPONSIBLE PARTY

RESPONSIBLE COMPANY: WESTERN EXPRESS

ADDRESS: ADDRESS NOT REPORTED
NASHVILLE TN 37209

RESPONSIBLE COMPANY ORGANIZATION TYPE: PRIVATE ENTERPRISE

MATERIALS INVOLVED

CHRIS CODE: OOD

MATERIAL REACHED WATER: UNKNOWN

WATER AMOUNT: UNKNOWN AMOUNT / NOT REPORTED

MATERIAL RELEASED/AMOUNT: OIL, FUEL: NO. 1-D / 150 GALLON(S)

OTHER MATERIALS INVOLVED

- NO OTHER MATERIALS INVOLVED -

REMEDIAL ACTION

REMEDIAL ACTION: CALLER STATED LOCAL FIRE DEPARTMENT IS TRYING TO DO CONTAINMENT. CALLER STATED A CONTRACTOR HAS BEEN HIRED AND IS IN ROUTE TO THE LOCATION.

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Emergency Response Notification System (ERNSCO)

MAP ID# 10

Distance from Property: 0.01 mi. (53 ft.) SW

INCIDENT INFORMATION

GSID#: 792447

NRC ID#: 792447

INCIDENT LOCATION: I-70 / MILE POST 234

INCIDENT ADDRESS: NOT REPORTED
DUMONT, CO

INCIDENT COUNTY: CLEAR CREEK

INCIDENT DETAILS

INCIDENT DATE: 3/29/2006 12:54:00 PM

INCIDENT CAUSE: EQUIPMENT FAILURE

INCIDENT TYPE: MOBILE

INCIDENT OCCURED/DISCOVERED: OCCURRED

INCIDENT DESCRIPTION: THE CALLER STATED THAT A TRACTOR TRAILER COMBINATION HAD A TANK FAILURE WHEN IT WAS AT THE PORT OF ENTRY IN THE PROCESS OF BEING INSPECTED. ONE OF THE INSPECTORS NOTICED THE LEAKAGE.

RESPONSIBLE PARTY

RESPONSIBLE COMPANY: CALFRAC WELL SERVICES

ADDRESS: ADDRESS NOT REPORTED
PLATTEVILLE CO 80651

RESPONSIBLE COMPANY ORGANIZATION TYPE: PRIVATE ENTERPRISE

MATERIALS INVOLVED

CHRIS CODE: HCL

MATERIAL REACHED WATER: NO

WATER AMOUNT: UNKNOWN AMOUNT / NOT REPORTED

MATERIAL RELEASED/AMOUNT: HYDROCHLORIC ACID / 15 GALLON(S)

OTHER MATERIALS INVOLVED

- NO OTHER MATERIALS INVOLVED -

REMEDIAL ACTION

REMEDIAL ACTION: INITIAL RESPONSE WAS SECUREMENT OF THE AREA / ATTEMPTED TO STOP THE LEAK / OFFLOADED THE TRUCK

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Mineral Resource Data System (MRDS)

[MAP ID# 11](#)

Distance from Property: 0.02 mi. (106 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10238723

DEP ID: 10238723

MINE NAME: BOREALIS

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: BOREALIS

STATUS: CURRENT

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Emergency Response Notification System (ERNSCO)

MAP ID# 11

Distance from Property: 0.01 mi. (53 ft.) SW

INCIDENT INFORMATION

GSID#: 720068

NRC ID#: 720068

INCIDENT LOCATION: INTERSTATE 70 MILE MARKER 239

INCIDENT ADDRESS: NOT REPORTED
IDAHO SPRINGS, CO

INCIDENT COUNTY: CLEAR CREEK

INCIDENT DETAILS

INCIDENT DATE: 4/25/2004 9:00:00 PM

INCIDENT CAUSE: TRANSPORT ACCIDENT

INCIDENT TYPE: MOBILE

INCIDENT OCCURED/DISCOVERED: OCCURRED

INCIDENT DESCRIPTION: A STRAIGHT TRUCK OVERTURNED CAUSING THE SADDLE TANK TO RUPTURE AND SPILL DIESEL ONTO THE ASPHALT.

RESPONSIBLE PARTY

RESPONSIBLE COMPANY: NOT REPORTED

ADDRESS: ADDRESS NOT REPORTED
GRANBY CO

RESPONSIBLE COMPANY ORGANIZATION TYPE: PRIVATE CITIZEN

MATERIALS INVOLVED

CHRIS CODE: ODS

MATERIAL REACHED WATER: NO

WATER AMOUNT: UNKNOWN AMOUNT / NOT REPORTED

MATERIAL RELEASED/AMOUNT: OIL: DIESEL / 80 GALLON(S)

OTHER MATERIALS INVOLVED

- NO OTHER MATERIALS INVOLVED -

REMEDIAL ACTION

REMEDIAL ACTION: CONTRACTOR HAS BEEN HIRED

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Hazardous Materials Incident Reporting System (HMIRSR08)

MAP ID# 12

Distance from Property: 0.01 mi. (53 ft.) SW

INCIDENT INFORMATION

REPORT #: I-2002010020

DATE: 11/9/2001

INCIDENT LOCATION:

I-70 WB MM 235

DUMONT, CO

CLEAR CREEK

CARRIER INFORMATION

NAME: IOWA TANKLINES INC

ADDRESS: 7722 F STREET

OMAHA, NE 68127

MODE OF TRANSPORTATION: HIGHWAY

TRANSPORTATION PHASE: IN TRANSIT

COMMODITY DETAILS

IDENTIFICATION NUMBER: UN1203

COMMODITY SHIPPING NAME: GASOLINE

TRADE NAME: GASOLINE

QUANTITY RELEASED: 8201 LIQUID - GALLON

PACKAGING: CARGO TANK MOTOR VEHICLE (CTMV)

FAILURE DESCRIPTION

WHAT FAILED: 103; BASIC MATERIAL;

HOW FAILED: 303; - BURST OR RUPTURED;

FAILURE CAUSE DESCRIPTION:

531; 537 - ROLLOVER ACCIDENT; VEHICULAR CRASH OR ACCIDENT DAMAGE

DESCRIPTION OF EVENTS:

DRIVER HEADING WEST ON I-70 TIRES SLIPPED OFF ON SOFT SHOULDER OVER CORRECTED AND ROLLED TRACTOR TRAILER GASOLINE LEAKED FROM TRAILER. FIRE DEPARTMENT AND HAZMAT UNITS RESPONDED. A CLEAN UP CONTRACTOR WAS ON THE SCENE.

RECOMMENDATIONS/ACTIONS TAKEN:

NO ACTION OR RECOMMENDATION REPORTED

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Mineral Resource Data System (MRDS)

MAP ID# 13

Distance from Property: 0.01 mi. (53 ft.) W

FACILITY INFORMATION

GEOSEARCH ID: 10263678

DEP ID: 10263678

MINE NAME: MINE DUMPS

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: UNKNOWN

COMMODITY DETAILS

COMMODITY: URANIUM

COMMODITY TYPE: METALLIC

COMMODITY GROUP: URANIUM

IMPORTANCE: TERTIARY

MATERIAL DETAILS

MATERIAL: GALENA

ORE OR GANGUE: UNKNOWN

MATERIAL: PYRITE

ORE OR GANGUE: UNKNOWN

MATERIAL: QUARTZ

ORE OR GANGUE: UNKNOWN

MATERIAL: SPHALERITE

ORE OR GANGUE: UNKNOWN

MATERIAL: URANINITE

ORE OR GANGUE: UNKNOWN

NAME DETAILS

SITE NAME: MINE DUMPS

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 14

Distance from Property: 0.01 mi. (53 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10239320

DEP ID: 10239320

MINE NAME: EULALIE TUN

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: EULALIE TUN

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 15

Distance from Property: 0.01 mi. (53 ft.) NW

FACILITY INFORMATION

GEOSEARCH ID: 10263754

DEP ID: 10263754

MINE NAME: SALISBURY

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: LEAD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: LEAD

IMPORTANCE: SECONDARY

COMMODITY: ZINC

COMMODITY TYPE: METALLIC

COMMODITY GROUP: ZINC

IMPORTANCE: SECONDARY

COMMODITY: COPPER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: COPPER

IMPORTANCE: SECONDARY

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS

MATERIAL: PYRITE

ORE OR GANGUE: ORE

MATERIAL: CHALCOPYRITE

ORE OR GANGUE: ORE

MATERIAL: QUARTZ

ORE OR GANGUE: GANGUE

Mineral Resource Data System (MRDS)

MATERIAL: **TENNANTITE**

ORE OR GANGUE: **ORE**

MATERIAL: **GALENA**

ORE OR GANGUE: **TRACE**

MATERIAL: **SPHALERITE**

ORE OR GANGUE: **TRACE**

NAME DETAILS

SITE NAME: **SALISBURY**

STATUS: **CURRENT**

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Mineral Resource Data System (MRDS)

MAP ID# 16

Distance from Property: 0.01 mi. (53 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10239280

DEP ID: 10239280

MINE NAME: MONTE CRISTO

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: MONTE CRISTO

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 17

Distance from Property: 0.01 mi. (53 ft.) NW

FACILITY INFORMATION

GEOSEARCH ID: 10239393

DEP ID: 10239393

MINE NAME: CRESCENT CITY

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: CRESCENT CITY

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 18

Distance from Property: 0.02 mi. (106 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10167042

DEP ID: 10167042

MINE NAME: **BIG FIVE TUNNEL**

ADDRESS: **CLEAR CREEK COUNTY**

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: **PAST PRODUCER**

COMMODITY DETAILS

COMMODITY: **GOLD**

COMMODITY TYPE: **METALLIC**

COMMODITY GROUP: **GOLD**

IMPORTANCE: **PRIMARY**

COMMODITY: **SILVER**

COMMODITY TYPE: **METALLIC**

COMMODITY GROUP: **SILVER**

IMPORTANCE: **PRIMARY**

COMMODITY: **LEAD**

COMMODITY TYPE: **METALLIC**

COMMODITY GROUP: **LEAD**

IMPORTANCE: **SECONDARY**

COMMODITY: **ZINC**

COMMODITY TYPE: **METALLIC**

COMMODITY GROUP: **ZINC**

IMPORTANCE: **SECONDARY**

COMMODITY: **COPPER**

COMMODITY TYPE: **METALLIC**

COMMODITY GROUP: **COPPER**

IMPORTANCE: **SECONDARY**

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: **BIG FIVE TUNNEL**

STATUS: **CURRENT**

SITE NAME: **CENTRAL TUNNEL**

STATUS: **PREVIOUS**

SITE NAME: **BIG FIVE - BELMAN**

STATUS: **PREVIOUS**

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Mineral Resource Data System (MRDS)

MAP ID# 18

Distance from Property: 0.02 mi. (106 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10107819

DEP ID: 10107819

MINE NAME: **BIG FIVE - BELMAN**

ADDRESS: **CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452**

DEVELOPMENT STATUS: **PRODUCER**

COMMODITY DETAILS

COMMODITY: **GOLD**

COMMODITY TYPE: **METALLIC**

COMMODITY GROUP: **GOLD**

IMPORTANCE: **PRIMARY**

COMMODITY: **SILVER**

COMMODITY TYPE: **METALLIC**

COMMODITY GROUP: **SILVER**

IMPORTANCE: **PRIMARY**

COMMODITY: **LEAD**

COMMODITY TYPE: **METALLIC**

COMMODITY GROUP: **LEAD**

IMPORTANCE: **PRIMARY**

COMMODITY: **ZINC**

COMMODITY TYPE: **METALLIC**

COMMODITY GROUP: **ZINC**

IMPORTANCE: **PRIMARY**

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: **BIG FIVE - BELMAN**

STATUS: **CURRENT**

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Mineral Resource Data System (MRDS)

MAP ID# 19

Distance from Property: 0.02 mi. (106 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10166536

DEP ID: 10166536

MINE NAME: HOOSAC

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: HOOSAC

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 20

Distance from Property: 0.02 mi. (106 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10239475

DEP ID: 10239475

MINE NAME: NEW BEDFORD

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: NEW BEDFORD

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 21

Distance from Property: 0.02 mi. (106 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10239390

DEP ID: 10239390

MINE NAME: MAUDE MONROE

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

COMMODITY: LEAD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: LEAD

IMPORTANCE: SECONDARY

COMMODITY: COPPER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: COPPER

IMPORTANCE: SECONDARY

COMMODITY: ZINC

COMMODITY TYPE: METALLIC

COMMODITY GROUP: ZINC

IMPORTANCE: SECONDARY

MATERIAL DETAILS

MATERIAL: PYRITE

ORE OR GANGUE: ORE

MATERIAL: SPHALERITE

ORE OR GANGUE: ORE

MATERIAL: GALENA

ORE OR GANGUE: ORE

Mineral Resource Data System (MRDS)

MATERIAL: **QUARTZ**
ORE OR GANGUE: **GANGUE**

MATERIAL: **TENNANTITE**
ORE OR GANGUE: **TRACE**

MATERIAL: **CHALCOPYRITE**
ORE OR GANGUE: **TRACE**

NAME DETAILS

SITE NAME: **MAUDE MONROE**
STATUS: **CURRENT**

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Mineral Resource Data System (MRDS)

MAP ID# 22

Distance from Property: 0.02 mi. (106 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10118376

DEP ID: 10118376

MINE NAME: COLUMBIA

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: COLUMBIA

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 23

Distance from Property: 0.02 mi. (106 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10190261

DEP ID: 10190261

MINE NAME: PENNSYLVANIA

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS

MATERIAL: PYRITE

ORE OR GANGUE: ORE

MATERIAL: QUARTZ

ORE OR GANGUE: GANGUE

NAME DETAILS

SITE NAME: PENNSYLVANIA

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 24

Distance from Property: 0.02 mi. (106 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10239149

DEP ID: 10239149

MINE NAME: OLIVE

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: OLIVE

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 24

Distance from Property: 0.03 mi. (158 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10264012

DEP ID: 10264012

MINE NAME: ESSEX

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: ESSEX

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 25

Distance from Property: 0.02 mi. (106 ft.) NW

FACILITY INFORMATION

GEOSEARCH ID: 10166368

DEP ID: 10166368

MINE NAME: TOM MOORE

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: LEAD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: LEAD

IMPORTANCE: TERTIARY

COMMODITY: COPPER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: COPPER

IMPORTANCE: SECONDARY

COMMODITY: ZINC

COMMODITY TYPE: METALLIC

COMMODITY GROUP: ZINC

IMPORTANCE: SECONDARY

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: TOM MOORE

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 26

Distance from Property: 0.02 mi. (106 ft.) SW

FACILITY INFORMATION

GEOSEARCH ID: 10166434

DEP ID: 10166434

MINE NAME: HIAWATHA TUNNEL

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: HIAWATHA TUNNEL

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 27

Distance from Property: 0.02 mi. (106 ft.) NW

FACILITY INFORMATION

GEOSEARCH ID: 10117245

DEP ID: 10117245

MINE NAME: MAB

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

MATERIAL DETAILS

MATERIAL: SPHALERITE

ORE OR GANGUE: TRACE

MATERIAL: GALENA

ORE OR GANGUE: TRACE

MATERIAL: CHALCOPYRITE

ORE OR GANGUE: TRACE

MATERIAL: PYRITE

ORE OR GANGUE: ORE

NAME DETAILS

SITE NAME: MAB

STATUS: CURRENT

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Spills Listing (SPILLS)

MAP ID# 28

Distance from Property: 0.03 mi. (158 ft.) NW

INCIDENT INFORMATION

CASE NUMBER: 2016-0050 NRC NUMBER: NOT REPORTED

SPILL DATE: 1/30/2016

SPILL LOCATION: 15 IDAHO ST.

SPILL CITY/STATE/ZIP: IDAHO SPRINGS, CO 80452

SPILL COUNTY: CLEAR CREEK

RESPONSIBLE PARTY

NAME: ARGO TUNNEL WATER TREATMENT FACILITY

ADDRESS: 2330 RIVERSIDE DR.

IDAHO SPRINGS, CO 80452

COUNTY: NOT REPORTED

CONTACT: JIM GRIFFITH

PHONE: 303-305-9749

INCIDENT DETAILS

SOURCE: OTHER

SOURCE TYPE: OLD MINE

MEDIUM: WATER AND LAND

WATERWAY: CLEAR CREEK

CAUSE: FAILURE EQUIPMENT

MATERIAL TYPE: OTHER

MATERIAL DESCRIPTION:
MINE DRAINAGE

MATERIAL QUANTITY:
NOT REPORTED

WATER QUANTITY:
NOT REPORTED

CAUSE INFORMATION:

POWER OUTAGE RESULTED IN FAILURE OF THE PUMP THAT PUMPS DRAINAGE FROM THE BIG 5 TUNNEL AREA TO THE ARGO TUNNEL WATER TREATMENT FACILITY. THE DRAINAGE THEN BYPASSED THE PUMP AND THE WATER TREATMENT FACILITY AND ENTERED CLEAR CREEK AT A RATE OF 15-20 GALLONS/MINUTE FOR 23 HOURS.

ACTION:

CALLER NOTIFIED XCEL ENERGY AND THEY GOT THE POWER RESTORED BY 5 PM ON 1/31/16. CALLER HAS BEEN WORKING WITH MARY BOARDMAN IN HMWMD WHO OVERSEES THIS SITE.

RESPONSE COMMENTS:

NOT REPORTED

COMMENTS:

CLEAR CREEK COUNTY EH: CINDY DICKEN, CHARLOTTE HAMPSON, KATHLEEN KREBS

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Spills Listing (SPILLS)

MAP ID# 29

Distance from Property: 0.06 mi. (317 ft.) S

INCIDENT INFORMATION

CASE NUMBER: 2005-399 NRC NUMBER: NOT REPORTED

SPILL DATE: 05/13/05

SPILL LOCATION: IDAHO SPRINGS WASTEWATER TREATMENT PLANT

SPILL CITY/STATE/ZIP: IDAHO SPRINGS, CO NOT REPORTED

SPILL COUNTY: CLEAR CREEK

RESPONSIBLE PARTY

NAME: ECO RESOURCES, INC.

ADDRESS: 6050 W. 54TH AVENUE
ARVADA, CO 80002

COUNTY: NOT REPORTED

CONTACT: TERRY MIERS

PHONE: 303-307-3200

INCIDENT DETAILS

SOURCE: FIXED FACILITY

SOURCE TYPE: UPSET WASTEWATER TREATMENT PLANT

MEDIUM: WATER AND LAND

WATERWAY: CLEAR CREEK

CAUSE: FAILURE EQUIPMENT

MATERIAL TYPE: SANITARY SEWER OVERFLOW

MATERIAL DESCRIPTION:
EFFLUENT

MATERIAL QUANTITY:
6000 GALLONS

WATER QUANTITY:
6000 G

CAUSE INFORMATION:

FLOW METER BURST DUE TO HIGH WATER PRESSURE. CHLORINE ROOM FILLED WITH A COUPLE FEET OF WATER.

ACTION:

UPON PLANT FILLING, MANUAL DECANT WAS ENACTED. DURING FIRST DISCHARGE A VISUAL IMPACT FROM CHLORINE WAS NOTED IN CREEK NO FURTHER IMPACT NOTED DURING ADDITIONAL MANUAL DECANTS. REPAIRS BEING MADE TO VALVE, NOTED DECANTERS MAY NOT BE SEALING PROPERLY.

RESPONSE COMMENTS:

NOT REPORTED

COMMENTS:

OTHER PROBLEMS NOTED: THE BYPASS VALVE WAS NOT CLOSING AND WAS DEADHEADED. THE MAIN VALVE TO THE PLA

ADDITIONAL COMMENTS:

PER

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Spills Listing (SPILLS)

MAP ID# 29

Distance from Property: 0.06 mi. (317 ft.) S

INCIDENT INFORMATION

CASE NUMBER: 2003-251 NRC NUMBER: NOT REPORTED

SPILL DATE: 05/15/03

SPILL LOCATION: 980 CLEAR CREEK COUNTY RD. 314-WASTEWATER PLANT

SPILL CITY/STATE/ZIP: IDAHO SPRINGS, CO NOT REPORTED

SPILL COUNTY: CLEAR CREEK

RESPONSIBLE PARTY

NAME: CITY OF IDAHO SPRINGS PUBLIC WORKS

ADDRESS: 200 W. COLORADO BLVD.
IDAHO SPRINGS, CO 80452

COUNTY: NOT REPORTED

CONTACT: RANDY RASMUSSEN

PHONE: 303-567-2400

INCIDENT DETAILS

SOURCE: FIXED FACILITY

SOURCE TYPE: SANITARY SEWER/LIFT STATION

MEDIUM: LAND

WATERWAY: NOT REPORTED

CAUSE: ERROR OPERATOR

MATERIAL TYPE: SANITARY SEWER OVERFLOW

MATERIAL DESCRIPTION:
SEWAGE

MATERIAL QUANTITY:
20 GALLONS

WATER QUANTITY:
NOT REPORTED

CAUSE INFORMATION:

AN OVERFLOW OCCURRED WHEN SWITCH ON A PUMP AT FACILITY WAS LEFT IN "ON" POSIT

ACTION:

A BURM WAS CONSTRUCTED TO PREVENT MIGRATION OF RELEASED MATERIAL OFF SITE, RELEASED RAW SEWAGE WILL BE PUT INTO SLUDGE CANISTERS FOR DISPOSAL.

RESPONSE COMMENTS:

NOT REPORTED

COMMENTS:

NO WATERWAYS WERE IMPACTED DURING THIS RELEASE.

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Spills Listing (SPILLS)

MAP ID# 29

Distance from Property: 0.06 mi. (317 ft.) S

INCIDENT INFORMATION

CASE NUMBER: **CO99-188** NRC NUMBER: **NOT REPORTED**

SPILL DATE: **05/29/99**

SPILL LOCATION: **IDAHO SPRINGS WASTE WATER TREATMENT PLANT**

SPILL CITY/STATE/ZIP: **IDAHO SPRINGS, CO NOT REPORTED**

SPILL COUNTY: **CLEAR CREEK**

RESPONSIBLE PARTY

NAME: **IDAHO SPRINGS WASTE WATER PLNT**

ADDRESS: **STREET NOT REPORTED**

IDAHO SPRINGS, CO

COUNTY: **CLEAR CREEK**

CONTACT: **ROBERT DEY**

PHONE: **303-944-8294**

INCIDENT DETAILS

SOURCE: **FIXED FACILITY**

SOURCE TYPE: **TREATMENT PLANT**

MEDIUM: **WATER**

WATERWAY: **CLEAR CREEK**

CAUSE: **F**

MATERIAL TYPE: **SANITARY SEWER OVERFLOW**

MATERIAL DESCRIPTION:
SEWAGE, RAW

MATERIAL QUANTITY:
NOT REPORTED

WATER QUANTITY:
NOT REPORTED

CAUSE INFORMATION:

POWER FAILURE

ACTION:

5/29/99 2225 HRS-ROBERT DEY CALLED TO REPORT THAT POWER HAD BEEN RESTORED TO THE PLANT AS OF 2130 HRS & THE OVERFLOW WAS UNDER CONTROL.

RESPONSE COMMENTS:

NOT REPORTED

COMMENTS:

DUE TO A POWER OUTAGE, PUMPS AT THE PLANT FAILED TO OPERATE ALLOWING RAW SEWAGE TO OVERFLOW INTO CLE

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Spills Listing (SPILLS)

MAP ID# 29

Distance from Property: 0.06 mi. (317 ft.) S

INCIDENT INFORMATION

CASE NUMBER: **CO92-159**

NRC NUMBER: **NONE**

SPILL DATE: **06/30/92**

SPILL LOCATION: **IDAHO SPRINGS SEWAGE TRMT FAC-1/4MI ETOWN**

SPILL CITY/STATE/ZIP: **IDAHO SPRINGS, CO NOT REPORTED**

SPILL COUNTY: **GILPIN**

RESPONSIBLE PARTY

NAME: **IDAHO SPRINGS CITY HALL**

ADDRESS: **IDAHO SPRINGS SEWAGE TRMT FAC
IDAHO SPRINGS, CO**

COUNTY: **GILPIN**

CONTACT: **NOT REPORTED**

PHONE: **303-573-1510**

INCIDENT DETAILS

SOURCE: **FIXED FACILITY**

SOURCE TYPE: **SEWAGE TREATMENT PLANT**

MEDIUM: **WATER AND LAND**

WATERWAY: **CLEAR CREEK**

CAUSE: **FE**

MATERIAL TYPE: **SANITARY SEWER OVERFLOW**

MATERIAL DESCRIPTION:
SEWAGE EFFLUENT

MATERIAL QUANTITY:
1900 GALLONS

WATER QUANTITY:
NOT REPORTED

CAUSE INFORMATION:

UNKNOWN

ACTION:

NOTIFIED WQCD

RESPONSE COMMENTS:

REFERRED TO WQCD

COMMENTS:

NOT REPORTED

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Spills Listing (SPILLS)

MAP ID# 29

Distance from Property: 0.06 mi. (317 ft.) S

INCIDENT INFORMATION

CASE NUMBER: 2012-0591

NRC NUMBER: NOT REPORTED

SPILL DATE: 08/23/12

SPILL LOCATION: IDAHO SPRINGS WASTEWATER TREATMENT PLANT, 980 COUNTY RD. 314

SPILL CITY/STATE/ZIP: IDAHO SPRINGS, CO 80452

SPILL COUNTY: CLEAR CREEK

RESPONSIBLE PARTY

NAME: IDAHO SPRINGS WASTE WATER TREATMENT PLAN

ADDRESS: 980 COUNTY RD 314

IDAHO SPRINGS, CO 80452

COUNTY: CLEAR CREEK

CONTACT: WAYNE RAMEY

PHONE: 303-921-0129

INCIDENT DETAILS

SOURCE: FIXED FACILITY

SOURCE TYPE: SANITARY SEWER/LIFT STATION

MEDIUM: WATER AND LAND

WATERWAY: CLEAR CREEK

CAUSE: FAILURE EQUIPMENT

MATERIAL TYPE: SANITARY SEWER OVERFLOW

MATERIAL DESCRIPTION:
UNTREATED WASTE WATER

MATERIAL QUANTITY:
80000 GALLONS

WATER QUANTITY:
80000 G

CAUSE INFORMATION:

THE PROGRAMMABLE LOGIC CONTROLLER (PLC) WENT DOWN. EFFLUENT PUMPS SHUT DOWN. THE WET WELL WOULDNT PUMP. THE OVERFLOW FROM WET WELL WENT INTO THE EQUALIZATION TANK AND FILLED IT UP. THE WATER WENT DIRECTLY INTO THE CHLORINE CONTACT CHAMBER, BYPASSING

ACTION:

AT 0730 BYPASS STOPPED. MAKING DOWNSTREAM NOTIFICATIONS AT TIME OF REPORT.

RESPONSE COMMENTS:

NOT REPORTED

COMMENTS:

NOT REPORTED

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Spills Listing (SPILLS)

MAP ID# 29

Distance from Property: 0.03 mi. (158 ft.) S

INCIDENT INFORMATION

CASE NUMBER: 2013-0405

NRC NUMBER: NOT REPORTED

SPILL DATE: 06/14/13

SPILL LOCATION: CLEAR CREEK IN IDAHO SPRINGS, BY THE WASTEWATER TREATMENT PLANT INTAKE

SPILL CITY/STATE/ZIP: IDAHO SPRINGS, CO NOT REPORTED

SPILL COUNTY: CLEAR CREEK

RESPONSIBLE PARTY

NAME: DIXIE MINE

ADDRESS: STREET NOT REPORTED

IDAHO SPRINGS, CO

COUNTY: CLEAR CREEK

CONTACT: NOT REPORTED

PHONE: NOT REPORTED

INCIDENT DETAILS

SOURCE: OTHER

SOURCE TYPE: PROBABLE MINE

MEDIUM: WATER

WATERWAY: CLEAR CREEK

CAUSE: UNKNOWN

MATERIAL TYPE: OTHER

MATERIAL DESCRIPTION:
UNKNOWN ORANGE LIQUID

MATERIAL QUANTITY:
5 UNKNOWN

WATER QUANTITY:
5 U

CAUSE INFORMATION:

AT 10:45 A.M. ON JUNE 14, 2013, CLEAR CREEK COUNTY RECEIVED A COMPLAINT FROM THE MAYOR OF IDAHO SPRINGS THAT ORANGE-COLORED WATER WAS FLOWING PAST THE INTAKE FOR THEIR WATER TREATMENT PLANT. THE COUNTY CONTACTED DAVID KURZ IN CDPHE WQCD, WHO ADVISED THEM

ACTION:

NOT REPORTED

RESPONSE COMMENTS:

NOT REPORTED

COMMENTS:

NOT REPORTED

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Emergency Response Notification System (ERNSCO)

MAP ID# 30

Distance from Property: 0.03 mi. (158 ft.) N

INCIDENT INFORMATION

GSID#: 1155752

NRC ID#: 1155752

INCIDENT LOCATION: NOT REPORTED

INCIDENT ADDRESS: 15 IDAHO STREET

IDAHO SPRINGS, CO 80452

INCIDENT COUNTY: CLEAR CREEK

INCIDENT DETAILS

INCIDENT DATE: 8/9/2016 12:30

INCIDENT CAUSE: NATURAL PHENOMENON

INCIDENT TYPE: FIXED

INCIDENT OCCURED/DISCOVERED: OCCURRED

INCIDENT DESCRIPTION: CALLER IS REPORTING THAT DURING A POWER OUTAGE FROM A STORM, A BYPASS SYSTEM RELEASED MINE DRAINAGE WATER INTO CLEAR CREEK.

RESPONSIBLE PARTY

RESPONSIBLE COMPANY: STATE OF COLORADO

ADDRESS: ADDRESS NOT REPORTED

IDAHO SPRINGS CO 80452

RESPONSIBLE COMPANY ORGANIZATION TYPE: PRIVATE ENTERPRISE

MATERIALS INVOLVED

CHRIS CODE: NCC

MATERIAL REACHED WATER: YES

WATER AMOUNT: 7680 GALLON(S)

MATERIAL RELEASED/AMOUNT: MINE DRAINAGE WATER / 7680 GALLON(S)

OTHER MATERIALS INVOLVED

- NO OTHER MATERIALS INVOLVED -

REMEDIAL ACTION

REMEDIAL ACTION: BYPASS WAS STOPPED WHEN POWER WAS RESTORED.

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Resource Conservation & Recovery Act - Generator (RCRAGR08)

MAP ID# 31

Distance from Property: 0.03 mi. (158 ft.) N

FACILITY INFORMATION

EPA ID#: COR000234351

NAME: SAFEWAY STORE #390

ADDRESS: 2425 MINER ST

IDAHO SPRINGS, CO 80452

CONTACT NAME: KEITH B POWERS

CONTACT ADDRESS: 5918 STONERIDGE MALL RD

PLEASANTON CA 94588

CONTACT PHONE: 925-226-5655

NON-NOTIFIER: NOT A NON-NOTIFIER

DATE RECEIVED BY AGENCY: 9/3/2014

OWNER TYPE: PRIVATE

OWNER NAME: SWEET-SKAFF INVESTMENT CO LLP

OPERATOR TYPE: PRIVATE

OPERATOR NAME: SAFEWAY STORE #390

CERTIFICATION

CERTIFICATION NAME:

CERTIFICATION TITLE:

CERTIFICATION SIGNED DATE:

KEITH B POWERS

ENV COMPLIANCE MGR

08/29/2014

INDUSTRY CLASSIFICATION (NAICS)

445110 - SUPERMARKETS AND OTHER GROCERY (EXCEPT CONVENIENCE) STORES

SITE HISTORY (INCLUDES GENERATORS AND NON-GENERATORS)

DATE RECEIVED BY AGENCY: 9/3/2014

NAME: SAFEWAY STORE #390

GENERATOR CLASSIFICATION: LARGE QUANTITY GENERATOR

DESCRIPTION: LARGE QUANTITY GENERATORS (LQGS) GENERATE 1,000 KILOGRAMS PER MONTH OR MORE OF HAZARDOUS WASTE OR MORE THAN ONE KILOGRAM PER MONTH OF ACUTELY HAZARDOUS WASTE

CURRENT ACTIVITY INFORMATION

GENERATOR STATUS: **CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR** LAST UPDATED DATE: **09/16/2014**

SUBJECT TO CORRECTIVE ACTION UNIVERSE: **NO**

TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: **NO**

TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: **NO**

NON TDSFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: **NO**

CORRECTIVE ACTION WORKLOAD UNIVERSE: **NO**

IMPORTER: **NO**

UNDERGROUND INJECTION: **NO**

MIXED WASTE GENERATOR: **NO**

UNIVERSAL WASTE DESTINATION FACILITY: **NO**

RECYCLER: **NO**

TRANSFER FACILITY: **NO**

TRANSPORTER: **NO**

USED OIL FUEL BURNER: **NO**

ONSITE BURNER EXEMPTION: **NO**

USED OIL PROCESSOR: **NO**

FURNACE EXEMPTION: **NO**

USED OIL FUEL MARKETER TO BURNER: **NO**

USED OIL REFINER: **NO**

SPECIFICATION USED OIL MARKETER: **NO**

USED OIL TRANSFER FACILITY: **NO**

USED OIL TRANSPORTER: **NO**

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS - **NO EVALUATIONS REPORTED** -

VIOLATIONS - **NO VIOLATIONS REPORTED** -

ENFORCEMENTS - **NO ENFORCEMENTS REPORTED** -

Resource Conservation & Recovery Act - Generator (RCRAGR08)

HAZARDOUS WASTE

D001 **IGNITABLE WASTE**
D002 **CORROSIVE WASTE**
P075 **NICOTINE, & SALTS**
P075 **PYRIDINE, 3-(1-METHYL-2-PYRROLIDINYL)-,(S)-, & SALTS**

UNIVERSAL WASTE - NO UNIVERSAL WASTE REPORTED -

CORRECTIVE ACTION AREA - NO CORRECTIVE ACTION AREA INFORMATION REPORTED -

CORRECTIVE ACTION EVENT - NO CORRECTIVE ACTION EVENT REPORTED -

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Underground Storage Tank Facilities (UST)

[MAP ID# 32](#)

Distance from Property: 0.03 mi. (158 ft.) N

FACILITY INFORMATION

FACILITY ID: 8666

NAME: CLEAR CREEK SCHOOL TRANSPORTATION DIVISION

ADDRESS: 1125 IDAHO ST

IDAHO SPRINGS, CO 80452

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=8666

OWNER INFORMATION

OWNER ID: 1215

NAME: CLEAR CREEK SCHOOL DIST RE-1

ADDRESS: 320 HWY 103

IDAHO SPRINGS, CO 80452

TANK INFORMATION

TANK ID:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:	INSTALLATION DATE:
22668	UNDERGROUND STORAGE 4 - DIESEL TANK		10000	OPEN	NOT REPORTED

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Underground Storage Tank Facilities (UST)

MAP ID# 33

Distance from Property: 0.03 mi. (158 ft.) NW

FACILITY INFORMATION

FACILITY ID: 10636

NAME: IDAHO SPRINGS LUMBER CO

ADDRESS: 1965 MINER ST

IDAHO SPRINGS, CO 80452

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=10636

OWNER INFORMATION

OWNER ID: 584

NAME: BLACKWELL OIL CO

ADDRESS: PO BOX 3333

IDAHO SPRINGS, CO 80452

TANK INFORMATION

TANK ID:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:	INSTALLATION DATE:
28961	UNDERGROUND STORAGE TANK	4 - DIESEL	1000	CLOSED	NOT REPORTED
28962	UNDERGROUND STORAGE TANK	GASOLINE	1000	CLOSED	NOT REPORTED

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Aboveground Storage Tank Facilities (AST)

[MAP ID# 34](#)

Distance from Property: 0.03 mi. (158 ft.) NW

FACILITY INFORMATION

FACILITY ID: 18282

NAME: ORPHAN TANK AT 291 CR 308

ADDRESS: 291 CR 308

DUMONT, CO 80436

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=18282

OWNER INFORMATION

OWNER ID: 20917

NAME: BARBARA SMITH

ADDRESS: PO BOX 1193

IDAHO SPRINGS, CO 80452

TANK INFORMATION

TANK ID: TANK TYPE:

TANK PRODUCT:

TANK CAPACITY: TANK STATUS:

INSTALLATION DATE:

NR NOT REPORTED

NOT REPORTED

NOT REPORTED NOT REPORTED

NOT REPORTED

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Mineral Resource Data System (MRDS)

MAP ID# 34

Distance from Property: 0.04 mi. (211 ft.) NW

FACILITY INFORMATION

GEOSEARCH ID: 10141557

DEP ID: 10141557

MINE NAME: EARL OF KENT

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: LEAD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: LEAD

IMPORTANCE: TERTIARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: EARL OF KENT

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 34

Distance from Property: 0.04 mi. (211 ft.) NW

FACILITY INFORMATION

GEOSEARCH ID: 10214393

DEP ID: 10214393

MINE NAME: UNITED FREELAND

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: COPPER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: COPPER

IMPORTANCE: TERTIARY

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: LEAD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: LEAD

IMPORTANCE: TERTIARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: UNITED FREELAND

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 34

Distance from Property: 0.04 mi. (211 ft.) NW

FACILITY INFORMATION

GEOSEARCH ID: 10287826

DEP ID: 10287826

MINE NAME: HELENSLEA

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: LEAD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: LEAD

IMPORTANCE: TERTIARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: HELENSLEA

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 34

Distance from Property: 0.04 mi. (211 ft.) NW

FACILITY INFORMATION

GEOSEARCH ID: 10166632

DEP ID: 10166632

MINE NAME: MARY C.

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: COPPER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: COPPER

IMPORTANCE: TERTIARY

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: QUARTZ

COMMODITY TYPE: NON-METALLIC

COMMODITY GROUP: SILICA

IMPORTANCE: TERTIARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: MARY C.

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 34

Distance from Property: 0.04 mi. (211 ft.) NW

FACILITY INFORMATION

GEOSEARCH ID: 10190481

DEP ID: 10190481

MINE NAME: **CAMP BIRD**

ADDRESS: **CLEAR CREEK COUNTY**

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: **PAST PRODUCER**

COMMODITY DETAILS

COMMODITY: **COPPER**

COMMODITY TYPE: **METALLIC**

COMMODITY GROUP: **COPPER**

IMPORTANCE: **TERTIARY**

COMMODITY: **GOLD**

COMMODITY TYPE: **METALLIC**

COMMODITY GROUP: **GOLD**

IMPORTANCE: **PRIMARY**

COMMODITY: **SILVER**

COMMODITY TYPE: **METALLIC**

COMMODITY GROUP: **SILVER**

IMPORTANCE: **TERTIARY**

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: **CAMP BIRD**

STATUS: **CURRENT**

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Mineral Resource Data System (MRDS)

MAP ID# 34

Distance from Property: 0.04 mi. (211 ft.) NW

FACILITY INFORMATION

GEOSEARCH ID: 10238766

DEP ID: 10238766

MINE NAME: NEW EUROPE

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: NEW EUROPE

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 34

Distance from Property: 0.04 mi. (211 ft.) NW

FACILITY INFORMATION

GEOSEARCH ID: 10117290

DEP ID: 10117290

MINE NAME: MAY DAY

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: MAY DAY

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 34

Distance from Property: 0.04 mi. (211 ft.) NW

FACILITY INFORMATION

GEOSEARCH ID: 10264081

DEP ID: 10264081

MINE NAME: LADY BELL

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: LADY BELL

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 34

Distance from Property: 0.04 mi. (211 ft.) NW

FACILITY INFORMATION

GEOSEARCH ID: 10214787

DEP ID: 10214787

MINE NAME: EDGAR LEEPER

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: EDGAR LEEPER

STATUS: CURRENT

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Leaking Storage Tank Facilities (LST)

[MAP ID# 34](#)

Distance from Property: 0.03 mi. (158 ft.) NW

FACILITY INFORMATION

UNIQUE ID: 18282LST

FACILITY ID: 18282

NAME: ORPHAN TANK AT 291 CR 308

ADDRESS: 291 CR 308

IDAHO SPRINGS, CO 80452

SITE NAME: ORPHAN TANK AT 291 CR 308

LOCATION: 291 CR 308
IDAHO SPRINGS 80452

LEAKING INFORMATION

EVENT ID:

STATUS:

RELEASE DATE:

ALTERNATE NAME:

10358

CLOSED

5/16/2007 11:05

ORPHAN TANK AT 291 CR 308

COSTIS LINK: http://costis.cdle.state.co.us/event.asp?h_id=10358

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Mineral Resource Data System (MRDS)

MAP ID# 35

Distance from Property: 0.03 mi. (158 ft.) NE

FACILITY INFORMATION

GEOSEARCH ID: 10264232

DEP ID: 10264232

MINE NAME: MARTHA PARKS

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: MARTHA PERKS

STATUS: PREVIOUS

SITE NAME: MARTHA PARKS

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 36

Distance from Property: 0.03 mi. (158 ft.) NW

FACILITY INFORMATION

GEOSEARCH ID: 10190368

DEP ID: 10190368

MINE NAME: PUZZLER,ALKIRE

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: COPPER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: COPPER

IMPORTANCE: TERTIARY

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: LEAD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: LEAD

IMPORTANCE: TERTIARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

COMMODITY: ZINC

COMMODITY TYPE: METALLIC

COMMODITY GROUP: ZINC

IMPORTANCE: TERTIARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: PUZZLER,ALKIRE

STATUS: CURRENT

SITE NAME: LINCOLN TUNNEL

STATUS: PREVIOUS

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Mineral Resource Data System (MRDS)

MAP ID# 37

Distance from Property: 0.03 mi. (158 ft.) NW

FACILITY INFORMATION

GEOSEARCH ID: 10142733

DEP ID: 10142733

MINE NAME: PUMPKIN

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: PUMPKIN

STATUS: CURRENT

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Surface Mining Control and Reclamation Act Sites (SMCRA)

MAP ID# 38

Distance from Property: 0.03 mi. (158 ft.) SW

FACILITY INFORMATION

GEOSEARCH ID: **CO001099**

AMLIS KEY: **CO001099**

PROBLEM AREA NUMBER: **1099**

PROBLEM AREA NAME: **CLEAR CREEK COUNTY**

ADDRESS: **CLEAR CREEK COUNTY**

IDAHO SPRINGS, CO 80452

COUNTY: **CLEAR CREEK**

PLAN UNIT NUMBER: **101**

PLAN UNIT NAME: **COLORADO HARDROCK**

FACILITY DETAIL(S)

FUNDING SOURCE/PROGRAM: **NCA**

PROBLEM TYPE: **P**

PROBLEM PRIORITY: **1**

MINING TYPE: **U**

ORE TYPES: **NOT REPORTED**

DATE PREPARED: **5/6/1997 0:00**

DATE REVISED: **6/26/2014 15:54**

PRIVATE OWNER %: **90**

STATE OWNER %: **0**

OTHER FEDERAL OWNER %: **0**

PARK SERVICE OWNER %: **0**

FOREST SERVICE OWNER %: **10**

INDIAN OWNER %: **0**

BLM OWNER %: **0**

UNFUNDED STANDARD UNITS: **1556**

UNFUNDED COSTS: **7828490**

UNFUNDED GPRA ACRES: **155.6**

UNFUNDED METRIC UNITS: **1556**

FUNDED STANDARD UNITS: **0**

FUNDED COSTS: **0**

FUNDED GPRA ACRES: **0**

FUNDED METRIC UNITS: **0**

COMPLETED STANDARD UNITS: **460**

COMPLETED COSTS: **182152**

COMPLETED GPRA ACRES: **46**

COMPLETED METRIC UNITS: **460**

FUNDING SOURCE/PROGRAM: **NCA**

PROBLEM TYPE: **VO**

PROBLEM PRIORITY: **1**

Surface Mining Control and Reclamation Act Sites (SMCRA)

MINING TYPE: **U**
ORE TYPES: **NOT REPORTED**
DATE PREPARED: **5/6/1997 0:00**
DATE REVISED: **6/26/2014 15:54**
PRIVATE OWNER %: **90**
STATE OWNER %: **0**
OTHER FEDERAL OWNER %: **0**
PARK SERVICE OWNER %: **0**
FOREST SERVICE OWNER %: **10**
INDIAN OWNER %: **0**
BLM OWNER %: **0**
UNFUNDED STANDARD UNITS: **492**
UNFUNDED COSTS: **2478128**
UNFUNDED GPRA ACRES: **49.2**
UNFUNDED METRIC UNITS: **492**
FUNDED STANDARD UNITS: **0**
FUNDED COSTS: **0**
FUNDED GPRA ACRES: **0**
FUNDED METRIC UNITS: **0**
COMPLETED STANDARD UNITS: **539**
COMPLETED COSTS: **2624587**
COMPLETED GPRA ACRES: **53.9**
COMPLETED METRIC UNITS: **539**

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Emergency Response Notification System (ERNSCO)

MAP ID# 39

Distance from Property: 0.04 mi. (211 ft.) NW

INCIDENT INFORMATION

GSID#: 836393

NRC ID#: 836393

INCIDENT LOCATION: CENTER STREET AT FIFTH AVENUE

INCIDENT ADDRESS: NOT REPORTED
IDAHO SPRINGS, CO

INCIDENT COUNTY: CLEAR CREEK

INCIDENT DETAILS

INCIDENT DATE: 5/22/2007 1:00:00 PM

INCIDENT CAUSE: EQUIPMENT FAILURE

INCIDENT TYPE: FIXED

INCIDENT OCCURED/DISCOVERED: OCCURRED

INCIDENT DESCRIPTION: CALLER REPORTED THAT A PUMPING STATION BACKED UP WITH SEWAGE DUE TO A PUMP FAILURE AND DISCHARGED AN UNKNOWN RED SUBSTANCE INTO AN IRRIGATION DITCH THAT LEADS TO CLEAR CREEK.

RESPONSIBLE PARTY

RESPONSIBLE COMPANY: NOT REPORTED

ADDRESS: ADDRESS NOT REPORTED
CITY NOT REPORTED

RESPONSIBLE COMPANY ORGANIZATION TYPE: UNKNOWN

MATERIALS INVOLVED

CHRIS CODE: NCC

MATERIAL REACHED WATER: YES

WATER AMOUNT: UNKNOWN AMOUNT / NOT REPORTED

MATERIAL RELEASED/AMOUNT: RAW SEWAGE / UNKNOWN AMOUNT

CHRIS CODE: NCC

MATERIAL REACHED WATER: YES

WATER AMOUNT: UNKNOWN AMOUNT / NOT REPORTED

MATERIAL RELEASED/AMOUNT: RED UNKNOWN SUBSTANCE / UNKNOWN AMOUNT

OTHER MATERIALS INVOLVED

- NO OTHER MATERIALS INVOLVED -

REMEDIAL ACTION

REMEDIAL ACTION: LOCAL COUNTY WILL HANDLE THE CLEAN UP, CLEAN UP IS UNDERWAY

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Spills Listing (SPILLS)

MAP ID# 39

Distance from Property: 0.04 mi. (211 ft.) NW

INCIDENT INFORMATION

CASE NUMBER: 2007-0517 NRC NUMBER: NOT REPORTED

SPILL DATE: 05/22/07

SPILL LOCATION: CENTER ST & 5TH AVE

SPILL CITY/STATE/ZIP: IDAHO SPRINGS, CO NOT REPORTED

SPILL COUNTY: CLEAR CREEK

RESPONSIBLE PARTY

NAME: UNKNOWN

ADDRESS: STREET NOT REPORTED
CITY NOT REPORTED, CO

COUNTY: NOT REPORTED

CONTACT: NOT REPORTED

PHONE: NOT REPORTED

INCIDENT DETAILS

SOURCE: HIGHWAY/ROADWAY

SOURCE TYPE: DESCRIBE SOURCE

MEDIUM: WATER AND LAND

WATERWAY: DRAINAGE DITCH

CAUSE: FAILURE EQUIPMENT

MATERIAL TYPE: UNKNOWN

MATERIAL DESCRIPTION:
UNKNOWN

MATERIAL QUANTITY:
30 GALLONS

WATER QUANTITY:
NOT REPORTED

CAUSE INFORMATION:

RED LIQUID COMING OUT OF MANHOLE TO DRAINAGE DITCH - NO RELEASE TO CLEAR CREEK. NEG FOR ALL HAZMAT.
IDAHO SPRINGS WASTEWATER

ACTION:

CSP-HAZCATTED & LEFT ON SITE - COUNTY WILL VAC UP AND EXCAVATE.

RESPONSE COMMENTS:

POSSIBLY AN IRON ORE OXIDE.

COMMENTS:

NOT REPORTED

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Spills Listing (SPILLS)

MAP ID# 40

Distance from Property: 0.04 mi. (211 ft.) NW

INCIDENT INFORMATION

CASE NUMBER: 2011-0453 NRC NUMBER: NOT REPORTED
SPILL DATE: 07/10/11
SPILL LOCATION: 1711 MINER ST, AT THE WASTEWATER TREATMENT PLANT
SPILL CITY/STATE/ZIP: IDAHO SPRINGS, CO 80452
SPILL COUNTY: CLEAR CREEK

RESPONSIBLE PARTY

NAME: IDAHO SPRINGS WASTEWATER TREATMENT PLANT
ADDRESS: 1711 MINER ST.
IDAHO SPRINGS, CO 80452
COUNTY: CLEAR CREEK
CONTACT: JOHN CURTIS
PHONE: 720-341-0305

INCIDENT DETAILS

SOURCE: SEWER SYSTEM
SOURCE TYPE: SANITARY SEWER/LIFT STATION
MEDIUM: WATER
WATERWAY: CLEAR CREEK
CAUSE: FAILURE EQUIPMENT
MATERIAL TYPE: SANITARY SEWER OVERFLOW

MATERIAL DESCRIPTION:	MATERIAL QUANTITY:	WATER QUANTITY:
TREATED, NOT DISINFECTED WASTEWATER	200000 GALLONS	200000 G

CAUSE INFORMATION:

BROKEN BRICKS AND ONE OF THE ARMS POPPING OPEN CAUSED A RELEASE OF 200,000 GALLONS OF TREATED, BUT NOT DISINFECTED, WASTEWATER TO CLEAR CREEK. THE HIGH LEVELS HAD BEEN RECORDED AT 1547 ON 7/9/11, BUT THE ALARM DID NOT GO OFF. THE RELEASE WAS DISCOVERED

ACTION:

REPAIRS WERE COMPLETED ENOUGH TO STOP THE RELEASE BY 10 A.M.

RESPONSE COMMENTS:

THE ROC RESIGNED. JOHN CURTIS IS ON THE TOWN BOARD, SO HE REPORTED THE RELEASE. RAMEY ENVIRONMENTAL HAS JUST BEEN HIRED TO RUN THE PLANT UNTIL A PERMANENT PERSON IS FOUND. JOHN CURTIS' EMAIL IS GTOWNUTILITIES@EARTHLINK.NET. HE AND WAYNE RAMEY WILL MAK

COMMENTS:

NOT REPORTED

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Resource Conservation & Recovery Act - Generator (RCRAGR08)

MAP ID# 41

Distance from Property: 0.04 mi. (211 ft.) N

FACILITY INFORMATION

EPA ID#: **COD980961742**

NAME: **PSCO-DUMONT SC**

ADDRESS: **681 CR 308
DUMONT, CO 80436**

CONTACT NAME: **QUINN V KILTY**

CONTACT ADDRESS: **1800 LARIMER ST STE 1300
DENVER CO 80202**

CONTACT PHONE: **303-294-2165**

NON-NOTIFIER: **NOT A NON-NOTIFIER**

DATE RECEIVED BY AGENCY: **3/10/2015**

OWNER TYPE: **PRIVATE**

OWNER NAME: **PUBLIC SERVICE COMPANY OF CO AN
XCEL**

OPERATOR TYPE: **PRIVATE**

OPERATOR NAME: **PSCO-DUMONT SC**

CERTIFICATION

CERTIFICATION NAME: **RICHARD KIM MONTGOMERY
R KIM MONTGOMERY**

CERTIFICATION TITLE: **ENVIRONMENTAL ANALYST
MGR**

CERTIFICATION SIGNED DATE:
**03/03/2015
12/16/2008**

INDUSTRY CLASSIFICATION (NAICS)

221119 - OTHER ELECTRIC POWER GENERATION

221122 - ELECTRIC POWER DISTRIBUTION

SITE HISTORY (INCLUDES GENERATORS AND NON-GENERATORS)

DATE RECEIVED BY AGENCY: **3/10/2015**

NAME: **PSCO-DUMONT SC**

GENERATOR CLASSIFICATION: **LARGE QUANTITY GENERATOR**

DESCRIPTION: **LARGE QUANTITY GENERATORS (LQGS) GENERATE 1,000 KILOGRAMS PER MONTH OR MORE OF
HAZARDOUS WASTE OR MORE THAN ONE KILOGRAM PER MONTH OF ACUTELY HAZARDOUS WASTE**

DATE RECEIVED BY AGENCY: **1/9/2009**

NAME: **PSCO-DUMONT SC**

GENERATOR CLASSIFICATION: **LARGE QUANTITY GENERATOR**

DESCRIPTION: **LARGE QUANTITY GENERATORS (LQGS) GENERATE 1,000 KILOGRAMS PER MONTH OR MORE OF
HAZARDOUS WASTE OR MORE THAN ONE KILOGRAM PER MONTH OF ACUTELY HAZARDOUS WASTE**

DATE RECEIVED BY AGENCY: **6/25/1986**

NAME: **PUBLIC SERVICE FRONT RANGE WEST**

GENERATOR CLASSIFICATION: **LARGE QUANTITY GENERATOR**

DESCRIPTION: **LARGE QUANTITY GENERATORS (LQGS) GENERATE 1,000 KILOGRAMS PER MONTH OR MORE OF
HAZARDOUS WASTE OR MORE THAN ONE KILOGRAM PER MONTH OF ACUTELY HAZARDOUS WASTE**

CURRENT ACTIVITY INFORMATION

GENERATOR STATUS: **CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR** LAST UPDATED DATE: **03/11/2015**

SUBJECT TO CORRECTIVE ACTION UNIVERSE: **NO**

TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: **NO**

TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: **NO**

Resource Conservation & Recovery Act - Generator (RCRAGR08)

NON TSDFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: **NO**

CORRECTIVE ACTION WORKLOAD UNIVERSE: **NO**

IMPORTER: **NO**

UNDERGROUND INJECTION: **NO**

MIXED WASTE GENERATOR: **NO**

UNIVERSAL WASTE DESTINATION FACILITY: **NO**

RECYCLER: **NO**

TRANSFER FACILITY: **NO**

TRANSPORTER: **NO**

USED OIL FUEL BURNER: **NO**

ONSITE BURNER EXEMPTION: **NO**

USED OIL PROCESSOR: **NO**

FURNACE EXEMPTION: **NO**

USED OIL FUEL MARKETER TO BURNER: **NO**

USED OIL REFINER: **NO**

SPECIFICATION USED OIL MARKETER: **NO**

USED OIL TRANSFER FACILITY: **NO**

USED OIL TRANSPORTER: **NO**

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS - **NO EVALUATIONS REPORTED** -

VIOLATIONS - **NO VIOLATIONS REPORTED** -

ENFORCEMENTS - **NO ENFORCEMENTS REPORTED** -

HAZARDOUS WASTE

D001 IGNITABLE WASTE

D002 CORROSIVE WASTE

D007 CHROMIUM

D008 LEAD

UNIVERSAL WASTE

WASTE TYPE:	ACCUMULATED WASTE ON-SITE:	GENERATED WASTE ON-SITE:	SOURCE TYPE:
NOT REPORTED	NO	NO	NOTIFICATION
BATTERIES	NO	NOT REPORTED	NOTIFICATION
OTHER	NO	NO	NOTIFICATION
LAMPS	NO	NOT REPORTED	NOTIFICATION
MERCURY-CONTAINING DEVICES	NO	NO	NOTIFICATION
PESTICIDES	NO	NOT REPORTED	NOTIFICATION
MERCURY CONTAINING EQUIPMENT	NO	NOT REPORTED	NOTIFICATION

CORRECTIVE ACTION AREA - **NO CORRECTIVE ACTION AREA INFORMATION REPORTED** -

CORRECTIVE ACTION EVENT - **NO CORRECTIVE ACTION EVENT REPORTED** -

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Underground Storage Tank Facilities (UST)

MAP ID# 42

Distance from Property: 0.04 mi. (211 ft.) N

FACILITY INFORMATION

FACILITY ID: 3846
NAME: DOWNIEVILLE FUEL STOP REXOCO #35
ADDRESS: 1039 CR 308 AND 1041-1041A CR 308
DOWNIEVILLE, CO 80436

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=3846

OWNER INFORMATION

OWNER ID: 18757
NAME: P & T HOLDINGS DIVISION OF REX OIL
ADDRESS: 1970 E 68TH AVE
DENVER, CO 80229

TANK INFORMATION

TANK ID:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:	INSTALLATION DATE:
10831	UNDERGROUND STORAGE TANK	4 - DIESEL	10000	OPEN	NOT REPORTED
10832	UNDERGROUND STORAGE TANK	4 - DIESEL	10000	OPEN	NOT REPORTED
10833	UNDERGROUND STORAGE TANK	4 - DIESEL	10000	OPEN	NOT REPORTED
10834	UNDERGROUND STORAGE TANK	1 - UNLEADED REGULAR (RUL)	10000	OPEN	NOT REPORTED
10835	UNDERGROUND STORAGE TANK	1 - UNLEADED REGULAR (RUL)	10000	OPEN	NOT REPORTED
10836	UNDERGROUND STORAGE TANK	2 - UNLEADED MID-GRADE (MUL)	10000	OPEN	NOT REPORTED
10837	UNDERGROUND STORAGE TANK	3 - UNLEADED PREMIUM (PUL)	10000	OPEN	NOT REPORTED
10838	UNDERGROUND STORAGE TANK	GASOLINE	10000	CLOSED	NOT REPORTED
10839	UNDERGROUND STORAGE TANK	4 - DIESEL	10000	CLOSED	NOT REPORTED
10840	UNDERGROUND STORAGE TANK	GASOLINE	10000	CLOSED	NOT REPORTED
10841	UNDERGROUND STORAGE TANK	GASOLINE	10000	CLOSED	NOT REPORTED

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Leaking Storage Tank Facilities (LST)

MAP ID# 42

Distance from Property: 0.04 mi. (211 ft.) N

FACILITY INFORMATION

UNIQUE ID: 3846LST

FACILITY ID: 3846

NAME: DOWNIEVILLE FUEL STOP REXOCO #35

ADDRESS: 1039 CR 308 AND 1041-1041A CR 308

DOWNIEVILLE, CO 80436

SITE NAME: DOWNIEVILLE FUEL STOP REXOCO #35

LOCATION: 1039 CR 308 AND 1041-1041A CR 308
DOWNIEVILLE 80436

LEAKING INFORMATION

EVENT ID:	STATUS:	RELEASE DATE:	ALTERNATE NAME:
11707	CLOSED	8/22/2012 13:35	DOWNIEVILLE FUEL STOP REXOCO #35
COSTIS LINK:	http://costis.cdle.state.co.us/event.asp?h_id=11707		
11215	OPEN	8/3/2010 8:59	DOWNIEVILLE FUEL STOP REXOCO #35
COSTIS LINK:	http://costis.cdle.state.co.us/event.asp?h_id=11215		
8974	CLOSED	6/24/2002 8:57	DOWNIEVILLE FUEL STOP REXOCO #35
COSTIS LINK:	http://costis.cdle.state.co.us/event.asp?h_id=8974		

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Mineral Resource Data System (MRDS)

MAP ID# 43

Distance from Property: 0.04 mi. (211 ft.) NW

FACILITY INFORMATION

GEOSEARCH ID: 10239277

DEP ID: 10239277

MINE NAME: SPECHT TUNNEL

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: SPECHT TUNNEL

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 43

Distance from Property: 0.04 mi. (211 ft.) NW

FACILITY INFORMATION

GEOSEARCH ID: 10108373

DEP ID: 10108373

MINE NAME: CLEAR CREEK & GILPIN

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: PRIMARY

COMMODITY: LEAD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: LEAD

IMPORTANCE: PRIMARY

COMMODITY: ZINC

COMMODITY TYPE: METALLIC

COMMODITY GROUP: ZINC

IMPORTANCE: PRIMARY

COMMODITY: COPPER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: COPPER

IMPORTANCE: PRIMARY

MATERIAL DETAILS

MATERIAL: GOLD

ORE OR GANGUE: ORE

MATERIAL: SILVER

ORE OR GANGUE: ORE

NAME DETAILS

SITE NAME: TORRY

Mineral Resource Data System (MRDS)

STATUS: **PREVIOUS**

SITE NAME: **SPECHT**

STATUS: **PREVIOUS**

SITE NAME: **SILVER KING**

STATUS: **PREVIOUS**

SITE NAME: **HIAWATHA**

STATUS: **PREVIOUS**

SITE NAME: **CALIFORNIA**

STATUS: **PREVIOUS**

SITE NAME: **MACKAY**

STATUS: **PREVIOUS**

SITE NAME: **MONARCH**

STATUS: **PREVIOUS**

SITE NAME: **CLEAR CREEK & GILPIN**

STATUS: **CURRENT**

SITE NAME: **FREELAND**

STATUS: **PREVIOUS**

SITE NAME: **SYNDICATE**

STATUS: **PREVIOUS**

SITE NAME: **SOUND**

STATUS: **PREVIOUS**

SITE NAME: **RUBY**

STATUS: **PREVIOUS**

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Mineral Resource Data System (MRDS)

MAP ID# 43

Distance from Property: 0.04 mi. (211 ft.) NW

FACILITY INFORMATION

GEOSEARCH ID: 10117546

DEP ID: 10117546

MINE NAME: CLEAR CREEK & GILPIN TUNNEL

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: COPPER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: COPPER

IMPORTANCE: TERTIARY

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

COMMODITY: LEAD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: LEAD

IMPORTANCE: TERTIARY

MATERIAL DETAILS

MATERIAL: GALENA

ORE OR GANGUE: ORE

MATERIAL: SPHALERITE

ORE OR GANGUE: ORE

MATERIAL: PYRITE

ORE OR GANGUE: ORE

MATERIAL: CHALCOPYRITE

ORE OR GANGUE: ORE

NAME DETAILS

Mineral Resource Data System (MRDS)

SITE NAME: **CLEAR CREEK & GILPIN TUNNEL**

STATUS: **CURRENT**

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Mineral Resource Data System (MRDS)

MAP ID# 44

Distance from Property: 0.04 mi. (211 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10263853

DEP ID: 10263853

MINE NAME: RISING SUN

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: RISING SUN

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 45

Distance from Property: 0.05 mi. (264 ft.) S

FACILITY INFORMATION

GEOSEARCH ID: 10239638

DEP ID: 10239638

MINE NAME: SAUMS

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: SAUMS

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 45

Distance from Property: 0.05 mi. (264 ft.) S

FACILITY INFORMATION

GEOSEARCH ID: 10287393

DEP ID: 10287393

MINE NAME: PLATTS

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: BIG CHANCE

STATUS: PREVIOUS

SITE NAME: PLATTS

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 45

Distance from Property: 0.05 mi. (264 ft.) S

FACILITY INFORMATION

GEOSEARCH ID: 10288073

DEP ID: 10288073

MINE NAME: TEDDY BEAR

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: LEAD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: LEAD

IMPORTANCE: TERTIARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS

MATERIAL: SPHALERITE

ORE OR GANGUE: ORE

MATERIAL: GALENA

ORE OR GANGUE: ORE

NAME DETAILS

SITE NAME: TEDDY BEAR

STATUS: CURRENT

SITE NAME: PANAMA TUNNEL

STATUS: PREVIOUS

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Mineral Resource Data System (MRDS)

MAP ID# 45

Distance from Property: 0.04 mi. (211 ft.) S

FACILITY INFORMATION

GEOSEARCH ID: 10214401

DEP ID: 10214401

MINE NAME: RED ELEPHANT

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: LEAD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: LEAD

IMPORTANCE: PRIMARY

COMMODITY: ZINC

COMMODITY TYPE: METALLIC

COMMODITY GROUP: ZINC

IMPORTANCE: TERTIARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: RED ELEPHANT

STATUS: CURRENT

SITE NAME: COMMODORE TUNNEL

STATUS: PREVIOUS

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Mineral Resource Data System (MRDS)

MAP ID# 45

Distance from Property: 0.05 mi. (264 ft.) S

FACILITY INFORMATION

GEOSEARCH ID: 10287745

DEP ID: 10287745

MINE NAME: GOLD VALLEY

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: GOLD VALLEY

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 45

Distance from Property: 0.05 mi. (264 ft.) S

FACILITY INFORMATION

GEOSEARCH ID: 10190331

DEP ID: 10190331

MINE NAME: ANAMOSA

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: ANAMOSA

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 46

Distance from Property: 0.04 mi. (211 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10264331

DEP ID: 10264331

MINE NAME: RUBY TUNNEL

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: RUBY TUNNEL

STATUS: CURRENT

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Spills Listing (SPILLS)

MAP ID# 47

Distance from Property: 0.05 mi. (264 ft.) NW

INCIDENT INFORMATION

CASE NUMBER: 2011-0625 NRC NUMBER: NOT REPORTED

SPILL DATE: 08/30/11

SPILL LOCATION: 2911 COLORADO BLVD,

SPILL CITY/STATE/ZIP: IDAHO SPRINGS, CO 80452

SPILL COUNTY: CLEAR CREEK

RESPONSIBLE PARTY

NAME: MCDONALD'S

ADDRESS: 2911 COLORADO BLVD

IDAHO SPRINGS, CO 80452

COUNTY: CLEAR CREEK

CONTACT: RUDY, MANAGER

PHONE: 303-567-1410

INCIDENT DETAILS

SOURCE: SEWER SYSTEM

SOURCE TYPE: SANITARY SEWER/LIFT STATION

MEDIUM: WATER AND LAND

WATERWAY: STORM DRAIN

CAUSE: FAILURE EQUIPMENT

MATERIAL TYPE: SANITARY SEWER OVERFLOW

MATERIAL DESCRIPTION:

SEWAGE

MATERIAL QUANTITY:

50 UNKNOWN

WATER QUANTITY:

50 U

CAUSE INFORMATION:

LIFT PUMP FOR THE LIFT STATION OWNED BY MCDONALD'S ON THIS PROPERTY NEEDS TO BE REPLACED. THEY HAVE ORDERED A NEW ONE FROM GERMANY. THIS REPORT IS FOR THE FIRST OF 3 SUCH RELEASES. THE AMOUNT OF THE RELEASE ON 8/30/11 IS UNKNOWN. SEWAGE DID GO INTO A

ACTION:

NOT REPORTED

RESPONSE COMMENTS:

REFER TO THE OTHER TWO RELATED SPILLS 2011-0626 AND 2011-0627. DOUG CAMRUD IS LOOKING INTO THIS SITUATION.

COMMENTS:

NOT REPORTED

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Spills Listing (SPILLS)

MAP ID# 47

Distance from Property: 0.05 mi. (264 ft.) NW

INCIDENT INFORMATION

CASE NUMBER: 2011-0626 NRC NUMBER: NOT REPORTED

SPILL DATE: 09/03/11

SPILL LOCATION: 2911 COLORADO BLVD

SPILL CITY/STATE/ZIP: IDAHO SPRINGS, CO 80452

SPILL COUNTY: CLEAR CREEK

RESPONSIBLE PARTY

NAME: MCDONALD'S

ADDRESS: 2911 COLORADO BLVD

IDAHO SPRINGS, CO 80452

COUNTY: CLEAR CREEK

CONTACT: RUDY, MANAGER

PHONE: 303-567-1410

INCIDENT DETAILS

SOURCE: SEWER SYSTEM

SOURCE TYPE: SANITARY SEWER/LIFT STATION

MEDIUM: LAND

WATERWAY: STORM DRAINS --> GRASSY AREA BY INTERSTATE

CAUSE: FAILURE EQUIPMENT

MATERIAL TYPE: SANITARY SEWER OVERFLOW

MATERIAL DESCRIPTION:

SEWAGE

MATERIAL QUANTITY:

8400 GALLONS

WATER QUANTITY:

8400 G

CAUSE INFORMATION:

CALLER REPORTS THAT THE LIFT PUMP FOR THE LIFT STATION OWNED BY MCDONALD'S ON THIS PROPERTY NEEDS TO BE REPLACED. THEY HAVE ORDERED A NEW ONE FROM GERMANY. THIS REPORT IS FOR THE MIDDLE OF 3 SPILLS FROM 8/30 - 9/3/11. THE OTHER TWO REPORTS WILL BE 2011

ACTION:

AFTER THE THIRD EVENT OF A RELEASE FROM THIS LIFT STATION, WHICH OCCURRED AT 6 P.M., ONLY 7 HOURS AFTER THIS RELEASE, THE CITY OF IDAHO SPRINGS SHUT OFF THE WATER TO THIS MCDONALD'S, FORCING THEM TO CLOSE. THEY TURNED THE WATER BACK ON FOR THEM ON SUNDAY

RESPONSE COMMENTS:

CALLER'S EMAIL: PW@IDAHOSPRINGSCO.COM; FAX: 303-567-0124; CALLER DID CALL ON 8/31/11 TO REPORT THE FIRST RELEASE, BUT SOMEHOW WE GOT HIS PHONE NUMBER WRITTEN DOWN INCORRECTLY AND WERE UNABLE TO CALL HIM BACK. THE MESSAGE WAS NOT VERY CLEAR SO WE WEREN'T

COMMENTS:

NOT REPORTED

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Spills Listing (SPILLS)

MAP ID# 47

Distance from Property: 0.05 mi. (264 ft.) NW

INCIDENT INFORMATION

CASE NUMBER: 2013-0263 NRC NUMBER: NOT REPORTED

SPILL DATE: 04/21/13

SPILL LOCATION: 2911 COLORADO BLVD

SPILL CITY/STATE/ZIP: IDAHO SPRINGS, CO 80452

SPILL COUNTY: CLEAR CREEK

RESPONSIBLE PARTY

NAME: MCDONALDS

ADDRESS: 2911 COLORADO BLVD
IDAHO SPRINGS, CO 80452

COUNTY: CLEAR CREEK

CONTACT: UNKNOWN

PHONE: NOT REPORTED

INCIDENT DETAILS

SOURCE: SEWER SYSTEM

SOURCE TYPE: SANITARY SEWER/LIFT STATION

MEDIUM: WATER AND LAND

WATERWAY: STORM DRAIN --> FIELD

CAUSE: UNKNOWN

MATERIAL TYPE: SANITARY SEWER OVERFLOW

MATERIAL DESCRIPTION:
SEWAGE

MATERIAL QUANTITY:
1000 GALLONS

WATER QUANTITY:
1000 G

CAUSE INFORMATION:

CALLER DROVE PAST THE MCDONALD'S AND NOTICED THAT WATER WAS COMING UP FROM THE MANHOLE ON MCDONALD'S PROPERTY. HE DOES NOT KNOW HOW LONG IT HAD BEEN BACKING UP. THE WATER WAS SPURTING UP 3 INCHES ABOVE THE MANHOLE, AND THERE WAS A PUDDLE AROUND THE MANH

ACTION:

NOT REPORTED

RESPONSE COMMENTS:

NOT REPORTED

COMMENTS:

CALLER'S EMAIL: PW@IDAHOSSPRINGSCO.COM. HE IS WILLING TO DO THE REPORT.

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Spills Listing (SPILLS)

MAP ID# 47

Distance from Property: 0.05 mi. (264 ft.) NW

INCIDENT INFORMATION

CASE NUMBER: 2007-1005 NRC NUMBER: NOT REPORTED

SPILL DATE: 12/25/07

SPILL LOCATION: 2911 COLORADO BLVD.

SPILL CITY/STATE/ZIP: IDAHO SPRINGS, CO 80452

SPILL COUNTY: GILPIN

RESPONSIBLE PARTY

NAME: MCDONALD'S

ADDRESS: 2911 COLORADO BLVD.

IDAHO SPRINGS, CO 80452

COUNTY: NOT REPORTED

CONTACT: JIM BOSELLI

PHONE: 720-621-2773

INCIDENT DETAILS

SOURCE: SEWER SYSTEM

SOURCE TYPE: SANITARY SEWER/LIFT STATION

MEDIUM: FIXED FACILITY

WATERWAY: NOT REPORTED

CAUSE: FAILURE EQUIPMENT

MATERIAL TYPE: SANITARY SEWER OVERFLOW

MATERIAL DESCRIPTION:
WASTEWATER

MATERIAL QUANTITY:
25 GALLONS

WATER QUANTITY:
NOT REPORTED

CAUSE INFORMATION:

MOTOR ON A PUMP AT A LIFT STATION FAILED ALLOWING FOR RELEASE OF WASTEWATER FROM FACILITY.

ACTION:

PUMP WAS TURNED OFF AND A NEW PUMP WAS INSTALLED. IMPACTED AREAS WERE CLEANED AND FACILITY IS BACK IN SERVICE.

RESPONSE COMMENTS:

NO WATERWAYS WERE IMPACTED.

COMMENTS:

NOT REPORTED

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Spills Listing (SPILLS)

[MAP ID# 47](#)

Distance from Property: 0.05 mi. (264 ft.) NW

INCIDENT INFORMATION

CASE NUMBER: 2013-0531 NRC NUMBER: NOT REPORTED

SPILL DATE: 08/20/13

SPILL LOCATION: 2911 COLORADO BLVD.

SPILL CITY/STATE/ZIP: IDAHO SPRINGS, CO 80452

SPILL COUNTY: CLEAR CREEK

RESPONSIBLE PARTY

NAME: MCDONALD'S

ADDRESS: 2911 COLORADO BLVD.

IDAHO SPRINGS, CO 80452

COUNTY: NOT REPORTED

CONTACT: JIM BOSELLI

PHONE: 720-261-2773

INCIDENT DETAILS

SOURCE: FIXED FACILITY

SOURCE TYPE: STORAGE TANK

MEDIUM: LAND

WATERWAY: NOT REPORTED

CAUSE: OTHER

MATERIAL TYPE: SANITARY SEWER OVERFLOW

MATERIAL DESCRIPTION:
RAW SEWAGE

MATERIAL QUANTITY:
25 GALLONS

WATER QUANTITY:
0 NOT REPORTED

CAUSE INFORMATION:

GREASE TRAPS AT THE RESTAURANT OVERFLOWED ALLOWING FOR RELEASE OF UNTREATED WASTEWATER ON TO PARKING LOT AND DRAINED INTO CDOT RIGHT-OF-WAY ON I-70.

ACTION:

SHIRLEY SEPTIC RESPONDED AND PUMPED OUT THE OVERFLOWING SEPTIC TANKS. ONLY CLEANUP DONE WAS IN THE PARKING LOT OF RESTAURANT. NO ADDITIONAL CLEANUP OF ANY OTHER IMPACTED AREAS.

RESPONSE COMMENTS:

ACCORDING TO THE CITY OF IDAHO SPRINGS REPRESENTATIVE WHO SUBMITTED THE INFORMATION FOR THIS REPORT, THIS IS THE FOURTH TIME IN A YEAR THAT THE SEPTIC SYTEM AT THIS BUSINESS HAS OVERFLOWED.

COMMENTS:

CLEAR CREEK COUNTY ENV. HLTH-MITCH BROWN

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Spills Listing (SPILLS)

MAP ID# 47

Distance from Property: 0.05 mi. (264 ft.) NW

INCIDENT INFORMATION

CASE NUMBER: 2016-0296 NRC NUMBER: NOT REPORTED

SPILL DATE: 6/7/2016

SPILL LOCATION: 2911 COLORADO BLVD

SPILL CITY/STATE/ZIP: IDAHO SPRINGS, CO NOT REPORTED

SPILL COUNTY: CLEAR CREEK

RESPONSIBLE PARTY

NAME: MCDONALD'S

ADDRESS: 2911 COLORADO BLVD
IDAHO SPRINGS, CO

COUNTY: NOT REPORTED

CONTACT: MARCO, MANAGER

PHONE: 303-567-1410

INCIDENT DETAILS

SOURCE: SEWER SYSTEM

SOURCE TYPE: SANITARY SEWER/LIFT STATION

MEDIUM: WATER AND LAND

WATERWAY: CLEAR CREEK

CAUSE: UNKNOWN

MATERIAL TYPE: SANITARY SEWER OVERFLOW

MATERIAL DESCRIPTION:
SEWAGE

MATERIAL QUANTITY:
NOT REPORTED

WATER QUANTITY:
NOT REPORTED

CAUSE INFORMATION:

DUE TO UNKNOWN CAUSE THE SEWAGE IS OVERFLOWING NEAR THIS MCDONALD'S AND RUNNING INTO THE STREET GUTTER, THEN INTO A CULVERT ON CLEAR CREEK. IT IS DIFFICULT TO DETERMINE HOW MUCH FLOW THERE HAS BEEN, BUT THE FLOW IS ONGOING EVERY TIME SOMEONE USES THE FACILITIES IN THE RESTAURANT. THE FIRE DEPT. ALERTED THE CALLER THIS MORNING APPROX 9:30, BUT THEY HAVE BEEN TOLD THAT THIS HAS BEEN GOING ON FOR 24 HOURS. THE CALLER'S EMAIL IS CHAMPSON@CO.CLEAR-CREEK.CO.US. SHE IS WITH THE COUNTY EH.

ACTION:

NOT REPORTED

RESPONSE COMMENTS:

NOT REPORTED

COMMENTS:

CLEAR CREEK COUNTY EH

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Underground Storage Tank Facilities (UST)

[MAP ID# 47](#)

Distance from Property: 0.05 mi. (264 ft.) NW

FACILITY INFORMATION

FACILITY ID: 15075

NAME: TWIN STAR ENERGY #528

ADDRESS: 2911 COLORADO BLVD
IDAHO SPRINGS, CO 80452

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=15075

OWNER INFORMATION

OWNER ID: 22346

NAME: TWIN STAR ENERGY LLC

ADDRESS: 10459 PARK MEADOWS DR
LITTLETON, CO 80124

TANK INFORMATION

TANK ID:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:	INSTALLATION DATE:
33067	UNDERGROUND STORAGE TANK	1 - UNLEADED REGULAR (RUL)	10000	OPEN	NOT REPORTED
33068	UNDERGROUND STORAGE TANK	2 - UNLEADED MID-GRADE (MUL)	10000	OPEN	NOT REPORTED
33069	UNDERGROUND STORAGE TANK	3 - UNLEADED PREMIUM (PUL)	10000	OPEN	NOT REPORTED

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Aboveground Storage Tank Facilities (AST)

[MAP ID# 47](#)

Distance from Property: 0.05 mi. (264 ft.) NW

FACILITY INFORMATION

FACILITY ID: 15075

NAME: TWIN STAR ENERGY #528

ADDRESS: 2911 COLORADO BLVD
IDAHO SPRINGS, CO 80452

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=15075

OWNER INFORMATION

OWNER ID: 22346

NAME: TWIN STAR ENERGY LLC

ADDRESS: 10459 PARK MEADOWS DR
LITTLETON, CO 80124

TANK INFORMATION

TANK ID:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:	INSTALLATION DATE:
36526	LIQUEFIED PETROLEUM GAS -LPG ABOVEGROUND		500	CLOSED	NOT REPORTED
36526	LIQUEFIED PETROLEUM GAS -LPG ABOVEGROUND		500	CLOSED	NOT REPORTED

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Spills Listing (SPILLS)

MAP ID# 47

Distance from Property: 0.05 mi. (264 ft.) NW

INCIDENT INFORMATION

CASE NUMBER: 2011-0627 NRC NUMBER: NOT REPORTED

SPILL DATE: 09/03/11

SPILL LOCATION: 2911 COLORADO BLVD

SPILL CITY/STATE/ZIP: IDAHO SPRINGS, CO 80452

SPILL COUNTY: CLEAR CREEK

RESPONSIBLE PARTY

NAME: MCDONALD'S

ADDRESS: 2911 COLORADO BLVD

IDAHO SPRINGS, CO 80452

COUNTY: CLEAR CREEK

CONTACT: RUDY, MANAGER

PHONE: 303-567-0124

INCIDENT DETAILS

SOURCE: SEWER SYSTEM

SOURCE TYPE: SANITARY SEWER/LIFT STATION

MEDIUM: WATER AND LAND

WATERWAY: STORM DRAIN

CAUSE: FAILURE EQUIPMENT

MATERIAL TYPE: SANITARY SEWER OVERFLOW

MATERIAL DESCRIPTION:

SEWAGE

MATERIAL QUANTITY:

50 UNKNOWN

WATER QUANTITY:

50 U

CAUSE INFORMATION:

LIFT PUMP FOR THE LIFT STATION OWNED BY MCDONALD'S ON THIS PROPERTY NEEDS TO BE REPLACED. THEY HAVE ORDERED A NEW ONE FROM GERMANY. THIS REPORT IS FOR THE THIRD OF 3 SUCH RELEASES. THE AMOUNT OF THIS SECOND RELEASE ON 9/3/11 IS UNKNOWN. SEWAGE DID GO

ACTION:

THE CITY SHUT OFF THE WATER TO THE STORE AND FORCED THEM TO CLOSE FOR THE DAY AFTER THIS RELEASE. THE WATER WAS TURNED BACK ON ON 9/4/11.

RESPONSE COMMENTS:

DOUG CAMRUD WAS GOING TO LOOK INTO THIS AFTER THE FIRST REPORT, 2011-0626, WAS SENT OUT ON 9/6/11.

COMMENTS:

NOT REPORTED

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Spills Listing (SPILLS)

MAP ID# 48

Distance from Property: 0.05 mi. (264 ft.) N

INCIDENT INFORMATION

CASE NUMBER: 2007-0763 NRC NUMBER: NOT REPORTED

SPILL DATE: 09/11/07

SPILL LOCATION: 2000 MINER ST.

SPILL CITY/STATE/ZIP: IDAHO SPRINGS, CO NOT REPORTED

SPILL COUNTY: CLEAR CREEK

RESPONSIBLE PARTY

NAME: CITY OF IDAHO SPRINGS

ADDRESS: 200 COLORADO BLVD.

IDAHO SPRINGS, CO 80452

COUNTY: NOT REPORTED

CONTACT: CAROL MIKAL

PHONE: 303-567-2400

INCIDENT DETAILS

SOURCE: PIPELINE

SOURCE TYPE: WATER LINE

MEDIUM: WATER

WATERWAY: CLEAR CREEK

CAUSE: FAILURE EQUIPMENT

MATERIAL TYPE: POTABLE WATER

MATERIAL DESCRIPTION:
POTABLE WATER

MATERIAL QUANTITY:
18000 GALLONS

WATER QUANTITY:
18000 G

CAUSE INFORMATION:

A WATER MAIN BREAK AT THE ABOVE LISTED LOCATION IS THE RESULT OF POTABLE WATER BEING RELEASED INTO CLEAR CREEK.

ACTION:

WATER MAIN IS BEING REPAIRED. ESTIMATED THAT LINE WILL BE REPAIRED BY 7PM THIS EVENING.

RESPONSE COMMENTS:

ABOUT 150 GALLONS PER MINUTE BEING RELEASED. RELEASE HAS BEEN GOING ON FOR APPROXIMATELY 2 HOURS.

COMMENTS:

NOT REPORTED

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Mineral Resource Data System (MRDS)

MAP ID# 49

Distance from Property: 0.05 mi. (264 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10239456

DEP ID: 10239456

MINE NAME: ELLA TUNNEL

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: ELLA TUNNEL

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 50

Distance from Property: 0.05 mi. (264 ft.) S

FACILITY INFORMATION

GEOSEARCH ID: 10166756

DEP ID: 10166756

MINE NAME: STRIP MINE

ADDRESS: CLEAR CREEK COUNTY
EVERGREEN, CO 80439

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: STRIP MINE

STATUS: CURRENT

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Spills Listing (SPILLS)

MAP ID# 51

Distance from Property: 0.05 mi. (264 ft.) SW

INCIDENT INFORMATION

CASE NUMBER: 2003-356 NRC NUMBER: NOT REPORTED

SPILL DATE: 05/27/03

SPILL LOCATION: STANLEY RD. & TRAIL CREEK RD.-VIOLA MINE CLAIM

SPILL CITY/STATE/ZIP: IDAHO SPRINGS, CO 80452

SPILL COUNTY: CLEAR CREEK

RESPONSIBLE PARTY

NAME: UNKNOWN

ADDRESS: STREET NOT REPORTED
CITY NOT REPORTED, CO

COUNTY: NOT REPORTED

CONTACT: NOT REPORTED

PHONE: NOT REPORTED

INCIDENT DETAILS

SOURCE: FIXED FACILITY

SOURCE TYPE: METH LAB

MEDIUM: LAND

WATERWAY: NOT REPORTED

CAUSE: CRIMINAL INTENT

MATERIAL TYPE: METH LAB

MATERIAL DESCRIPTION:
MEHT LAB

MATERIAL QUANTITY:
NOT REPORTED

WATER QUANTITY:
NOT REPORTED

CAUSE INFORMATION:

CRIMINAL INTENT - MEHT LAB

ACTION:

NONE

RESPONSE COMMENTS:

AREA IS ANOLD MINE TAILING PILE WITH OPEN MINE.

COMMENTS:

APPROXIMATELY ONE YEAR OLD ABANDONED SITE. NO BULK CHEMICALS, FOUND CONTAINERS (EMPTY).

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Leaking Storage Tank Facilities (LST)

[MAP ID# 52](#)

Distance from Property: 0.06 mi. (317 ft.) NW

FACILITY INFORMATION

UNIQUE ID: 6517LST

FACILITY ID: 6517

NAME: AMOCO #5329

ADDRESS: 1319 MINER ST

IDAHO SPRINGS, CO 80452

SITE NAME: AMOCO OIL #5329

LOCATION: 1319 MINER ST
IDAHO SPRINGS 80452

LEAKING INFORMATION

EVENT ID: STATUS: RELEASE DATE:

1944 CLOSED 4/1/1991

ALTERNATE NAME:

AMOCO OIL #5329

COSTIS LINK: http://costis.cdle.state.co.us/event.asp?h_id=1944

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Dry Cleaning Facilities (CLEANERS)

MAP ID# 52

Distance from Property: 0.06 mi. (317 ft.) N

SITE INFORMATION

UNIQUEID: 019-0020CL

FACILITY ID: 019-0020

NAME: WARDROBE CLEANERS

ADDRESS: 1241 MINER ST
IDAHO SPRINGS, CO 80452

CONTACT: CAROLYN KENNEDY

SITE DETAILS

MAKE/MODEL/SERIAL: VALORE/V-300 C-5/30-40-91-4640

CONSTRUCTION PERMIT #: 94CC106.CN

EMISSION UNIT ID: 001

EMISSION UNIT DESCRIPTION: DRY CLEANER.CN

EMISSION PROCESS DESCRIPTION: PERC EMISSIONS

ANNUAL THROUGHPUT: 0 GALLONS SOLVENT CONSUMED

MAKE/MODEL/SERIAL: MARVEL/OP40/4529

CONSTRUCTION PERMIT #: 08CC0337.CN

EMISSION UNIT ID: 002

EMISSION UNIT DESCRIPTION: MULTIMATIC VALORE MACH.CN

EMISSION PROCESS DESCRIPTION: MARVEL TRANSFER MACHNE NTE 500 GALONS DISILITTE

ANNUAL THROUGHPUT: 0 TONS SOLVENT CONSUMED

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Emergency Response Notification System (ERNSCO)

MAP ID# 52

Distance from Property: 0.06 mi. (317 ft.) N

INCIDENT INFORMATION

GSID#: 816505

NRC ID#: 816505

INCIDENT LOCATION: 13TH AND MINOR STREETS

INCIDENT ADDRESS: SHELL GAS STATION 115 13TH STREET
IDAHO SPRINGS, CO

INCIDENT COUNTY: CLEAR CREEK

INCIDENT DETAILS

INCIDENT DATE: 10/27/2006 3:31:00 PM

INCIDENT CAUSE: OPERATOR ERROR

INCIDENT TYPE: FIXED

INCIDENT OCCURED/DISCOVERED: OCCURRED

INCIDENT DESCRIPTION: CALLER STATED THERE WAS A SPILL OF MATERIALS AT A GAS STATION AS A DRIVER DROVE OFF WITH THE PUMP STILL ATTACHED TO THE VEHICLE. THIS RESULTED IN A SPILL OF MATERIALS ONTO THE GROUND.

RESPONSIBLE PARTY

RESPONSIBLE COMPANY: NOT REPORTED

ADDRESS: ADDRESS NOT REPORTED
CITY NOT REPORTED

RESPONSIBLE COMPANY ORGANIZATION TYPE: UNKNOWN

MATERIALS INVOLVED

CHRIS CODE: OTD

MATERIAL REACHED WATER: YES

WATER AMOUNT: 1 GALLON(S)

MATERIAL RELEASED/AMOUNT: OIL, FUEL: NO. 2-D / 15 GALLON(S)

OTHER MATERIALS INVOLVED

- NO OTHER MATERIALS INVOLVED -

REMEDIAL ACTION

REMEDIAL ACTION: CALLER STATED THEY PLACED FLOOR DRY ON THE ISLANDS AROUND THE PUMP. THEY ALSO PLACED BOOM AROUND THE STORM DRAINS, PLACED BOOM INSIDE OF THE IMPACTED STORM DRAIN. THE SPILL HAS BEEN COMPLETELY CLEANED UP AT THIS POINT.

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Emergency Response Notification System (ERNSCO)

MAP ID# 52

Distance from Property: 0.06 mi. (317 ft.) NW

INCIDENT INFORMATION

GSID#: 1000591

NRC ID#: 1000591

INCIDENT LOCATION: COME AND GO STORE

INCIDENT ADDRESS: 1319 MINER STREET
IDAHO SPRINGS, CO

INCIDENT COUNTY: GILPIN

INCIDENT DETAILS

INCIDENT DATE: 1/17/2012 12:50:00 PM

INCIDENT CAUSE: EQUIPMENT FAILURE

INCIDENT TYPE: MOBILE

INCIDENT OCCURED/DISCOVERED: OCCURRED

INCIDENT DESCRIPTION: CALLER STATED WHILE FUELING A STORAGE TANK THE HOSE CONNECTION FAILED. THIS RESULTED IN A SPILL OF GASOLINE.

RESPONSIBLE PARTY

RESPONSIBLE COMPANY: SOLAR TRANSPORT

ADDRESS: ADDRESS NOT REPORTED
WEST DES MOINES IA

RESPONSIBLE COMPANY ORGANIZATION TYPE: PRIVATE ENTERPRISE

MATERIALS INVOLVED

CHRIS CODE: GAS

MATERIAL REACHED WATER: NO

WATER AMOUNT: UNKNOWN AMOUNT / NOT REPORTED

MATERIAL RELEASED/AMOUNT: GASOLINE: AUTOMOTIVE (UNLEADED) / 5 GALLON(S)

OTHER MATERIALS INVOLVED

- NO OTHER MATERIALS INVOLVED -

REMEDIAL ACTION

REMEDIAL ACTION: CALLER STATED THE SPILL WAS CLEANED UP WITH ABSORBENT PADS.

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Hazardous Materials Incident Reporting System (HMIRSR08)

MAP ID# 52

Distance from Property: 0.06 mi. (317 ft.) NW

INCIDENT INFORMATION

REPORT #: I-2012020050

DATE: 01/17/2012

INCIDENT LOCATION:

1319 MINER STREET

IDAHO SPRINGS, CO 80452

CLEAR CREEK

CARRIER INFORMATION

NAME: SOLAR TRANSPORT COMPANY

ADDRESS: 6400 WESTOWN PKWY
WEST DES MOINES, IA 50266

MODE OF TRANSPORTATION: HIGHWAY

TRANSPORTATION PHASE: UNLOADING

COMMODITY DETAILS

IDENTIFICATION NUMBER: UN1203

COMMODITY SHIPPING NAME: GASOLINE

TRADE NAME: BR CONVENTIONAL GASOLINE WITH ETHER

QUANTITY RELEASED: 5 LIQUID - GALLON

PACKAGING: CARGO TANK MOTOR VEHICLE (CTMV)

FAILURE DESCRIPTION

WHAT FAILED: 125 HOSE

HOW FAILED: 308 - LEAKED

FAILURE CAUSE DESCRIPTION:

515 - HUMAN ERROR

DESCRIPTION OF EVENTS:

DRIVER FAILED TO CONNECT HOSE PROPERLY TO DROP ELBOW. HOSE CAME LOOSE DURING DELIVERY. DRIVER STOPPED FLOW & CONTAINED PRODUCT & CLEANED UP.

RECOMMENDATIONS/ACTIONS TAKEN:

DRIVER WILL BE TRAINED TO ENSURE HE CAN DELIVERY PRODUCT WITH OUT SPILLING A DROP.

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Underground Storage Tank Facilities (UST)

MAP ID# 52

Distance from Property: 0.06 mi. (317 ft.) N

FACILITY INFORMATION

FACILITY ID: 2423

NAME: MINER STREET SHELL

ADDRESS: 115 13TH AVE

IDAHO SPRINGS, CO 80452

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=2423

OWNER INFORMATION

OWNER ID: 22663

NAME: KYBRIN ENTERPRISES LTD

ADDRESS: 5128 ARBUTUS ST

ARVADA, CO 80002

TANK INFORMATION

TANK ID:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:	INSTALLATION DATE:
6779	UNDERGROUND STORAGE TANK	1 - UNLEADED REGULAR (RUL)	10000	OPEN	NOT REPORTED
6780	UNDERGROUND STORAGE TANK	4 - DIESEL	6000	OPEN	NOT REPORTED
6781	UNDERGROUND STORAGE TANK	3 - UNLEADED PREMIUM (PUL)	6000	OPEN	NOT REPORTED

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Underground Storage Tank Facilities (UST)

MAP ID# 52

Distance from Property: 0.06 mi. (317 ft.) NW

FACILITY INFORMATION

FACILITY ID: 6517

NAME: AMOCO #5329

ADDRESS: 1319 MINER ST

IDAHO SPRINGS, CO 80452

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=6517

OWNER INFORMATION

OWNER ID: 250

NAME: BP AMERICA

ADDRESS: 501 WESTLAKE PARK BLVD STE 20-109C

HOUSTON, TX 77079

TANK INFORMATION

TANK ID:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:	INSTALLATION DATE:
17349	UNDERGROUND STORAGE TANK	6 - USED OIL (WASTE OIL)	550	CLOSED	NOT REPORTED
17350	UNDERGROUND STORAGE TANK	GASOLINE	8000	CLOSED	NOT REPORTED
17351	UNDERGROUND STORAGE TANK	GASOLINE	10000	CLOSED	NOT REPORTED
17352	UNDERGROUND STORAGE TANK	GASOLINE	10000	CLOSED	NOT REPORTED

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Aboveground Storage Tank Facilities (AST)

[MAP ID# 52](#)

Distance from Property: 0.06 mi. (317 ft.) NW

FACILITY INFORMATION

FACILITY ID: 6517

NAME: AMOCO #5329

ADDRESS: 1319 MINER ST

IDAHO SPRINGS, CO 80452

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=6517

OWNER INFORMATION

OWNER ID: 250

NAME: BP AMERICA

ADDRESS: 501 WESTLAKE PARK BLVD STE 20-109C

HOUSTON, TX 77079

TANK INFORMATION

TANK ID:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:	INSTALLATION DATE:
37777	LIQUEFIED PETROLEUM GAS -LPG ABOVEGROUND		500	CLOSED	NOT REPORTED

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Leaking Storage Tank Facilities (LST)

[MAP ID# 52](#)

Distance from Property: 0.06 mi. (317 ft.) N

FACILITY INFORMATION

UNIQUE ID: 2423LST

FACILITY ID: 2423

NAME: MINER STREET SHELL

ADDRESS: 115 13TH AVE

IDAHO SPRINGS, CO 80452

SITE NAME: MINER STREET BUSINESS CORP

LOCATION: 115 13TH AVE
IDAHO SPRINGS 80452

LEAKING INFORMATION

EVENT ID:

STATUS:

RELEASE DATE:

ALTERNATE NAME:

10237

CLOSED

10/30/2006 13:09

MINER STREET BUSINESS CORP

COSTIS LINK: http://costis.cdle.state.co.us/event.asp?h_id=10237

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Underground Storage Tank Facilities (UST)

MAP ID# 53

Distance from Property: 0.06 mi. (317 ft.) N

FACILITY INFORMATION

FACILITY ID: 18152

NAME: ORPHAN TANK AT MINER STREET

ADDRESS: 1840 MINER ST

IDAHO SPRINGS, CO 80452

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=18152

OWNER INFORMATION

OWNER ID: 20719

NAME: PROPERTY ON MINER STREET

ADDRESS: 1840 MINER ST

IDAHO SPRINGS, CO 80452

TANK INFORMATION

TANK ID:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:	INSTALLATION DATE:
40053	UNDERGROUND STORAGE TANK	NOT REPORTED	500	CLOSED	NOT REPORTED

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Leaking Storage Tank Facilities (LST)

[MAP ID# 53](#)

Distance from Property: 0.06 mi. (317 ft.) N

FACILITY INFORMATION

UNIQUE ID: 18152LST

FACILITY ID: 18152

NAME: ORPHAN TANK AT MINER STREET

ADDRESS: 1840 MINER ST

IDAHO SPRINGS, CO 80452

SITE NAME: ORPHAN TANK AT MINER STREET

LOCATION: 1840 MINER ST
IDAHO SPRINGS 80452

LEAKING INFORMATION

EVENT ID:

STATUS:

RELEASE DATE:

ALTERNATE NAME:

10217

CLOSED

10/6/2006 9:46

ORPHAN TANK AT MINER STREET

COSTIS LINK: http://costis.cdle.state.co.us/event.asp?h_id=10217

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Underground Storage Tank Facilities (UST)

MAP ID# 54

Distance from Property: 0.06 mi. (317 ft.) N

FACILITY INFORMATION

FACILITY ID: 15563
NAME: SILVER CITY AUTOMOTIVE
ADDRESS: 243 COLORADO BLVD
IDAHO SPRINGS, CO 80452

OWNER INFORMATION

OWNER ID: 18653
NAME: SILVER CITY AUTOMOTIVE
ADDRESS: 243 COLORADO BLVD
IDAHO SPRINGS, CO 80452

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=15563

TANK INFORMATION

TANK ID:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:	INSTALLATION DATE:
33927	UNDERGROUND STORAGE TANK	UNKNOWN	2000	CLOSED	NOT REPORTED
33928	UNDERGROUND STORAGE TANK	UNKNOWN	1000	CLOSED	NOT REPORTED
33929	UNDERGROUND STORAGE TANK	7 - LUBE OIL	1000	CLOSED	NOT REPORTED
33930	UNDERGROUND STORAGE TANK	UNKNOWN	1000	CLOSED	NOT REPORTED
33931	UNDERGROUND STORAGE TANK	KEROSENE	1000	CLOSED	NOT REPORTED

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Leaking Storage Tank Facilities (LST)

[MAP ID# 54](#)

Distance from Property: 0.06 mi. (317 ft.) N

FACILITY INFORMATION

UNIQUE ID: 15563LST

FACILITY ID: 15563

NAME: SILVER CITY AUTOMOTIVE

ADDRESS: 243 COLORADO BLVD
IDAHO SPRINGS, CO 80452

SITE NAME: SILVER CITY AUTOMOTIVE

LOCATION: 243 COLORADO BLVD
IDAHO SPRINGS 80452

LEAKING INFORMATION

EVENT ID: STATUS: RELEASE DATE:

8761 CLOSED 10/15/2001

COSTIS LINK: http://costis.cdle.state.co.us/event.asp?h_id=8761

ALTERNATE NAME:

SILVER CITY AUTOMOTIVE

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Spills Listing (SPILLS)

MAP ID# 55

Distance from Property: 0.08 mi. (422 ft.) NW

INCIDENT INFORMATION

CASE NUMBER: 2007-0080 NRC NUMBER: NOT REPORTED

SPILL DATE: 01/24/07

SPILL LOCATION: CLEAR CREEK NEAR I-70/MM 241

SPILL CITY/STATE/ZIP: NOT REPORTED, CO NOT REPORTED

SPILL COUNTY: CLEAR CREEK

RESPONSIBLE PARTY

NAME: IDAHO SPRINGS WATER & SANITATION DISTRICT

ADDRESS: PO BOX 907

IDAHP SPRINGS, CO 80452

COUNTY: CLEAR CREEK

CONTACT: RANDY RASMUSSEN

PHONE: 303-567-2400

INCIDENT DETAILS

SOURCE: PIPELINE

SOURCE TYPE: WATER LINE

MEDIUM: WATER

WATERWAY: CLEAR CREEK

CAUSE: ERROR OPERATOR

MATERIAL TYPE: OTHER

MATERIAL DESCRIPTION:
MUD

MATERIAL QUANTITY:
NOT REPORTED

WATER QUANTITY:
NOT REPORTED

CAUSE INFORMATION:

WHILE DOING MAIN REPAIR AN INCIDENT OCCURRED CAUSING A MUD FLOW INTO CLEAR CREEK.

ACTION:

NOT REPORTED

RESPONSE COMMENTS:

NOT REPORTED

COMMENTS:

NOT REPORTED

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Resource Conservation & Recovery Act - Generator (RCRAGR08)

MAP ID# 55

Distance from Property: 0.06 mi. (317 ft.) NW

FACILITY INFORMATION

EPA ID#: **COD983773581**

NAME: **COLORADO DEPT OF TRANS - IDAHO SPRINGS**

ADDRESS: **1-70 MP 241.05**

IDAHO SPRINGS, CO 80452

CONTACT NAME: **DAVID KILE**

CONTACT ADDRESS: **18500 EAST COLFAX**

AURORA CO 80011

CONTACT PHONE: **303-365-7123**

NON-NOTIFIER: **NOT A NON-NOTIFIER**

DATE RECEIVED BY AGENCY: **2/14/2007**

OWNER TYPE: **STATE**

OWNER NAME: **COLORADO DEPT OF TRANS**

OPERATOR TYPE: **STATE**

OPERATOR NAME: **COLORADO DEPT OF TRANS**

CERTIFICATION

CERTIFICATION NAME:

CERTIFICATION TITLE:

CERTIFICATION SIGNED DATE:

DAVID KILE

MGR

02/09/2007

INDUSTRY CLASSIFICATION (NAICS)

23731 - HIGHWAY, STREET, AND BRIDGE CONSTRUCTION

SITE HISTORY (INCLUDES GENERATORS AND NON-GENERATORS)

DATE RECEIVED BY AGENCY: **2/14/2007**

NAME: **COLORADO DEPT OF TRANS - IDAHO SPRINGS**

GENERATOR CLASSIFICATION: **LARGE QUANTITY GENERATOR**

DESCRIPTION: **LARGE QUANTITY GENERATORS (LQGS) GENERATE 1,000 KILOGRAMS PER MONTH OR MORE OF HAZARDOUS WASTE OR MORE THAN ONE KILOGRAM PER MONTH OF ACUTELY HAZARDOUS WASTE**

DATE RECEIVED BY AGENCY: **5/13/1993**

NAME: **COLORADO DEPT OF HWYS - IDAHO SP**

GENERATOR CLASSIFICATION: **LARGE QUANTITY GENERATOR**

DESCRIPTION: **LARGE QUANTITY GENERATORS (LQGS) GENERATE 1,000 KILOGRAMS PER MONTH OR MORE OF HAZARDOUS WASTE OR MORE THAN ONE KILOGRAM PER MONTH OF ACUTELY HAZARDOUS WASTE**

CURRENT ACTIVITY INFORMATION

GENERATOR STATUS: **CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR** LAST UPDATED DATE: **02/21/2007**

SUBJECT TO CORRECTIVE ACTION UNIVERSE: **NO**

TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: **NO**

TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: **NO**

NON TDSFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: **NO**

CORRECTIVE ACTION WORKLOAD UNIVERSE: **NO**

IMPORTER: **NO**

UNDERGROUND INJECTION: **NO**

MIXED WASTE GENERATOR: **NO**

UNIVERSAL WASTE DESTINATION FACILITY: **NO**

RECYCLER: **NO**

TRANSFER FACILITY: **NO**

TRANSPORTER: **NO**

USED OIL FUEL BURNER: **NO**

ONSITE BURNER EXEMPTION: **NO**

USED OIL PROCESSOR: **NO**

FURNACE EXEMPTION: **NO**

USED OIL FUEL MARKETER TO BURNER: **NO**

USED OIL REFINER: **NO**

SPECIFICATION USED OIL MARKETER: **NO**

Resource Conservation & Recovery Act - Generator (RCRAGR08)

USED OIL TRANSFER FACILITY: **NO**

USED OIL TRANSPORTER: **NO**

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS - **NO EVALUATIONS REPORTED -**

VIOLATIONS - **NO VIOLATIONS REPORTED -**

ENFORCEMENTS - **NO ENFORCEMENTS REPORTED -**

HAZARDOUS WASTE

D001 **IGNITABLE WASTE**
D002 **CORROSIVE WASTE**
D008 **LEAD**
D035 **METHYL ETHYL KETONE**
D039 **TETRACHLOROETHYLENE**

UNIVERSAL WASTE

WASTE TYPE:	ACCUMULATED WASTE ON-SITE:	GENERATED WASTE ON-SITE:	SOURCE TYPE:
NOT REPORTED	NO	NO	NOTIFICATION
BATTERIES	NO	NOT REPORTED	NOTIFICATION
OTHER	NO	NO	NOTIFICATION
LAMPS	NO	NOT REPORTED	NOTIFICATION
MERCURY-CONTAINING DEVICES	NO	NO	NOTIFICATION
PESTICIDES	NO	NOT REPORTED	NOTIFICATION
MERCURY CONTAINING EQUIPMENT	NO	NOT REPORTED	NOTIFICATION

CORRECTIVE ACTION AREA - **NO CORRECTIVE ACTION AREA INFORMATION REPORTED -**

CORRECTIVE ACTION EVENT - **NO CORRECTIVE ACTION EVENT REPORTED -**

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Underground Storage Tank Facilities (UST)

MAP ID# 55

Distance from Property: 0.06 mi. (317 ft.) NW

FACILITY INFORMATION

FACILITY ID: 2923

NAME: CSP - IDAHO SPRINGS #49612

ADDRESS: 3000 COLORADO BLVD
IDAHO SPRINGS, CO 80452

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=2923

OWNER INFORMATION

OWNER ID: 1459

NAME: COLORADO STATE PATROL

ADDRESS: 4201 E ARKANSAS AVE
DENVER, CO 80222

TANK INFORMATION

TANK ID:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:	INSTALLATION DATE:
8025	UNDERGROUND STORAGE TANK	GASOLINE	10000	CLOSED	NOT REPORTED

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Underground Storage Tank Facilities (UST)

MAP ID# 55

Distance from Property: 0.06 mi. (317 ft.) NW

FACILITY INFORMATION

FACILITY ID: 7418

NAME: CDOT IDAHO SPRINGS

ADDRESS: HWY 70 MP 241.05

IDAHO SPRINGS, CO 80452

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=7418

OWNER INFORMATION

OWNER ID: 1050

NAME: CDOT

ADDRESS: 18500 E COLFAX AVE

AURORA, CO 80011

TANK INFORMATION

TANK ID:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:	INSTALLATION DATE:
19566	UNDERGROUND STORAGE TANK	4 - DIESEL	10000	CLOSED	NOT REPORTED
19567	UNDERGROUND STORAGE TANK	6 - USED OIL (WASTE OIL)	500	CLOSED	NOT REPORTED
19568	UNDERGROUND STORAGE TANK	4 - DIESEL	2000	CLOSED	NOT REPORTED
19569	UNDERGROUND STORAGE TANK	6 - USED OIL (WASTE OIL)	500	CLOSED	NOT REPORTED

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Aboveground Storage Tank Facilities (AST)

MAP ID# 55

Distance from Property: 0.06 mi. (317 ft.) NW

FACILITY INFORMATION

FACILITY ID: 1786

NAME: CDOT HIDDEN VALLEY

ADDRESS: I-70 MP 243.20

IDAHO SPRINGS, CO 80452

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=1786

OWNER INFORMATION

OWNER ID: 7606

NAME: CDOT - EISENHOWER TUNNEL

ADDRESS: PO BOX 397

IDAHO SPRINGS, CO 80452

TANK INFORMATION

TANK ID:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:	INSTALLATION DATE:
4998	ABOVEGROUND STORAGE TANK	4 - DIESEL	3000	OPEN	NOT REPORTED

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Aboveground Storage Tank Facilities (AST)

MAP ID# 55

Distance from Property: 0.06 mi. (317 ft.) NW

FACILITY INFORMATION

FACILITY ID: 12340

NAME: CDOT IDAHO SPRINGS CSP

ADDRESS: 3000 COLORADO BLVD
IDAHO SPRINGS, CO 80452

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=12340

OWNER INFORMATION

OWNER ID: NOT REPORTED

NAME: CDOT

ADDRESS: 4201 E ARKANSAS AVE RM 284
DENVER, CO 80222

TANK INFORMATION

TANK ID: TANK TYPE:

TANK PRODUCT:

TANK CAPACITY: TANK STATUS:

INSTALLATION DATE:

NR NOT REPORTED

NOT REPORTED

NOT REPORTED NOT REPORTED

NOT REPORTED

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Leaking Storage Tank Facilities (LST)

MAP ID# 55

Distance from Property: 0.06 mi. (317 ft.) NW

FACILITY INFORMATION

UNIQUE ID: 7418LST

FACILITY ID: 7418

NAME: CDOT IDAHO SPRINGS

ADDRESS: 2931 COLORADO BLVD

N SIDE HWY 70A MP 241.05

IDAHO SPRINGS, CO 80452

SITE NAME: CDOT IDAHO SPRINGS

LOCATION: 2931 COLORADO BLVD

N SIDE HWY 70A MP 241.05
IDAHO SPRINGS 80452

LEAKING INFORMATION

EVENT ID: STATUS: RELEASE DATE:

3341 CLOSED 10/18/1991

COSTIS LINK: http://costis.cdle.state.co.us/event.asp?h_id=3341

ALTERNATE NAME:

CDOT IDAHO SPRINGS

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Spills Listing (SPILLS)

MAP ID# 56

Distance from Property: 0.08 mi. (422 ft.) N

INCIDENT INFORMATION

CASE NUMBER: 2006-1017 NRC NUMBER: NOT REPORTED

SPILL DATE: 10/27/06

SPILL LOCATION: 1300 MINOR STREET

SPILL CITY/STATE/ZIP: IDAHO SPRINGS, CO NOT REPORTED

SPILL COUNTY: CLEAR CREEK

RESPONSIBLE PARTY

NAME: SHELL GAS STATION

ADDRESS: 1300 MINER STREET
IDAHO SPRINGS, CO

COUNTY: CLEAR CREEK

CONTACT: NOT REPORTED

PHONE: NOT REPORTED

INCIDENT DETAILS

SOURCE: UNDER GROUND STORAGE TANK

SOURCE TYPE: GAS PUMP/GAS STATION

MEDIUM: WATER

WATERWAY: CLEAR CREEK

CAUSE: FAILURE EQUIPMENT

MATERIAL TYPE: OIL

MATERIAL DESCRIPTION:
GASOLINE

MATERIAL QUANTITY:
40 GALLONS

WATER QUANTITY:
20 G

CAUSE INFORMATION:

NOT REPORTED

ACTION:

THE RELEASE WENT INTO THE STORM DRAIN AND THE FIRE DEPARTMENT WAS ABLE TO PREVENT ABOUT HAVE OF THE RELEASE FROM GOING INTO THE STORM DRAIN. DOWNSTREAM USERS HAVE BEEN NOTIFIED.

RESPONSE COMMENTS:

NOT REPORTED

COMMENTS:

FIRE CHIEF KELLY BABEON MAY BE CONTACTED FOR MORE INFORMATION WHEN HE IS BACK IN HIS OFFICE. HIS OF

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Underground Storage Tank Facilities (UST)

MAP ID# 56

Distance from Property: 0.06 mi. (317 ft.) NW

FACILITY INFORMATION

FACILITY ID: 18798

NAME: KUM & GO #975

ADDRESS: 1319 MINER ST

IDAHO SPRINGS, CO 80452

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=18798

OWNER INFORMATION

OWNER ID: 991

NAME: KUM & GO LC

ADDRESS: 6400 WESTOWN PKWY

WEST DES MOINES, IA 50266

TANK INFORMATION

TANK ID:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:	INSTALLATION DATE:
41976	UNDERGROUND STORAGE TANK	9 - GAS/GAS (MULTI-COMP)	20000	OPEN	NOT REPORTED
41977	UNDERGROUND STORAGE TANK	8 - DIESEL/GAS (MULTI-COMP)	20000	OPEN	NOT REPORTED
41978	UNDERGROUND STORAGE TANK	1 - UNLEADED REGULAR (RUL)	8000	OPEN	NOT REPORTED

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Leaking Storage Tank Facilities (LST)

MAP ID# 56

Distance from Property: 0.06 mi. (317 ft.) NW

FACILITY INFORMATION

UNIQUE ID: 18798LST

FACILITY ID: 18798

NAME: KUM & GO #975

ADDRESS: 1359 MINER ST

IDAHO SPRINGS, CO 80452

SITE NAME: KUM & GO #975

LOCATION: 1359 MINER ST
IDAHO SPRINGS 80452

LEAKING INFORMATION

EVENT ID:	STATUS:	RELEASE DATE:	ALTERNATE NAME:
12417	CLOSED	1/11/2016 10:40	KUM & GO #975
COSTIS LINK:	http://costis.cdle.state.co.us/event.asp?h_id=12417		
10897	CLOSED	8/7/2009 12:01	KUM & GO #975
COSTIS LINK:	http://costis.cdle.state.co.us/event.asp?h_id=10897		

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Spills Listing (SPILLS)

[MAP ID# 57](#)

Distance from Property: 0.06 mi. (317 ft.) N

INCIDENT INFORMATION

CASE NUMBER: 2017-0030 NRC NUMBER: NOT REPORTED

SPILL DATE: 1/13/2017

SPILL LOCATION: 2631 COLORADO BLVD

SPILL CITY/STATE/ZIP: IDAHO SPRINGS, CO 80452

SPILL COUNTY: CLEAR CREEK

RESPONSIBLE PARTY

NAME: IDAHO SPRINGS MOTEL

ADDRESS: 2631 COLORADO BLVD

IDAHO SPRINGS, CO 80452

COUNTY: NOT REPORTED

CONTACT: UNKNOWN

PHONE: 303-567-2242

INCIDENT DETAILS

SOURCE: SEWER SYSTEM

SOURCE TYPE: SANITARY SEWER/LIFT STATION

MEDIUM: LAND

WATERWAY: STREET GUTTERS

CAUSE: UNKNOWN

MATERIAL TYPE: SANITARY SEWER OVERFLOW

MATERIAL DESCRIPTION:
SEWAGE

MATERIAL QUANTITY:
NOT REPORTED

WATER QUANTITY:
NOT REPORTED

CAUSE INFORMATION:

DUE TO UNKNOWN CAUSE, SEWAGE HAS BEEN BACKING UP INTO THE STREETS AND HAS FROZEN. THE WATER WAS TURNED OFF. REPORTEDLY THE MAYOR IS WORKING WITH PUBLIC WORKS ON THIS SPILL RESPONSE. NO SPECIFIC MENTION WAS MADE OF IMPACTS TO THE STORM DRAINS, BUT IT SEEMS POSSIBLE THAT THE GUTTERS OF THE STREETS WOULD HAVE BEEN IMPACTED.

ACTION:

NOT REPORTED

RESPONSE COMMENTS:

NOT REPORTED

COMMENTS:

CLEAR CREEK EH

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Aboveground Storage Tank Facilities (AST)

MAP ID# 58

Distance from Property: 0.08 mi. (422 ft.) NW

FACILITY INFORMATION

FACILITY ID: 17472

NAME: BLUE RIBBON TIRE

ADDRESS: MINER & COLORADO BLVD
IDAHO SPRINGS, CO 80452

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=17472

OWNER INFORMATION

OWNER ID: 19523

NAME: LPG UNKNOWN OWNER

ADDRESS: DIVISION OF OIL & PUBLIC SAFETY
DENVER, CO 80202

TANK INFORMATION

TANK ID:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:	INSTALLATION DATE:
38232	LIQUEFIED PETROLEUM GAS	LPG	0	CLOSED	NOT REPORTED

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Underground Storage Tank Facilities (UST)

MAP ID# 58

Distance from Property: 0.06 mi. (317 ft.) NW

FACILITY INFORMATION

FACILITY ID: 2287
NAME: IDAHO SPRINGS SUNMART #501
ADDRESS: 2833 COLORADO BLVD
IDAHO SPRINGS, CO 80452

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=2287

OWNER INFORMATION

OWNER ID: 4160
NAME: PETROLEUM WHOLESALE LP
ADDRESS: 8550 TECHNOLOGY FORREST
SPRING, TX 77381

TANK INFORMATION

TANK ID:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:	INSTALLATION DATE:
6425	UNDERGROUND STORAGE TANK	GASOLINE	6000	CLOSED	NOT REPORTED
6426	UNDERGROUND STORAGE TANK	GASOLINE	6000	CLOSED	NOT REPORTED
6427	UNDERGROUND STORAGE TANK	GASOLINE	6000	CLOSED	NOT REPORTED

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Aboveground Storage Tank Facilities (AST)

MAP ID# 59

Distance from Property: 0.06 mi. (317 ft.) S

FACILITY INFORMATION

FACILITY ID: 16844

NAME: CAMAS

ADDRESS: 1039 IDAHO SPRINGS E RD
IDAHO SPRINGS, CO 80452

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=16844

OWNER INFORMATION

OWNER ID: 19523

NAME: LPG UNKNOWN OWNER

ADDRESS: DIVISION OF OIL & PUBLIC SAFETY
DENVER, CO 80202

TANK INFORMATION

TANK ID:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:	INSTALLATION DATE:
36825	LIQUEFIED PETROLEUM GAS -LPG ABOVEGROUND		2500	CLOSED	NOT REPORTED

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Mineral Resource Data System (MRDS)

MAP ID# 60

Distance from Property: 0.06 mi. (317 ft.) NW

FACILITY INFORMATION

GEOSEARCH ID: 10214550

DEP ID: 10214550

MINE NAME: CALIFORNIA TUNNEL

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: CALIFORNIA TUNNEL

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 61

Distance from Property: 0.06 mi. (317 ft.) W

FACILITY INFORMATION

GEOSEARCH ID: 10264313

DEP ID: 10264313

MINE NAME: ANOKA COUNTY

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: LEAD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: LEAD

IMPORTANCE: SECONDARY

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: ANOKA COUNTY

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 62

Distance from Property: 0.06 mi. (317 ft.) SW

FACILITY INFORMATION

GEOSEARCH ID: 10287099

DEP ID: 10287099

MINE NAME: MC MICKLE

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: MC MICKLE

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 63

Distance from Property: 0.06 mi. (317 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10214210

DEP ID: 10214210

MINE NAME: LAWRENCE L.

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

COMMODITY: COPPER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: COPPER

IMPORTANCE: SECONDARY

COMMODITY: LEAD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: LEAD

IMPORTANCE: SECONDARY

COMMODITY: ZINC

COMMODITY TYPE: METALLIC

COMMODITY GROUP: ZINC

IMPORTANCE: SECONDARY

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

MATERIAL DETAILS

MATERIAL: SPHALERITE

ORE OR GANGUE: ORE

MATERIAL: GALENA

ORE OR GANGUE: ORE

MATERIAL: TENNANTITE

ORE OR GANGUE: ORE

Mineral Resource Data System (MRDS)

MATERIAL: **PYRITE**
ORE OR GANGUE: **ORE**

MATERIAL: **QUARTZ**
ORE OR GANGUE: **GANGUE**

NAME DETAILS

SITE NAME: **LAWRENCE L.**
STATUS: **CURRENT**

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Mineral Resource Data System (MRDS)

MAP ID# 64

Distance from Property: 0.06 mi. (317 ft.) S

FACILITY INFORMATION

GEOSEARCH ID: 10190241

DEP ID: 10190241

MINE NAME: CLEVELAND-SILVERWING

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: LEAD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: LEAD

IMPORTANCE: TERTIARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: CLEVELAND-SILVERWING

STATUS: CURRENT

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Underground Storage Tank Facilities (UST)

MAP ID# 65

Distance from Property: 0.07 mi. (370 ft.) SW

FACILITY INFORMATION

FACILITY ID: 19749

NAME: MOUNTAIN GATEWAY CENTER

ADDRESS: 2195 E IDAHO SPRINGS RD
IDAHO SPRINGS, CO 80452

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=19749

OWNER INFORMATION

OWNER ID: 22677

NAME: MOUNTAIN GATEWAY CENTER

ADDRESS: 65 HIDEAWAY CIRCLE RD
EVERGREEN, CO 80439

TANK INFORMATION

TANK ID:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:	INSTALLATION DATE:
45810	UNDERGROUND STORAGE TANK	1 - UNLEADED REGULAR (RUL)	15000	OPEN	NOT REPORTED
45811	UNDERGROUND STORAGE TANK	8 - DIESEL/GAS (MULTI-COMP)	15000	OPEN	NOT REPORTED

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Aboveground Storage Tank Facilities (AST)

MAP ID# 65

Distance from Property: 0.07 mi. (370 ft.) SW

FACILITY INFORMATION

FACILITY ID: 18985

NAME: POLAR GAS

ADDRESS: 2195 E IDAHO SPRINGS RD
IDAHO SPRINGS, CO 80452

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=18985

OWNER INFORMATION

OWNER ID: 19647

NAME: POLAR GAS FRONT RANGE LLC

ADDRESS: PO BOX 187
BRIGHTON, CO 80601

TANK INFORMATION

TANK ID:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:	INSTALLATION DATE:
42493	LIQUEFIED PETROLEUM GAS -LPG ABOVEGROUND - BULK		30000	OPEN	NOT REPORTED
42949	LIQUEFIED PETROLEUM GAS -LPG ABOVEGROUND		500	OPEN	NOT REPORTED
44247	LIQUEFIED PETROLEUM GAS -LPG TRUCK		0	OPEN	NOT REPORTED

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Spills Listing (SPILLS)

MAP ID# 65

Distance from Property: 0.07 mi. (370 ft.) SW

INCIDENT INFORMATION

CASE NUMBER: 2015-0122 NRC NUMBER: NOT REPORTED

SPILL DATE: 01/03/15

SPILL LOCATION: 2195 E. IDAHO SPRINGS RD, NOT REALLY IN IDAHO SPRINGS

SPILL CITY/STATE/ZIP: NOT REPORTED, CO NOT REPORTED

SPILL COUNTY: CLEAR CREEK

RESPONSIBLE PARTY

NAME: COUNTRY STORE

ADDRESS: 2195 E. IDAHO SPRINGS RD
IDAHO SPRINGS, CO

COUNTY: NOT REPORTED

CONTACT: JOHN LAMOS

PHONE: NOT REPORTED

INCIDENT DETAILS

SOURCE: UNKNOWN

SOURCE TYPE: GROUNDWATER

MEDIUM: WATER

WATERWAY: NOT REPORTED

CAUSE: OTHER

MATERIAL TYPE: OTHER

MATERIAL DESCRIPTION:
RADIUM IN DRINKING WATER

MATERIAL QUANTITY:
NOT REPORTED

WATER QUANTITY:
NOT REPORTED

CAUSE INFORMATION:

THE FOLLOWING IS PER THE REPORT OF AN ANONYMOUS, BUT VERY CONCERNED, CITIZEN. NEAR THE BEGINNING OF THE YEAR ED SMITH, WHO ALSO OWNS WILD CARD CASINO, BOUGHT THIS COMPLEX OF OFFICES/UNITS. HE WAS THINKING OF OPENING A CONVENIENCE STORE AND GAS STATION, SO HE HAD THE DRINKING WATER TESTED. PER REPORT, THE WATER WAS HIGHER THAN THE FEDERAL LIMIT FOR RADIUM. CALLER STATES THAT MR. SMITH TOLD JOHN LAMOS, WHO RUNS THE COUNTY STORE, THAT HE COULD NOT USE THE TAP WATER TO MAKE COFFEE THAT HE SELLS TO THE PUBLIC. MR. LAMOS WAS ADVISED TO USE BOTTLED WATER. MR. LAMOS REPORTEDLY BROUGHT IN 3 5-GALLON BOTTLES OF WATER AND SAT THEM ON THE FLOOR BY THE TAP WATER OUTLET. HE DID NOT USE ANY OF THE BOTTLED WATER. IN ADDITION, THERE IS NO CHLORINATION FOR THE TAP WATER. THERE IS A BOTTLE OF BLEACH IN THE AREA OF THE TAP.

ACTION:

NOT REPORTED

RESPONSE COMMENTS:

NOT REPORTED

COMMENTS:

CLEAR CREEK COUNTY EH: CINDY DICKEN, WENDY TROGDON, CHARLOTTE HAMPSON, MEAGAN LEWIS, KATHLEEN KREBS

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Aboveground Storage Tank Facilities (AST)

[MAP ID# 66](#)

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

FACILITY ID: 16767

NAME: AMERIGAS

ADDRESS: 1221 CR 3088

DOWNIEVILLE, CO 80436

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=16767

OWNER INFORMATION

OWNER ID: 20543

NAME: AMERIGAS PROPANE LP

ADDRESS: PO BOX 965

VALLEY FORGE, PA 19482

TANK INFORMATION

TANK ID:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:	INSTALLATION DATE:
36734	LIQUEFIED PETROLEUM GAS -LPG ABOVEGROUND - BULK		18000	OPEN	NOT REPORTED

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Aboveground Storage Tank Facilities (AST)

MAP ID# 67

Distance from Property: 0.07 mi. (370 ft.) S

FACILITY INFORMATION

FACILITY ID: 16408

NAME: FERRELLGAS

ADDRESS: 1 FERRELL WAY

IDAHO SPRINGS, CO 80452

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=16408

OWNER INFORMATION

OWNER ID: 720

NAME: FERRELLGAS INC

ADDRESS: 1 LIBERTY PLAZA

LIBERTY, MO 64068

TANK INFORMATION

TANK ID:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:	INSTALLATION DATE:
36053	LIQUEFIED PETROLEUM GAS -LPG ABOVEGROUND - BULK		30000	OPEN	NOT REPORTED
36950	LIQUEFIED PETROLEUM GAS -LPG ABOVEGROUND		1000	OPEN	NOT REPORTED
43072	LIQUEFIED PETROLEUM GAS -LPG TRUCK		0	OPEN	NOT REPORTED

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10263971

DEP ID: 10263971

MINE NAME: F & C

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: F & C

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10117208

DEP ID: 10117208

MINE NAME: THEOBOLD PLACER

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: THEOBOLD PLACER

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10214338

DEP ID: 10214338

MINE NAME: EUROPEAN

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: LEAD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: LEAD

IMPORTANCE: TERTIARY

COMMODITY: COPPER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: COPPER

IMPORTANCE: TERTIARY

COMMODITY: ZINC

COMMODITY TYPE: METALLIC

COMMODITY GROUP: ZINC

IMPORTANCE: TERTIARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: EUROPEAN

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10166620

DEP ID: 10166620

MINE NAME: PARK GROUP

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: PARK GROUP

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10166905

DEP ID: 10166905

MINE NAME: INGRAM

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: INGRAM

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10190689

DEP ID: 10190689

MINE NAME: ORPHAN

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: LEAD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: LEAD

IMPORTANCE: TERTIARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: ORPHAN

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10166668

DEP ID: 10166668

MINE NAME: JESSICA

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

COMMODITY: ZINC

COMMODITY TYPE: METALLIC

COMMODITY GROUP: ZINC

IMPORTANCE: TERTIARY

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: LEAD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: LEAD

IMPORTANCE: TERTIARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: JESSICA

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10190661

DEP ID: 10190661

MINE NAME: CADDO

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: CADDO

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10287152

DEP ID: 10287152

MINE NAME: LUCKY GOLD

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: LUCKY GOLD

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10166957

DEP ID: 10166957

MINE NAME: PARKER PLACER

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: PARKER PLACER

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10263634

DEP ID: 10263634

MINE NAME: GOLD MEDAL

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

COMMODITY: LEAD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: LEAD

IMPORTANCE: TERTIARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: GOLD MEDAL

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10142402

DEP ID: 10142402

MINE NAME: NORTH AMERICA

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: LEAD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: LEAD

IMPORTANCE: TERTIARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: NORTH AMERICA

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10141267

DEP ID: 10141267

MINE NAME: BECKY SHARP

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

COMMODITY: COPPER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: COPPER

IMPORTANCE: TERTIARY

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: BECKY SHARP

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10214512

DEP ID: 10214512

MINE NAME: IRON KING

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: COPPER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: COPPER

IMPORTANCE: TERTIARY

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: LEAD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: LEAD

IMPORTANCE: TERTIARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

COMMODITY: ZINC

COMMODITY TYPE: METALLIC

COMMODITY GROUP: ZINC

IMPORTANCE: TERTIARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: IRON KING

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10264189

DEP ID: 10264189

MINE NAME: MENDIC

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: MENDIC

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10117343

DEP ID: 10117343

MINE NAME: DIXIE MILL

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: LEAD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: LEAD

IMPORTANCE: TERTIARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: DIXIE MILL

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10190377

DEP ID: 10190377

MINE NAME: DANIEL PETERS

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: LEAD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: LEAD

IMPORTANCE: TERTIARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: PRIMARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: DANIEL PETERS

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10263909

DEP ID: 10263909

MINE NAME: CARDWELL

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: CARDWELL

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10264052

DEP ID: 10264052

MINE NAME: CODDING MILL

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: CODDING MILL

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10287388

DEP ID: 10287388

MINE NAME: FLOYD HILL

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: FLOYD HILL

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10167076

DEP ID: 10167076

MINE NAME: **NEGLECTED**

ADDRESS: **CLEAR CREEK COUNTY**

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: **PAST PRODUCER**

COMMODITY DETAILS

COMMODITY: **GOLD**

COMMODITY TYPE: **METALLIC**

COMMODITY GROUP: **GOLD**

IMPORTANCE: **PRIMARY**

COMMODITY: **LEAD**

COMMODITY TYPE: **METALLIC**

COMMODITY GROUP: **LEAD**

IMPORTANCE: **TERTIARY**

COMMODITY: **SILVER**

COMMODITY TYPE: **METALLIC**

COMMODITY GROUP: **SILVER**

IMPORTANCE: **TERTIARY**

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: **NEGLECTED**

STATUS: **CURRENT**

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10214599

DEP ID: 10214599

MINE NAME: OCEAN QUEEN

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: OCEAN QUEEN

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10287097

DEP ID: 10287097

MINE NAME: GRASS VALLEY

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: GRASS VALLEY

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10190448

DEP ID: 10190448

MINE NAME: YELLOW METALS & FORTUNE

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: COPPER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: COPPER

IMPORTANCE: TERTIARY

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: YELLOW METALS & FORTUNE

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10190245

DEP ID: 10190245

MINE NAME: SILVER JIM

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: COPPER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: COPPER

IMPORTANCE: TERTIARY

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: LEAD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: LEAD

IMPORTANCE: TERTIARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

COMMODITY: ZINC

COMMODITY TYPE: METALLIC

COMMODITY GROUP: ZINC

IMPORTANCE: TERTIARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: SILVER JIM

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10117158

DEP ID: 10117158

MINE NAME: **WHITEWATER**

ADDRESS: **CLEAR CREEK COUNTY**

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: **PAST PRODUCER**

COMMODITY DETAILS

COMMODITY: **SAND AND GRAVEL, CONS**

COMMODITY TYPE: **NON-METALLIC**

COMMODITY GROUP: **SAND AND GRAVEL**

IMPORTANCE: **PRIMARY**

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: **WHITEWATER**

STATUS: **CURRENT**

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10142193

DEP ID: 10142193

MINE NAME: KENNEDY GROUP

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: COPPER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: COPPER

IMPORTANCE: TERTIARY

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: KENNEDY GROUP

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10214381

DEP ID: 10214381

MINE NAME: GILLESPIE GROUP

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: COPPER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: COPPER

IMPORTANCE: TERTIARY

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: GILLESPIE GROUP

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10141370

DEP ID: 10141370

MINE NAME: COLLOM

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: COLLOM

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10287921

DEP ID: 10287921

MINE NAME: TRAIL CREEK MILL

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: LEAD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: LEAD

IMPORTANCE: TERTIARY

COMMODITY: ZINC

COMMODITY TYPE: METALLIC

COMMODITY GROUP: ZINC

IMPORTANCE: TERTIARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: TRAIL CREEK MILL

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10190498

DEP ID: 10190498

MINE NAME: POTOSI

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: POTOSI

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10214525

DEP ID: 10214525

MINE NAME: GEYSER

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: LEAD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: LEAD

IMPORTANCE: TERTIARY

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: COPPER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: COPPER

IMPORTANCE: TERTIARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

COMMODITY: ZINC

COMMODITY TYPE: METALLIC

COMMODITY GROUP: ZINC

IMPORTANCE: TERTIARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: GEYSER

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10263672

DEP ID: 10263672

MINE NAME: LITTLE UTE

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: LITTLE UTE

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10117494

DEP ID: 10117494

MINE NAME: NEW ERA PLACER

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: NEW ERA PLACER

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10264197

DEP ID: 10264197

MINE NAME: ROOTE RANCH

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: URANIUM

COMMODITY TYPE: METALLIC

COMMODITY GROUP: URANIUM

IMPORTANCE: PRIMARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: ROOTE RANCH

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10117229

DEP ID: 10117229

MINE NAME: LONE STAR

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: URANIUM

COMMODITY TYPE: METALLIC

COMMODITY GROUP: URANIUM

IMPORTANCE: PRIMARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: LONE STAR

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10239701

DEP ID: 10239701

MINE NAME: HIDDEN DIAMOND

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: HIDDEN DIAMOND

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10214352

DEP ID: 10214352

MINE NAME: LA CLIDE

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: LA CLIDE

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10287673

DEP ID: 10287673

MINE NAME: ROYAL ANN

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: ROYAL ANN

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10141379

DEP ID: 10141379

MINE NAME: BLACK SQUIRREL

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: BLACK SQUIRREL

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10263696

DEP ID: 10263696

MINE NAME: EAGEN

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: EAGEN

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10287591

DEP ID: 10287591

MINE NAME: RENSHAW-MILLER

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: RENSHAW-MILLER

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10117354

DEP ID: 10117354

MINE NAME: J.A.M.

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: J.A.M.

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10117508

DEP ID: 10117508

MINE NAME: CORBETT

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: LEAD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: LEAD

IMPORTANCE: TERTIARY

COMMODITY: COPPER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: COPPER

IMPORTANCE: TERTIARY

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: CORBETT

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10214211

DEP ID: 10214211

MINE NAME: REFUGEE GROUP

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: LEAD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: LEAD

IMPORTANCE: TERTIARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: PRIMARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: REFUGEE GROUP

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10287426

DEP ID: 10287426

MINE NAME: GILT EDGE

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: GILT EDGE

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10190210

DEP ID: 10190210

MINE NAME: LAKE WEST

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: LEAD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: LEAD

IMPORTANCE: PRIMARY

COMMODITY: ZINC

COMMODITY TYPE: METALLIC

COMMODITY GROUP: ZINC

IMPORTANCE: TERTIARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: LAKE WEST

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10263745

DEP ID: 10263745

MINE NAME: RENSHAW-MOSHER

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: RENSHAW-MOSHER

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10264288

DEP ID: 10264288

MINE NAME: SILVER CYCLE

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: COPPER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: COPPER

IMPORTANCE: TERTIARY

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: LEAD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: LEAD

IMPORTANCE: TERTIARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

COMMODITY: ZINC

COMMODITY TYPE: METALLIC

COMMODITY GROUP: ZINC

IMPORTANCE: TERTIARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: SILVER CYCLE

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10117384

DEP ID: 10117384

MINE NAME: M.E.

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: M.E.

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10166520

DEP ID: 10166520

MINE NAME: ONEIDA

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: COPPER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: COPPER

IMPORTANCE: TERTIARY

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: LEAD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: LEAD

IMPORTANCE: TERTIARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: ONEIDA

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10214681

DEP ID: 10214681

MINE NAME: TOLLAND COUNTY

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: TOLLAND COUNTY

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10287345

DEP ID: 10287345

MINE NAME: NEW HOPE

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: NEW HOPE

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10264050

DEP ID: 10264050

MINE NAME: MADISON

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: MADISON

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10239659

DEP ID: 10239659

MINE NAME: KEAST TUNNEL

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: LEAD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: LEAD

IMPORTANCE: TERTIARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

COMMODITY: ZINC

COMMODITY TYPE: METALLIC

COMMODITY GROUP: ZINC

IMPORTANCE: TERTIARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: KEAST TUNNEL

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10167121

DEP ID: 10167121

MINE NAME: RED LION

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: RED LION

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10117444

DEP ID: 10117444

MINE NAME: HIGHLANDER

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: LEAD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: LEAD

IMPORTANCE: PRIMARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: HIGHLANDER

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10166395

DEP ID: 10166395

MINE NAME: MARGUERITE B

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: LEAD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: LEAD

IMPORTANCE: TERTIARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: MARGUERITE B

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10287356

DEP ID: 10287356

MINE NAME: ILLINOIS BAR

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: ILLINOIS BAR

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10287552

DEP ID: 10287552

MINE NAME: LITTLE BOSS

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: LITTLE BOSS

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10117604

DEP ID: 10117604

MINE NAME: EXTENSION NO.2

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: EXTENSION NO.2

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10141739

DEP ID: 10141739

MINE NAME: BOAT

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: BOAT

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10190026

DEP ID: 10190026

MINE NAME: SILVER GEM

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: SILVER GEM

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10288242

DEP ID: 10288242

MINE NAME: TRISHA LEE TUNNEL

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: COPPER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: COPPER

IMPORTANCE: TERTIARY

COMMODITY: URANIUM

COMMODITY TYPE: METALLIC

COMMODITY GROUP: URANIUM

IMPORTANCE: PRIMARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: TRISHA LEE TUNNEL

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10287249

DEP ID: 10287249

MINE NAME: BRAUN

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: BRAUN

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10214838

DEP ID: 10214838

MINE NAME: JACKSON MILL

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: LEAD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: LEAD

IMPORTANCE: TERTIARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: JACKSON MILL

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10166467

DEP ID: 10166467

MINE NAME: TUNNEL LODE #3

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: TUNNEL LODE #3

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10190166

DEP ID: 10190166

MINE NAME: METALS TUNNEL

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: METALS TUNNEL

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10263990

DEP ID: 10263990

MINE NAME: RAYMOND P HEON

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: RAYMOND P.HEON

STATUS: PREVIOUS

SITE NAME: RAYMOND P HEON

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10190469

DEP ID: 10190469

MINE NAME: MARRY

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: MARRY

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10263738

DEP ID: 10263738

MINE NAME: FLORENCE

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: LEAD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: LEAD

IMPORTANCE: TERTIARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: FLORENCE

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10264024

DEP ID: 10264024

MINE NAME: SILVER SPRUCE

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

COMMODITY: ZINC

COMMODITY TYPE: METALLIC

COMMODITY GROUP: ZINC

IMPORTANCE: TERTIARY

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: LEAD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: LEAD

IMPORTANCE: TERTIARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: SILVER SPRUCE

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10166969

DEP ID: 10166969

MINE NAME: K.K.K.

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: COPPER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: COPPER

IMPORTANCE: TERTIARY

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: K.K.K.

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10117346

DEP ID: 10117346

MINE NAME: DESIGN

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: DESIGN

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10239229

DEP ID: 10239229

MINE NAME: MATTIE

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: LEAD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: LEAD

IMPORTANCE: TERTIARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: MATTIE

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10239117

DEP ID: 10239117

MINE NAME: LALLA

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: LALLA

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10142358

DEP ID: 10142358

MINE NAME: WYOMING VALLEY TUNNEL

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: COPPER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: COPPER

IMPORTANCE: TERTIARY

COMMODITY: LEAD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: LEAD

IMPORTANCE: TERTIARY

COMMODITY: ZINC

COMMODITY TYPE: METALLIC

COMMODITY GROUP: ZINC

IMPORTANCE: TERTIARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: WYOMING VALLEY TUNNEL

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10214730

DEP ID: 10214730

MINE NAME: TAMASOA

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: LEAD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: LEAD

IMPORTANCE: TERTIARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: TAMASOA

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10142227

DEP ID: 10142227

MINE NAME: LILY

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: COPPER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: COPPER

IMPORTANCE: TERTIARY

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: LILY

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10239844

DEP ID: 10239844

MINE NAME: DIERKS

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: DIERKS

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10239185

DEP ID: 10239185

MINE NAME: JOSEPH A.HORN

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: JOSEPH A.HORN

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10190209

DEP ID: 10190209

MINE NAME: CLEAR CREEK GOLD

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: CLEAR CREEK GOLD

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10117468

DEP ID: 10117468

MINE NAME: GOLD GLEN

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: GOLD GLEN

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10263709

DEP ID: 10263709

MINE NAME: TROPIC

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: TROPIC

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10263750

DEP ID: 10263750

MINE NAME: SWEET HOME

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: SWEET HOME

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10239558

DEP ID: 10239558

MINE NAME: LENA

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: LEAD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: LEAD

IMPORTANCE: TERTIARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: LENA

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10142778

DEP ID: 10142778

MINE NAME: MARY D. RAYMOND

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: COPPER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: COPPER

IMPORTANCE: TERTIARY

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

COMMODITY: ZINC

COMMODITY TYPE: METALLIC

COMMODITY GROUP: ZINC

IMPORTANCE: TERTIARY

COMMODITY: LEAD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: LEAD

IMPORTANCE: TERTIARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: MARY D. RAYMOND

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10142649

DEP ID: 10142649

MINE NAME: GEM CONSOLIDATED

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: COPPER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: COPPER

IMPORTANCE: TERTIARY

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: LEAD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: LEAD

IMPORTANCE: TERTIARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: GEM CONSOLIDATED

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10214661

DEP ID: 10214661

MINE NAME: HONEST JOHN

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: LEAD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: LEAD

IMPORTANCE: TERTIARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: ZINC

COMMODITY TYPE: METALLIC

COMMODITY GROUP: ZINC

IMPORTANCE: TERTIARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: HONEST JOHN

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10287712

DEP ID: 10287712

MINE NAME: BELGIAN HARE

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: BELGIAN HARE

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10190755

DEP ID: 10190755

MINE NAME: GOLD PIT

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: GOLD PIT

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10238545

DEP ID: 10238545

MINE NAME: B&I NO.1

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: B&I NO.1

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10117183

DEP ID: 10117183

MINE NAME: NEPTUNE

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: NEPTUNE

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10214798

DEP ID: 10214798

MINE NAME: KING CYRUS

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: KING CYRUS

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10214267

DEP ID: 10214267

MINE NAME: WHALE

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: WHALE

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10190621

DEP ID: 10190621

MINE NAME: SCHLEY

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: COPPER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: COPPER

IMPORTANCE: TERTIARY

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: LEAD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: LEAD

IMPORTANCE: TERTIARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: SCHLEY

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10117643

DEP ID: 10117643

MINE NAME: QUEEN ELIZABETH

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: QUEEN ELIZABETH

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10214699

DEP ID: 10214699

MINE NAME: BLUE BIRD

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: LEAD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: LEAD

IMPORTANCE: TERTIARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: BLUE BIRD

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10264310

DEP ID: 10264310

MINE NAME: RAINBOW

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: RAINBOW

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10190080

DEP ID: 10190080

MINE NAME: IDAHO BRIDE

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: IDAHO BRIDE

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10214313

DEP ID: 10214313

MINE NAME: GOLDEN RULE

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: GOLDEN RULE

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10166977

DEP ID: 10166977

MINE NAME: FRENCH FLAG

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: FRENCH FLAG

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10214883

DEP ID: 10214883

MINE NAME: HORN LODE

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: HORN LODE

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10239123

DEP ID: 10239123

MINE NAME: NEW CENTURY

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: NEW CENTURY

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10166369

DEP ID: 10166369

MINE NAME: KOBOLD

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: KOBOLD

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10239305

DEP ID: 10239305

MINE NAME: STEPHENS PLACER

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: STEPHENS PLACER

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10263982

DEP ID: 10263982

MINE NAME: WILBUR

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: WILBUR

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10141532

DEP ID: 10141532

MINE NAME: COOPER

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: LEAD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: LEAD

IMPORTANCE: TERTIARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

COMMODITY: COPPER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: COPPER

IMPORTANCE: TERTIARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: COOPER

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10166515

DEP ID: 10166515

MINE NAME: YUKON GIRL

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: LEAD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: LEAD

IMPORTANCE: TERTIARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: YUKON GIRL

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10238941

DEP ID: 10238941

MINE NAME: CASH

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: ZINC

COMMODITY TYPE: METALLIC

COMMODITY GROUP: ZINC

IMPORTANCE: TERTIARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

COMMODITY: LEAD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: LEAD

IMPORTANCE: PRIMARY

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: TERTIARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: CASH

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10167032

DEP ID: 10167032

MINE NAME: TORPEDO

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: TORPEDO

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 68

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10264333

DEP ID: 10264333

MINE NAME: BLIND

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: LEAD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: LEAD

IMPORTANCE: TERTIARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: BLIND

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 69

Distance from Property: 0.07 mi. (370 ft.) S

FACILITY INFORMATION

GEOSEARCH ID: 10311037

DEP ID: 10311037

MINE NAME: **BLACK BEAR MINE**

ADDRESS: **CLEAR CREEK COUNTY**

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: **OCCURRENCE**

COMMODITY DETAILS

COMMODITY: **LEAD**

COMMODITY TYPE: **METALLIC**

COMMODITY GROUP: **LEAD**

IMPORTANCE: **TERTIARY**

COMMODITY: **SILVER**

COMMODITY TYPE: **METALLIC**

COMMODITY GROUP: **SILVER**

IMPORTANCE: **TERTIARY**

COMMODITY: **GOLD**

COMMODITY TYPE: **METALLIC**

COMMODITY GROUP: **GOLD**

IMPORTANCE: **TERTIARY**

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: **BLACK BEAR MINE**

STATUS: **CURRENT**

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Mineral Resource Data System (MRDS)

MAP ID# 70

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10287141

DEP ID: 10287141

MINE NAME: DOVER

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: DOVER

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 71

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10166516

DEP ID: 10166516

MINE NAME: MACKAY TUNNEL

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: MACKAY TUNNEL

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 72

Distance from Property: 0.07 mi. (370 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10190542

DEP ID: 10190542

MINE NAME: CROCKET

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: COPPER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: COPPER

IMPORTANCE: SECONDARY

COMMODITY: LEAD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: LEAD

IMPORTANCE: SECONDARY

COMMODITY: ZINC

COMMODITY TYPE: METALLIC

COMMODITY GROUP: ZINC

IMPORTANCE: SECONDARY

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: CROCKET

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 73

Distance from Property: 0.07 mi. (370 ft.) SW

FACILITY INFORMATION

GEOSEARCH ID: 10165765

DEP ID: 10165765

MINE NAME: ALMA-LINCOLN MINE

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: PRIMARY

COMMODITY: LEAD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: LEAD

IMPORTANCE: PRIMARY

COMMODITY: COPPER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: COPPER

IMPORTANCE: PRIMARY

COMMODITY: ZINC

COMMODITY TYPE: METALLIC

COMMODITY GROUP: ZINC

IMPORTANCE: SECONDARY

COMMODITY: URANIUM

COMMODITY TYPE: METALLIC

COMMODITY GROUP: URANIUM

IMPORTANCE: TERTIARY

MATERIAL DETAILS

MATERIAL: SPHALERITE

ORE OR GANGUE: ORE

Mineral Resource Data System (MRDS)

MATERIAL: **TENNANTITE**

ORE OR GANGUE: **ORE**

MATERIAL: **GOLD**

ORE OR GANGUE: **ORE**

MATERIAL: **CERUSSITE**

ORE OR GANGUE: **ORE**

MATERIAL: **CHALCOCITE**

ORE OR GANGUE: **ORE**

MATERIAL: **COVELLITE**

ORE OR GANGUE: **ORE**

MATERIAL: **ANKERITE**

ORE OR GANGUE: **GANGUE**

MATERIAL: **QUARTZ**

ORE OR GANGUE: **GANGUE**

MATERIAL: **PITCHBLENDE**

ORE OR GANGUE: **TRACE**

MATERIAL: **SCHROECKINGE**

ORE OR GANGUE: **TRACE**

MATERIAL: **ZIPPEITE**

ORE OR GANGUE: **TRACE**

MATERIAL: **CHALCOPYRITE**

ORE OR GANGUE: **ORE**

MATERIAL: **ENARGITE**

ORE OR GANGUE: **ORE**

MATERIAL: **GALENA**

ORE OR GANGUE: **ORE**

MATERIAL: **POLYBASITE**

ORE OR GANGUE: **ORE**

MATERIAL: **PYRITE**

Mineral Resource Data System (MRDS)

ORE OR GANGUE: ORE

NAME DETAILS

SITE NAME: RUBY ADIT

STATUS: PREVIOUS

SITE NAME: ELLIOTT & BARBER 1 & 2

STATUS: PREVIOUS

SITE NAME: ALMA-LINCOLN MINE

STATUS: CURRENT

SITE NAME: LINCOLN GROUP (LINCOLN, SOUTH LINCO

STATUS: PREVIOUS

SITE NAME: PLATT

STATUS: PREVIOUS

SITE NAME: JOSEPHINE SHAFT & TUNNEL

STATUS: PREVIOUS

SITE NAME: ALMA LINCOLN

STATUS: PREVIOUS

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Mineral Resource Data System (MRDS)

MAP ID# 74

Distance from Property: 0.07 mi. (370 ft.) NW

FACILITY INFORMATION

GEOSEARCH ID: 10190114

DEP ID: 10190114

MINE NAME: FOUR-C TUNNEL

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

MATERIAL DETAILS

MATERIAL: PYRITE

ORE OR GANGUE: ORE

MATERIAL: QUARTZ

ORE OR GANGUE: GANGUE

NAME DETAILS

SITE NAME: 4-C TUNNEL

STATUS: PREVIOUS

SITE NAME: FOUR-C TUNNEL

STATUS: CURRENT

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Surface Mining Control and Reclamation Act Sites (SMCRA)

MAP ID# 75

Distance from Property: 0.07 mi. (370 ft.) NW

FACILITY INFORMATION

GEOSEARCH ID: **CO010020**

AMLIS KEY: **CO010020**

PROBLEM AREA NUMBER: **10020**

PROBLEM AREA NAME: **RED ELEPHANT PROJECT**

ADDRESS: **CLEAR CREEK COUNTY**

DUMONT, CO 80436

COUNTY: **CLEAR CREEK**

PLAN UNIT NUMBER: **541**

PLAN UNIT NAME: **EMPIRE**

FACILITY DETAIL(S)

FUNDING SOURCE/PROGRAM: **NCA**

PROBLEM TYPE: **P**

PROBLEM PRIORITY: **1**

MINING TYPE: **U**

ORE TYPES: **SL**

DATE PREPARED: **7/31/2008 0:00**

DATE REVISED: **8/31/2010 0:00**

PRIVATE OWNER %: **100**

STATE OWNER %: **NOT REPORTED**

OTHER FEDERAL OWNER %: **NOT REPORTED**

PARK SERVICE OWNER %: **NOT REPORTED**

FOREST SERVICE OWNER %: **NOT REPORTED**

INDIAN OWNER %: **NOT REPORTED**

BLM OWNER %: **NOT REPORTED**

UNFUNDED STANDARD UNITS: **0**

UNFUNDED COSTS: **0**

UNFUNDED GPRA ACRES: **0**

UNFUNDED METRIC UNITS: **0**

FUNDED STANDARD UNITS: **0**

FUNDED COSTS: **0**

FUNDED GPRA ACRES: **0**

FUNDED METRIC UNITS: **0**

COMPLETED STANDARD UNITS: **1**

COMPLETED COSTS: **2338**

COMPLETED GPRA ACRES: **0.1**

COMPLETED METRIC UNITS: **1**

FUNDING SOURCE/PROGRAM: **NCA**

PROBLEM TYPE: **VO**

PROBLEM PRIORITY: **1**

Surface Mining Control and Reclamation Act Sites (SMCRA)

MINING TYPE: **U**
ORE TYPES: **SL**
DATE PREPARED: **7/31/2008 0:00**
DATE REVISED: **8/31/2010 0:00**
PRIVATE OWNER %: **100**
STATE OWNER %: **NOT REPORTED**
OTHER FEDERAL OWNER %: **NOT REPORTED**
PARK SERVICE OWNER %: **NOT REPORTED**
FOREST SERVICE OWNER %: **NOT REPORTED**
INDIAN OWNER %: **NOT REPORTED**
BLM OWNER %: **NOT REPORTED**
UNFUNDED STANDARD UNITS: **0**
UNFUNDED COSTS: **0**
UNFUNDED GPRA ACRES: **0**
UNFUNDED METRIC UNITS: **0**
FUNDED STANDARD UNITS: **0**
FUNDED COSTS: **0**
FUNDED GPRA ACRES: **0**
FUNDED METRIC UNITS: **0**
COMPLETED STANDARD UNITS: **6**
COMPLETED COSTS: **55829**
COMPLETED GPRA ACRES: **0.6**
COMPLETED METRIC UNITS: **6**

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Mine Safety and Health Administration Master Index File (MSHA)

MAP ID# 76

Distance from Property: 0.07 mi. (370 ft.) NW

FACILITY INFORMATION

GEOSEARCH ID: 0504917

MINE ID: 0504917

MINE NAME: S P CHASE PARTNER NEWCOMB

BUSINESS NAME: BARNHARD MINING COMPANY LLC

ADDRESS: 1630 MINER STREET #248

IDAHO SPRINGS, CO 80452-1290

COUNTY: NOT REPORTED

MINE DETAILS

MINE TYPE: UNDERGROUND

MINE STATUS: ABANDONED

STATUS DATE: 07/31/2014

COAL OR METAL/NON-METAL MINE: METAL

CONTROLLER ID: 0078553

CONTROLLER NAME: ALBERT J BARNHARD

CONTROLLER BEGIN DATE: 08/18/2008

OPERATOR ID: 0093445

OPERATOR NAME: BARNHARD MINING COMPANY LLC

COMPANY TYPE: OTHER

PRIMARY SIC CODE: 104100

PRIMARY SIC DESCRIPTION: GOLD ORE

SECONDARY SIC CODE: 104400

SECONDARY SIC DESCRIPTION: SILVER ORE

PRIMARY CANVASS: METAL

SECONDARY CANVASS: METAL

AVERAGE MINE HEIGHT: NOT REPORTED

MINE GAS CATEGORY: VI

METHANE LIBERATION: NOT REPORTED

NUMBER OF PRODUCING PITS: NOT REPORTED

NUMBER OF NON-PRODUCING PITS: NOT REPORTED

NUMBER OF TAILING PONDS: 0

PILLAR RECOVERY USED: NO

HIGHWALL MINER USED: NO

MULTIPLE PITS: NO

VIOLATION DETAILS

EVENT NUMBER	VIOLATION NUMBER	VIOLATION ISSUE DATE	VIOLATION OCCUR DATE	TYPE OF CITATION	NUMBER OF PEOPLE AFFECTED	PROPOSED PENALTY	DOCKET NUMBER
6691811	8761514	07/14/2014	07/14/2014	ORDER	0	\$NOT REPORTED	NOT REPORTED
6691811	8761513	07/14/2014	07/14/2014	ORDER	0	\$NOT REPORTED	NOT REPORTED
6691811	8761512	07/14/2014	07/14/2014	ORDER	0	\$NOT REPORTED	NOT REPORTED
6691806	8761485	06/25/2014	06/25/2014	CITATION	1	\$897	NOT REPORTED
6691806	8761486	06/25/2014	06/25/2014	CITATION	1	\$897	NOT REPORTED

Mine Safety and Health Administration Master Index File (MSHA)

6691806	8761487	06/25/2014	06/25/2014	CITATION	1	\$897	NOT REPORTED
6553982	6594063	03/25/2014	03/25/2014	CITATION	0	\$100	NOT REPORTED
6553973	6594043	09/03/2013	04/15/2013	CITATION	0	\$100	NOT REPORTED
6613452	6582997	08/15/2012	08/15/2012	CITATION	1	\$131	NOT REPORTED
6613452	6582998	08/15/2012	08/15/2012	ORDER	0	\$NOT REPORTED	NOT REPORTED
6559469	6582923	02/24/2012	02/24/2012	CITATION	1	\$112	NOT REPORTED
6559469	6582933	04/02/2012	02/24/2012	ORDER	0	\$NOT REPORTED	NOT REPORTED
6559912	8590044	12/27/2011	12/27/2011	CITATION	0	\$100	NOT REPORTED
6555351	6590431	08/10/2011	08/10/2011	CITATION	1	\$100	NOT REPORTED
6555346	6590422	06/27/2011	06/27/2011	CITATION	0	\$100	NOT REPORTED
6555306	6581941	11/23/2010	11/23/2010	CITATION	1	\$100	NOT REPORTED
6555306	6581940	11/23/2010	11/23/2010	CITATION	1	\$100	NOT REPORTED
6552820	6582614	06/28/2010	06/28/2010	CITATION	1	\$100	NOT REPORTED
6552820	6582612	06/28/2010	06/28/2010	CITATION	1	\$100	NOT REPORTED
6552820	6582613	06/28/2010	06/28/2010	CITATION	1	\$100	NOT REPORTED
6552820	6582611	06/28/2010	06/28/2010	CITATION	1	\$100	NOT REPORTED

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Underground Storage Tank Facilities (UST)

[MAP ID# 77](#)

Distance from Property: 0.08 mi. (422 ft.) N

FACILITY INFORMATION

FACILITY ID: 5418
NAME: FORMER SERVICE STATION
ADDRESS: 2410 COLORADO BLVD
IDAHO SPRINGS, CO 80452

OWNER INFORMATION

OWNER ID: 5373
NAME: BOB BOWLAND
ADDRESS: BOX 1201
IDAHO SPRINGS, CO 80452

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=5418

TANK INFORMATION

TANK ID:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:	INSTALLATION DATE:
14871	UNDERGROUND STORAGE TANK	UNKNOWN	999999999	CLOSED	NOT REPORTED
14872	UNDERGROUND STORAGE TANK	UNKNOWN	999999999	CLOSED	NOT REPORTED
14873	UNDERGROUND STORAGE TANK	UNKNOWN	999999999	CLOSED	NOT REPORTED

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Aboveground Storage Tank Facilities (AST)

[MAP ID# 77](#)

Distance from Property: 0.08 mi. (422 ft.) N

FACILITY INFORMATION

FACILITY ID: 13123

NAME: **BOLO LIMITED LIABILITY**

ADDRESS: 2410 COLORADO BLVD
IDAHO SPRINGS, CO 80452

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=13123

OWNER INFORMATION

OWNER ID: **NOT REPORTED**

NAME: **BOLO LIMITED LIABILITY**

ADDRESS: PO BOX 1201
IDAHO SPRINGS, CO 80452

TANK INFORMATION

TANK ID: TANK TYPE:

TANK PRODUCT:

TANK CAPACITY: TANK STATUS:

INSTALLATION DATE:

NR NOT REPORTED

NOT REPORTED

NOT REPORTED NOT REPORTED

NOT REPORTED

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Leaking Storage Tank Facilities (LST)

[MAP ID# 77](#)

Distance from Property: 0.08 mi. (422 ft.) N

FACILITY INFORMATION

UNIQUE ID: 5418LST

FACILITY ID: 5418

NAME: FORMER SERVICE STATION

ADDRESS: 2410 COLORADO BLVD
IDAHO SPRINGS, CO 80452

SITE NAME: BOLO LIMITED LIABILITY

LOCATION: 2410 COLORADO BLVD
IDAHO SPRINGS 80452

LEAKING INFORMATION

EVENT ID: STATUS: RELEASE DATE:

4496 CLOSED 6/13/1994

ALTERNATE NAME:

BOLO LIMITED LIABILITY

COSTIS LINK: http://costis.cdle.state.co.us/event.asp?h_id=4496

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Underground Storage Tank Facilities (UST)

MAP ID# 78

Distance from Property: 0.09 mi. (475 ft.) N

FACILITY INFORMATION

FACILITY ID: 10641

NAME: BLACKWELL OIL CO

ADDRESS: 1246 MINER ST

IDAHO SPRINGS, CO 80452

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=10641

OWNER INFORMATION

OWNER ID: 584

NAME: BLACKWELL OIL CO

ADDRESS: PO BOX 3333

IDAHO SPRINGS, CO 80452

TANK INFORMATION

TANK ID:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:	INSTALLATION DATE:
28973	UNDERGROUND STORAGE TANK	1 - UNLEADED REGULAR (RUL)	8000	OPEN	NOT REPORTED
28974	UNDERGROUND STORAGE TANK	2 - UNLEADED MID-GRADE (MUL)	8000	OPEN	NOT REPORTED
28975	UNDERGROUND STORAGE TANK	DIESEL DYED #1	8000	OPEN	NOT REPORTED
28976	UNDERGROUND STORAGE TANK	DIESEL/DIESEL (MULTI-COMP)	2000	OPEN	NOT REPORTED
28977	UNDERGROUND STORAGE TANK	6 - USED OIL (WASTE OIL)	500	OPEN	NOT REPORTED

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Leaking Storage Tank Facilities (LST)

MAP ID# 78

Distance from Property: 0.09 mi. (475 ft.) N

FACILITY INFORMATION

UNIQUE ID: 10641LST

FACILITY ID: 10641

NAME: BLACKWELL OIL CO

ADDRESS: 1246 MINER ST

IDAHO SPRINGS, CO 80452

SITE NAME: BLACKWELL OIL CO

LOCATION: 1246 MINER ST
IDAHO SPRINGS 80452

LEAKING INFORMATION

EVENT ID:

STATUS:

RELEASE DATE:

ALTERNATE NAME:

10921

CLOSED

8/28/2009 15:56

BLACKWELL OIL CO

COSTIS LINK: http://costis.cdle.state.co.us/event.asp?h_id=10921

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Spills Listing (SPILLS)

MAP ID# 79

Distance from Property: 0.08 mi. (422 ft.) N

INCIDENT INFORMATION

CASE NUMBER: 2012-0785 NRC NUMBER: NOT REPORTED

SPILL DATE: 11/16/12

SPILL LOCATION: 25 DUMONT LANE

SPILL CITY/STATE/ZIP: DUMONT, CO 80452

SPILL COUNTY: CLEAR CREEK

RESPONSIBLE PARTY

NAME: XCELL ENERGY

ADDRESS: 1800 LARIMER ST.
DENVER, CO 80202

COUNTY: DENVER

CONTACT: REBECCA STURGEON

PHONE: 303-294-2189

INCIDENT DETAILS

SOURCE: OTHER

SOURCE TYPE: OIL WELL/WELL SITE

MEDIUM: WATER

WATERWAY: MILL CREEK (TRIBUTARY OF CLEAR CREEK)

CAUSE: OTHER

MATERIAL TYPE: E & P WASTES

MATERIAL DESCRIPTION:
BENTONITE SLURRY

MATERIAL QUANTITY:
2000 GALLONS

WATER QUANTITY:
2000 G

CAUSE INFORMATION:

WHILE BORING A LINE UNDER THE CREEK, DRILL HIT A ROCK CAUSING BOOR TO FRACK OUT INTO THE MILL CREEK.
INITIALLY OCCURRED ON 11/16.

ACTION:

AFTER INITIAL DICOVERY XCEL PUT FIBER MESH IN TO SEAL CRACK. RESTARTED TODAY AND DISCOVERED THAT CRACK
WASN'T SEALED. CONSULTED WITH ARMY CORPS OF ENGINEERS TODAY. ADVISED TO PUT BMP'S IN WATER. XCEL
NOTIFIED CLEAR CREEK EH. SPOKE WITH TRENT HYATT.

RESPONSE COMMENTS:

XCEL SUPERVISOR- JOE MARKANO 720-281-6876.

COMMENTS:

NOT REPORTED

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Mineral Resource Data System (MRDS)

MAP ID# 80

Distance from Property: 0.08 mi. (422 ft.) SW

FACILITY INFORMATION

GEOSEARCH ID: 10263669

DEP ID: 10263669

MINE NAME: STANLEY MINE

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PRODUCER

COMMODITY DETAILS

COMMODITY: ZINC

COMMODITY TYPE: METALLIC

COMMODITY GROUP: ZINC

IMPORTANCE: TERTIARY

COMMODITY: LEAD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: LEAD

IMPORTANCE: TERTIARY

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: TERTIARY

COMMODITY: COPPER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: COPPER

IMPORTANCE: PRIMARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: STANLEY MINE

STATUS: CURRENT

SITE NAME: WHALE,

STATUS: PREVIOUS

SITE NAME: GEHRMANN

STATUS: PREVIOUS

SITE NAME: YORK

STATUS: PREVIOUS

SITE NAME: COOPER

STATUS: PREVIOUS

SITE NAME: GOLDEN LINK

STATUS: PREVIOUS

Mineral Resource Data System (MRDS)

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Mineral Resource Data System (MRDS)

MAP ID# 81

Distance from Property: 0.08 mi. (422 ft.) NW

FACILITY INFORMATION

GEOSEARCH ID: 10142410

DEP ID: 10142410

MINE NAME: ST.GEORGE

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: LEAD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: LEAD

IMPORTANCE: TERTIARY

COMMODITY: ZINC

COMMODITY TYPE: METALLIC

COMMODITY GROUP: ZINC

IMPORTANCE: TERTIARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: ST.GEORGE

STATUS: CURRENT

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Mine Safety and Health Administration Master Index File (MSHA)

MAP ID# 82

Distance from Property: 0.08 mi. (422 ft.) SW

FACILITY INFORMATION

GEOSEARCH ID: 0503506

MINE ID: 0503506

MINE NAME: MENDOTA MINE

BUSINESS NAME: ARGOSY MINING COMPANY

ADDRESS: 25 FREELAND PLACE P O BOX N
IDAHO SPRINGS, CO 80452

COUNTY: NOT REPORTED

MINE DETAILS

MINE TYPE: UNDERGROUND

MINE STATUS: ABANDONED

STATUS DATE: 10/26/1980

COAL OR METAL/NON-METAL MINE: METAL

CONTROLLER ID: M03018

CONTROLLER NAME: KEITH HENRY J JR

CONTROLLER BEGIN DATE: 02/01/1980

OPERATOR ID: L03768

OPERATOR NAME: ARGOSY MINING COMPANY

COMPANY TYPE: OTHER

PRIMARY SIC CODE: 104400

PRIMARY SIC DESCRIPTION: SILVER ORE

SECONDARY SIC CODE: NOT REPORTED

SECONDARY SIC DESCRIPTION: NOT REPORTED

PRIMARY CANVASS: METAL

SECONDARY CANVASS: NOT REPORTED

AVERAGE MINE HEIGHT: NOT REPORTED

MINE GAS CATEGORY: NOT REPORTED

METHANE LIBERATION: NOT REPORTED

NUMBER OF PRODUCING PITS: NOT REPORTED

NUMBER OF NON-PRODUCING PITS: NOT REPORTED

NUMBER OF TAILING PONDS: NOT REPORTED

PILLAR RECOVERY USED: NO

HIGHWALL MINER USED: NO

MULTIPLE PITS: NO

VIOLATION DETAILS

NO VIOLATION DETAILS REPORTED

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Aboveground Storage Tank Facilities (AST)

MAP ID# 83

Distance from Property: 0.09 mi. (475 ft.) NW

FACILITY INFORMATION

FACILITY ID: 17890

NAME: **SPRING STATION LLC**

ADDRESS: **2900 COLORADO BLVD
IDAHO SPRINGS, CO 80452**

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=17890

OWNER INFORMATION

OWNER ID: **20286**

NAME: **SPRING STATION LLC**

ADDRESS: **20 N WACKER STE 2275
CHICAGO, IL 60606**

TANK INFORMATION

TANK ID:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:	INSTALLATION DATE:
NR	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED

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Leaking Storage Tank Facilities (LST)

MAP ID# 83

Distance from Property: 0.09 mi. (475 ft.) NW

FACILITY INFORMATION

UNIQUE ID: 17890LST

FACILITY ID: 17890

NAME: **SPRING STATION LLC**

ADDRESS: 2900 COLORADO BLVD
IDAHO SPRINGS, CO 80452

SITE NAME: **SPRING STATION LLC**

LOCATION: 2900 COLORADO BLVD
IDAHO SPRINGS 80452

LEAKING INFORMATION

EVENT ID: STATUS: RELEASE DATE:

9879 **CLOSED** **8/23/2005 7:38**

COSTIS LINK: http://costis.cdle.state.co.us/event.asp?h_id=9879

ALTERNATE NAME:

SPRING STATION LLC

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Spills Listing (SPILLS)

MAP ID# 84

Distance from Property: 0.09 mi. (475 ft.) N

INCIDENT INFORMATION

CASE NUMBER: 2016-0032 NRC NUMBER: NOT REPORTED

SPILL DATE: 1/1/2016

SPILL LOCATION: 2384 COLORADO BLVD

SPILL CITY/STATE/ZIP: IDAHO SPRINGS, CO 80452

SPILL COUNTY: CLEAR CREEK

RESPONSIBLE PARTY

NAME: UNKNOWN BUILDING OWNER

ADDRESS: 2384 COLORADO BLVD
IDAHO SPRINGS, CO 80452

COUNTY: NOT REPORTED

CONTACT: TACO DEL RIO

PHONE: NOT REPORTED

INCIDENT DETAILS

SOURCE: FIXED FACILITY

SOURCE TYPE: RESTAURANT

MEDIUM: AIR

WATERWAY: NOT REPORTED

CAUSE: ERROR OPERATOR

MATERIAL TYPE: HAZARDOUS

MATERIAL DESCRIPTION:
ASBESTOS

MATERIAL QUANTITY:
NOT REPORTED

WATER QUANTITY:
NOT REPORTED

CAUSE INFORMATION:

ALL INFORMATION IS PER THE CALLER, WHO REPORTS THAT THIS BUILDING HAS BEEN UNDERGOING RENOVATION SINCE THE BEGINNING OF THE YEAR. IT WAS AN OLD SUBWAY, BUT HAS BEEN REMODELED TO BE A TACO DEL RIO. CALLER STATES THAT WORKERS TOLD HIM THAT THERE WAS NO BUILDING PERMIT. A HOOD IS BEING PUT IN TODAY BY A COMPANY CALLED SUPERIOR. THERE IS STILL A LOT OF REMODELING TO BE DONE.

ACTION:

NOT REPORTED

RESPONSE COMMENTS:

NOT REPORTED

COMMENTS:

CLEAR CREEK COUNTY EH

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Underground Storage Tank Facilities (UST)

MAP ID# 85

Distance from Property: 0.09 mi. (475 ft.) S

FACILITY INFORMATION

FACILITY ID: 8661

NAME: CLEAR CREEK COUNTY ROAD & BRIDGE

ADDRESS: 3549 CLEAR CREEK CR 312
DUMONT, CO 80436

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=8661

OWNER INFORMATION

OWNER ID: 21044

NAME: CLEAR CREEK COUNTY ROAD & BRIDGE

ADDRESS: PO BOX 362
DUMONT, CO 80436

TANK INFORMATION

TANK ID:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:	INSTALLATION DATE:
22657	UNDERGROUND STORAGE TANK	4 - DIESEL	10000	OPEN	NOT REPORTED
22658	UNDERGROUND STORAGE TANK	1 - UNLEADED REGULAR (RUL)	10000	OPEN	NOT REPORTED
22659	UNDERGROUND STORAGE TANK	1 - UNLEADED REGULAR (RUL)	6000	OPEN	NOT REPORTED

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Mineral Resource Data System (MRDS)

MAP ID# 86

Distance from Property: 0.11 mi. (581 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10263806

DEP ID: 10263806

MINE NAME: ANNA B.

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: ANNA B.

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 87

Distance from Property: 0.09 mi. (475 ft.) SW

FACILITY INFORMATION

GEOSEARCH ID: 10142620

DEP ID: 10142620

MINE NAME: WARD

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: TERTIARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: PRIMARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: WARD

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 88

Distance from Property: 0.09 mi. (475 ft.) SW

FACILITY INFORMATION

GEOSEARCH ID: 10264085

DEP ID: 10264085

MINE NAME: MAYFLOWER

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: COPPER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: COPPER

IMPORTANCE: SECONDARY

COMMODITY: LEAD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: LEAD

IMPORTANCE: SECONDARY

COMMODITY: ZINC

COMMODITY TYPE: METALLIC

COMMODITY GROUP: ZINC

IMPORTANCE: SECONDARY

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: LAFAYETTE

STATUS: PREVIOUS

SITE NAME: MAYFLOWER

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 88

Distance from Property: 0.09 mi. (475 ft.) SW

FACILITY INFORMATION

GEOSEARCH ID: 10016000

DEP ID: 10016000

MINE NAME: MAYFLOWER

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: PRIMARY

COMMODITY: ZINC

COMMODITY TYPE: METALLIC

COMMODITY GROUP: ZINC

IMPORTANCE: PRIMARY

COMMODITY: COPPER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: COPPER

IMPORTANCE: PRIMARY

COMMODITY: LEAD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: LEAD

IMPORTANCE: PRIMARY

MATERIAL DETAILS

MATERIAL: SILVER

ORE OR GANGUE: ORE

MATERIAL: GOLD

ORE OR GANGUE: ORE

NAME DETAILS

SITE NAME: ENGLAND

Mineral Resource Data System (MRDS)

STATUS: **PREVIOUS**
SITE NAME: **ALMA**
STATUS: **PREVIOUS**
SITE NAME: **LINCOLN**
STATUS: **PREVIOUS**
SITE NAME: **JOSEPHINE**
STATUS: **PREVIOUS**
SITE NAME: **ELLIOT AND BARBER**
STATUS: **PREVIOUS**
SITE NAME: **METROPOLITAN**
STATUS: **PREVIOUS**
SITE NAME: **ALMA LINCOLN**
STATUS: **PREVIOUS**
SITE NAME: **MONTE CRISTO**
STATUS: **PREVIOUS**
SITE NAME: **BRONABER**
STATUS: **PREVIOUS**
SITE NAME: **MASTEDON**
STATUS: **PREVIOUS**
SITE NAME: **LITTLE SIX**
STATUS: **PREVIOUS**
SITE NAME: **GOLD DUST**
STATUS: **PREVIOUS**
SITE NAME: **WYANDOTTE**
STATUS: **PREVIOUS**
SITE NAME: **SUMMIT**
STATUS: **PREVIOUS**
SITE NAME: **LARBER**
STATUS: **PREVIOUS**
SITE NAME: **LOST SUMMITT**
STATUS: **PREVIOUS**
SITE NAME: **ATLANTIC**
STATUS: **PREVIOUS**
SITE NAME: **HUKILL**
STATUS: **PREVIOUS**
SITE NAME: **G AND M**
STATUS: **PREVIOUS**
SITE NAME: **CROCKET**
STATUS: **PREVIOUS**
SITE NAME: **NEW CENTURY**
STATUS: **PREVIOUS**
SITE NAME: **MAUD MONROE**
STATUS: **PREVIOUS**
SITE NAME: **EULALIE**
STATUS: **PREVIOUS**
SITE NAME: **CONNA JUANITA**
STATUS: **PREVIOUS**

Mineral Resource Data System (MRDS)

SITE NAME: LITTLE HARRY
STATUS: PREVIOUS
SITE NAME: SALISBURY
STATUS: PREVIOUS
SITE NAME: ROAD LEVEL
STATUS: PREVIOUS
SITE NAME: STANLEY
STATUS: PREVIOUS
SITE NAME: LOST
STATUS: PREVIOUS
SITE NAME: READY CASH
STATUS: PREVIOUS
SITE NAME: TWO KINGS
STATUS: PREVIOUS
SITE NAME: CENTENNIAL
STATUS: PREVIOUS
SITE NAME: CARDINAN
STATUS: PREVIOUS
SITE NAME: WALLACE
STATUS: PREVIOUS
SITE NAME: HOOSAC
STATUS: PREVIOUS
SITE NAME: HOUSTON
STATUS: PREVIOUS
SITE NAME: BULLION KING
STATUS: PREVIOUS
SITE NAME: IRENE
STATUS: PREVIOUS
SITE NAME: RED LYON
STATUS: PREVIOUS
SITE NAME: OLD STANLEY
STATUS: PREVIOUS
SITE NAME: NIAGARA
STATUS: PREVIOUS
SITE NAME: MANHATTEN
STATUS: PREVIOUS
SITE NAME: BELLE VUE
STATUS: PREVIOUS
SITE NAME: NEW BEDFORD
STATUS: PREVIOUS
SITE NAME: MAB
STATUS: PREVIOUS
SITE NAME: ORO
STATUS: PREVIOUS
SITE NAME: COLUMBIA
STATUS: PREVIOUS
SITE NAME: DONNA JUANITA

Mineral Resource Data System (MRDS)

STATUS: **PREVIOUS**
SITE NAME: **GLADSTONE**
STATUS: **PREVIOUS**
SITE NAME: **PHOENIX**
STATUS: **PREVIOUS**
SITE NAME: **TRYON**
STATUS: **PREVIOUS**
SITE NAME: **EDWARD**
STATUS: **PREVIOUS**
SITE NAME: **STAR**
STATUS: **PREVIOUS**
SITE NAME: **BELL**
STATUS: **PREVIOUS**

SITE NAME: **MAYFLOWER**
STATUS: **CURRENT**
SITE NAME: **LAFAYETTE**
STATUS: **PREVIOUS**
SITE NAME: **PRIDE OF WEST**
STATUS: **PREVIOUS**
SITE NAME: **WHALE**
STATUS: **PREVIOUS**
SITE NAME: **COLUMBINE**
STATUS: **PREVIOUS**
SITE NAME: **YORK**
STATUS: **PREVIOUS**
SITE NAME: **GOLDEN LINK**
STATUS: **PREVIOUS**

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Underground Storage Tank Facilities (UST)

[MAP ID# 89](#)

Distance from Property: 0.1 mi. (528 ft.) N

FACILITY INFORMATION

FACILITY ID: 946

NAME: WESTERN CONVENIENCE #120

ADDRESS: 2630 COLORADO BLVD
IDAHO SPRINGS, CO 80452

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=946

OWNER INFORMATION

OWNER ID: 7544

NAME: WESTERN CONVENIENCE STORES INC

ADDRESS: 9849 E EASTER AVE
CENTENNIAL, CO 80112

TANK INFORMATION

TANK ID:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:	INSTALLATION DATE:
2762	UNDERGROUND STORAGE TANK	3 - UNLEADED PREMIUM (PUL)	6000	OPEN	NOT REPORTED
2763	UNDERGROUND STORAGE TANK	1 - UNLEADED REGULAR (RUL)	10000	OPEN	NOT REPORTED
2764	UNDERGROUND STORAGE TANK	NOT REPORTED	6000	CLOSED	NOT REPORTED
41019	UNDERGROUND STORAGE TANK	8 - DIESEL/GAS (MULTI-COMP)	12000	OPEN	NOT REPORTED

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Alternative Fueling Stations (ALTFUELS)

MAP ID# 89

Distance from Property: 0.1 mi. (528 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: **33442**

UNIQUE IDENTIFIER FOR THIS SPECIFIC STATION: **33442**

STATION NAME: **WESTERN CONVENIENCE STORE**

ADDRESS: **2630 COLORADO BLVD
IDAHO SPRINGS, CO 80452**

INTERSECTION DIRECTIONS: **NOT REPORTED**

STATION PHONE: **303-567-2156**

STATION CURRENT STATUS: **OPEN: THE STATION IS OPEN.**

TYPE OF ALTERNATIVE FUEL THE STATION PROVIDES: **ETHANOL (E85)**

OWNER TYPE: **PRIVATELY OWNED**

FEDERAL AGENCY ID: **NOT REPORTED**

FEDERAL AGENCY NAME: **NOT REPORTED**

DATE THAT THE STATION BEGAN OFFERING THE FUEL: **5/16/2014**

DATE THE STATION'S DETAILS WERE LAST CONFIRMED: **11/2/2016**

TIME THE STATION'S DETAILS WERE LAST UPDATED (ISO 8601 FORMAT): **2017-03-20 18:28:46 UTC**

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Leaking Storage Tank Facilities (LST)

MAP ID# 89

Distance from Property: 0.1 mi. (528 ft.) N

FACILITY INFORMATION

UNIQUE ID: 946LST

FACILITY ID: 946

NAME: WESTERN CONVENIENCE #120

ADDRESS: 2630 COLORADO BLVD
IDAHO SPRINGS, CO 80452

SITE NAME: WESTERN CONVENIENCE #120

LOCATION: 2630 COLORADO BLVD
IDAHO SPRINGS 80452

LEAKING INFORMATION

EVENT ID:	STATUS:	RELEASE DATE:	ALTERNATE NAME:
12411	OPEN	12/16/2015 11:41	WESTERN CONVENIENCE #120
COSTIS LINK:	http://costis.cdle.state.co.us/event.asp?h_id=12411		

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Spills Listing (SPILLS)

MAP ID# 90

Distance from Property: 0.1 mi. (528 ft.) N

INCIDENT INFORMATION

CASE NUMBER: 2008-0076 NRC NUMBER: NOT REPORTED

SPILL DATE: 02/05/08

SPILL LOCATION: 9TH AVE. & COLORADO BLVD.

SPILL CITY/STATE/ZIP: IDAHO SPRINGS, CO NOT REPORTED

SPILL COUNTY: CLEAR CREEK

RESPONSIBLE PARTY

NAME: CITY OF IDAHO SPRINGS PUBLIC WORKS

ADDRESS: P.O. BOX 907

IDAHO SPRINGS, CO 80452

COUNTY: NOT REPORTED

CONTACT: RANDY RASMUSSEN

PHONE: 303-567-2400

INCIDENT DETAILS

SOURCE: SEWER SYSTEM

SOURCE TYPE: SANITARY SEWER/LIFT STATION

MEDIUM: LAND

WATERWAY: NOT REPORTED

CAUSE: FAILURE EQUIPMENT

MATERIAL TYPE: SANITARY SEWER OVERFLOW

MATERIAL DESCRIPTION:
WASTEWATER

MATERIAL QUANTITY:
300 GALLONS

WATER QUANTITY:
NOT REPORTED

CAUSE INFORMATION:

A SANITARY SEWER MAIN HAS EITHER COLLAPSED, SHIFTED OR BROKEN, THUS CAUSING A BACK UP WHICH IS BEING RELEASED THROUGH A MANHOLE.

ACTION:

DAMAGED SANITARY SEWER LINE HAS BEEN ISOLATED AND WILL BE REPAIRED IN A WEEK OR SO. IMPACTED AREAS WERE CLEANED AND DISINFECTED.

RESPONSE COMMENTS:

NO WATERWAYS WERE IMPACTED.

COMMENTS:

NOT REPORTED

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Spills Listing (SPILLS)

[MAP ID# 91](#)

Distance from Property: 0.1 mi. (528 ft.) N

INCIDENT INFORMATION

CASE NUMBER: **CO96-458** NRC NUMBER: **NOT REPORTED**

SPILL DATE: **09/03/96**

SPILL LOCATION: **1856 COLORADO BLVD**

SPILL CITY/STATE/ZIP: **IDAHO SPRINGS, CO 80452**

SPILL COUNTY: **CLEAR CREEK**

RESPONSIBLE PARTY

NAME: **GET GASSED CONOCO STATION**

ADDRESS: **1856 COLORADO BLVD**

IDAHO SPRINGS, CO 80452

COUNTY: **CLEAR CREEK**

CONTACT: **SANDY OLHAUSSEN**

PHONE: **303-567-4085**

INCIDENT DETAILS

SOURCE: **UNDER GROUND STORAGE TANK**

SOURCE TYPE: **UNDERGROUND STORAGE TANK**

MEDIUM: **WATER AND LAND**

WATERWAY: **CREEK**

CAUSE: **F**

MATERIAL TYPE: **OIL**

MATERIAL DESCRIPTION:
GASOLINES:AUTOMOTIVE

MATERIAL QUANTITY:
300 GALLONS

WATER QUANTITY:
NOT REPORTED

CAUSE INFORMATION:

PUMP IN SUMP LEAKED

ACTION:

NOT REPORTED

RESPONSE COMMENTS:

NOT REPORTED

COMMENTS:

CONNECTION BETWEEN PUMP & PIPING LEAKED. PUT IN BOOMS ALONG CREEK & PADS ON SHORE TO ABSORB GAS, GOI

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Underground Storage Tank Facilities (UST)

[MAP ID# 91](#)

Distance from Property: 0.1 mi. (528 ft.) N

FACILITY INFORMATION

FACILITY ID: 3445

NAME: GET GASSED

ADDRESS: 1856 COLORADO BLVD
IDAHO SPRINGS, CO 80452

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=3445

OWNER INFORMATION

OWNER ID: 21620

NAME: WALT GROSS

ADDRESS: PO BOX 1482
IDAHO SPRINGS, CO 80452

TANK INFORMATION

TANK ID:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:	INSTALLATION DATE:
9599	UNDERGROUND STORAGE TANK	4 - DIESEL	4000	CLOSED	NOT REPORTED
9600	UNDERGROUND STORAGE TANK	1 - UNLEADED REGULAR (RUL)	12000	CLOSED	NOT REPORTED
9601	UNDERGROUND STORAGE TANK	3 - UNLEADED PREMIUM (PUL)	12000	CLOSED	NOT REPORTED

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Aboveground Storage Tank Facilities (AST)

[MAP ID# 91](#)

Distance from Property: 0.1 mi. (528 ft.) N

FACILITY INFORMATION

FACILITY ID: 13758

NAME: GET GASED

ADDRESS: 1856 COLORADO BLVD
IDAHO SPRINGS, CO 80452

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=13758

OWNER INFORMATION

OWNER ID: NOT REPORTED

NAME: OLNHAUSEN

ADDRESS: BOX 142
DUMONT, CO 80436

TANK INFORMATION

TANK ID: TANK TYPE:

TANK PRODUCT:

TANK CAPACITY: TANK STATUS:

INSTALLATION DATE:

NR NOT REPORTED

NOT REPORTED

NOT REPORTED NOT REPORTED

NOT REPORTED

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Leaking Storage Tank Facilities (LST)

MAP ID# 91

Distance from Property: 0.1 mi. (528 ft.) N

FACILITY INFORMATION

UNIQUE ID: 3445LST

FACILITY ID: 3445

NAME: GET GASED

ADDRESS: 1856 COLORADO BLVD
IDAHO SPRINGS, CO 80452

SITE NAME: GET GASED

LOCATION: 1856 COLORADO BLVD
IDAHO SPRINGS 80452

LEAKING INFORMATION

EVENT ID:	STATUS:	RELEASE DATE:	ALTERNATE NAME:
11372	CLOSED	2/25/2011 10:47	GET GASED
COSTIS LINK:	http://costis.cdle.state.co.us/event.asp?h_id=11372		
1165	CLOSED	9/3/1996	GET GASED
COSTIS LINK:	http://costis.cdle.state.co.us/event.asp?h_id=1165		

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Underground Storage Tank Facilities (UST)

MAP ID# 92

Distance from Property: 0.1 mi. (528 ft.) S

FACILITY INFORMATION

FACILITY ID: 16216

NAME: LAWSON TRAILER COURT

ADDRESS: 2038 CR 308

IDAHO SPRINGS, CO 80452

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=16216

OWNER INFORMATION

OWNER ID: 19473

NAME: LAWSON TRAILER COURT

ADDRESS: 2038 CR 398

IDAHO SPRINGS, CO 80452

TANK INFORMATION

TANK ID:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:	INSTALLATION DATE:
35624	UNDERGROUND STORAGE TANK	GASOLINE	1000	CLOSED	NOT REPORTED
35625	UNDERGROUND STORAGE TANK	GASOLINE	1000	CLOSED	NOT REPORTED

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Mineral Resource Data System (MRDS)

MAP ID# 93

Distance from Property: 0.1 mi. (528 ft.) SW

FACILITY INFORMATION

GEOSEARCH ID: 10239329

DEP ID: 10239329

MINE NAME: JUMBO TUNNEL

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: TERTIARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: PRIMARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: JUMBO TUNNEL

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 94

Distance from Property: 0.1 mi. (528 ft.) SW

FACILITY INFORMATION

GEOSEARCH ID: 10214910

DEP ID: 10214910

MINE NAME: DONNA JUANITA

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

COMMODITY: COPPER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: COPPER

IMPORTANCE: SECONDARY

COMMODITY: LEAD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: LEAD

IMPORTANCE: SECONDARY

COMMODITY: ZINC

COMMODITY TYPE: METALLIC

COMMODITY GROUP: ZINC

IMPORTANCE: SECONDARY

MATERIAL DETAILS

MATERIAL: PYRITE

ORE OR GANGUE: ORE

MATERIAL: GALENA

ORE OR GANGUE: ORE

MATERIAL: SPHALERITE

ORE OR GANGUE: ORE

Mineral Resource Data System (MRDS)

MATERIAL: **QUARTZ**
ORE OR GANGUE: **ORE**

NAME DETAILS

SITE NAME: **DONNA JUANITA**
STATUS: **CURRENT**

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Mineral Resource Data System (MRDS)

MAP ID# 95

Distance from Property: 0.1 mi. (528 ft.) SW

FACILITY INFORMATION

GEOSEARCH ID: 10264237

DEP ID: 10264237

MINE NAME: SILVER KING CROSSCUT

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: SILVER KING CROSSCUT

STATUS: CURRENT

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Leaking Storage Tank Facilities (LST)

[MAP ID# 96](#)

Distance from Property: 0.11 mi. (581 ft.) NW

FACILITY INFORMATION

UNIQUE ID: 10789LST

FACILITY ID: 10789

NAME: SCORPION SHELL

ADDRESS: 2808 COLORADO BLVD
IDAHO SPRINGS, CO 80452

SITE NAME: SCORPION SHELL

LOCATION: 2808 COLORADO BLVD
IDAHO SPRINGS 80452

LEAKING INFORMATION

EVENT ID:	STATUS:	RELEASE DATE:	ALTERNATE NAME:
9509	CLOSED	5/26/2004 8:05	SCORPION SHELL
COSTIS LINK:	http://costis.cdle.state.co.us/event.asp?h_id=9509		

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Solid Waste Facilities (SWF)

MAP ID# 96

Distance from Property: 0.11 mi. (581 ft.) NW

SITE INFORMATION

GEOSEARCH ID: 1188WTR

NAME: **SCORPION TEXACO INC**

ADDRESS: **2808 COLORADO BOUL
IDAHO SPRINGS, CO 80452**

COUNTY: **NOT REPORTED**

CERTIFICATION ID: **1188**

FACILITY TYPE: **REGISTERED TIRE HAULER**

TIRE RETAILER/WHOLESALE: **YES**

HAULER: **NO**

END USER: **NO**

COLLECTION: **NO**

PROCESSOR: **NO**

MONOFILL: **NO**

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Underground Storage Tank Facilities (UST)

MAP ID# 96

Distance from Property: 0.12 mi. (634 ft.) NW

FACILITY INFORMATION

FACILITY ID: 10638
NAME: BLACKWELL OIL CO
ADDRESS: 2806 COLORADO BLVD
IDAHO SPRINGS, CO 80452

OWNER INFORMATION

OWNER ID: 584
NAME: BLACKWELL OIL CO
ADDRESS: PO BOX 3333
IDAHO SPRINGS, CO 80452

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=10638

TANK INFORMATION

TANK ID:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:	INSTALLATION DATE:
28965	UNDERGROUND STORAGE TANK	1 - UNLEADED REGULAR (RUL)	10000	CLOSED	NOT REPORTED
28966	UNDERGROUND STORAGE TANK	2 - UNLEADED MID-GRADE (MUL)	10000	CLOSED	NOT REPORTED
28967	UNDERGROUND STORAGE TANK	3 - UNLEADED PREMIUM (PUL)	10000	CLOSED	NOT REPORTED
28968	UNDERGROUND STORAGE TANK	4 - DIESEL	500	CLOSED	NOT REPORTED
32555	UNDERGROUND STORAGE TANK	NOT LISTED	3000	CLOSED	NOT REPORTED
32556	UNDERGROUND STORAGE TANK	NOT LISTED	3000	CLOSED	NOT REPORTED
32557	UNDERGROUND STORAGE TANK	NOT LISTED	3000	CLOSED	NOT REPORTED
32558	UNDERGROUND STORAGE TANK	NOT LISTED	999999999	CLOSED	NOT REPORTED
32559	UNDERGROUND STORAGE TANK	NOT LISTED	999999999	CLOSED	NOT REPORTED
32560	UNDERGROUND STORAGE TANK	NOT LISTED	999999999	CLOSED	NOT REPORTED
41383	UNDERGROUND STORAGE TANK	1 - UNLEADED REGULAR (RUL)	10000	OPEN	NOT REPORTED
41384	UNDERGROUND STORAGE TANK	2 - UNLEADED MID-GRADE (MUL)	10000	OPEN	NOT REPORTED
41385	UNDERGROUND STORAGE TANK	3 - UNLEADED PREMIUM (PUL)	10000	OPEN	NOT REPORTED

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Underground Storage Tank Facilities (UST)

MAP ID# 96

Distance from Property: 0.11 mi. (581 ft.) NW

FACILITY INFORMATION

FACILITY ID: 10789

NAME: SCORPION SHELL

ADDRESS: 2808 COLORADO BLVD
IDAHO SPRINGS, CO 80452

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=10789

OWNER INFORMATION

OWNER ID: 582

NAME: SCORPION SHELL

ADDRESS: PO BOX 189
IDAHO SPRINGS, CO 80452

TANK INFORMATION

TANK ID:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:	INSTALLATION DATE:
29407	UNDERGROUND STORAGE TANK	1 - UNLEADED REGULAR (RUL)	8000	OPEN	NOT REPORTED
29408	UNDERGROUND STORAGE TANK	3 - UNLEADED PREMIUM (PUL)	8000	OPEN	NOT REPORTED
29409	UNDERGROUND STORAGE TANK	4 - DIESEL	8000	OPEN	NOT REPORTED
29410	UNDERGROUND STORAGE TANK	6 - USED OIL (WASTE OIL)	6000	CLOSED	NOT REPORTED
29411	UNDERGROUND STORAGE TANK	6 - USED OIL (WASTE OIL)	560	CLOSED	NOT REPORTED

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Underground Storage Tank Facilities (UST)

MAP ID# 96

Distance from Property: 0.12 mi. (634 ft.) NW

FACILITY INFORMATION

FACILITY ID: 14756
NAME: TALL COUNTRY IDAHO SPRINGS
ADDRESS: 2806 COLORADO BLVD
IDAHO SPRINGS, CO 80452

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=14756

OWNER INFORMATION

OWNER ID: NOT REPORTED
NAME: BLACKWELL OIL CO
ADDRESS: PO BOX 3333
IDAHO SPRINGS, CO 80452

TANK INFORMATION

TANK ID:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:	INSTALLATION DATE:
NR	UNDERGROUND STORAGE TANK	NOT LISTED	3000	PERMANENTLY CLOSED / /	
NR	UNDERGROUND STORAGE TANK	NOT LISTED	3000	PERMANENTLY CLOSED / /	
NR	UNDERGROUND STORAGE TANK	NOT LISTED	3000	PERMANENTLY CLOSED / /	
NR	UNDERGROUND STORAGE TANK	NOT LISTED	UNKNOWN	PERMANENTLY CLOSED / /	
NR	UNDERGROUND STORAGE TANK	NOT LISTED	UNKNOWN	PERMANENTLY CLOSED / /	
NR	UNDERGROUND STORAGE TANK	NOT LISTED	UNKNOWN	PERMANENTLY CLOSED / /	

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Aboveground Storage Tank Facilities (AST)

MAP ID# 96

Distance from Property: 0.11 mi. (581 ft.) NW

FACILITY INFORMATION

FACILITY ID: 10789

NAME: SCORPION SHELL

ADDRESS: 2808 COLORADO BLVD
IDAHO SPRINGS, CO 80452

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=10789

OWNER INFORMATION

OWNER ID: 582

NAME: SCORPION SHELL

ADDRESS: PO BOX 189
IDAHO SPRINGS, CO 80452

TANK INFORMATION

TANK ID:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:	INSTALLATION DATE:
35629	LIQUEFIED PETROLEUM GAS	LPG	500	OPEN	NOT REPORTED
37282	LIQUEFIED PETROLEUM GAS	LPG	500	OPEN	NOT REPORTED

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Leaking Storage Tank Facilities (LST)

MAP ID# 96

Distance from Property: 0.12 mi. (634 ft.) NW

FACILITY INFORMATION

UNIQUE ID: 10638LST

FACILITY ID: 10638

NAME: BLACKWELL OIL CO

ADDRESS: 2806 COLORADO BLVD
IDAHO SPRINGS, CO 80452

SITE NAME: BLACKWELL OIL CO

LOCATION: 2806 COLORADO BLVD
IDAHO SPRINGS 80452

LEAKING INFORMATION

EVENT ID:	STATUS:	RELEASE DATE:	ALTERNATE NAME:
10802	CLOSED	2/18/2009 8:00	BLACKWELL OIL CO
COSTIS LINK:	http://costis.cdle.state.co.us/event.asp?h_id=10802		
9276	CLOSED	7/22/2003 9:24	TALL COUNTRY IDAHO SPRINGS
COSTIS LINK:	http://costis.cdle.state.co.us/event.asp?h_id=9276		
7377	CLOSED	4/1/1999	TALL COUNTRY IDAHO SPRINGS
COSTIS LINK:	http://costis.cdle.state.co.us/event.asp?h_id=7377		

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Solid Waste Facilities (SWF)

MAP ID# 97

Distance from Property: 0.11 mi. (581 ft.) NW

SITE INFORMATION

GEOSEARCH ID: 1588WTR

NAME: CDOT - EMPIRE JCT. MAINTENANCE

ADDRESS: 14764 HIGHWAY 40

EMPIRE, CO 80438

COUNTY: NOT REPORTED

CERTIFICATION ID: 1588

FACILITY TYPE: REGISTERED TIRE HAULER

TIRE RETAILER/WHOLESALE: YES

HAULER: NO

END USER: NO

COLLECTION: NO

PROCESSOR: NO

MONOFILL: NO

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Underground Storage Tank Facilities (UST)

[MAP ID# 97](#)

Distance from Property: 0.11 mi. (581 ft.) NW

FACILITY INFORMATION

FACILITY ID: 7415

NAME: CDOT EMPIRE

ADDRESS: HWY 40 MP 257.5
EMPIRE, CO 80438

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=7415

OWNER INFORMATION

OWNER ID: 1050

NAME: CDOT

ADDRESS: 18500 E COLFAX AVE
AURORA, CO 80011

TANK INFORMATION

TANK ID:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:	INSTALLATION DATE:
19557	UNDERGROUND STORAGE TANK	4 - DIESEL	10000	CLOSED	NOT REPORTED
19558	UNDERGROUND STORAGE TANK	6 - USED OIL (WASTE OIL)	500	CLOSED	NOT REPORTED
19559	UNDERGROUND STORAGE TANK	GASOLINE	10000	CLOSED	NOT REPORTED

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Leaking Storage Tank Facilities (LST)

[MAP ID# 97](#)

Distance from Property: 0.11 mi. (581 ft.) NW

FACILITY INFORMATION

UNIQUE ID: 7415LST

FACILITY ID: 7415

NAME: CDOT EMPIRE

ADDRESS: MP 257.55 HWY 40

EMPIRE, CO 80438

SITE NAME: CDOT EMPIRE JUNCTION FACILITY

LOCATION: MP 257.55 HWY 40
EMPIRE 80438

LEAKING INFORMATION

EVENT ID:

STATUS:

RELEASE DATE:

ALTERNATE NAME:

2499

CLOSED

9/8/1991

CDOT EMPIRE JUNCTION FACILITY

COSTIS LINK: http://costis.cdle.state.co.us/event.asp?h_id=2499

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Mineral Resource Data System (MRDS)

MAP ID# 98

Distance from Property: 0.11 mi. (581 ft.) SW

FACILITY INFORMATION

GEOSEARCH ID: 10117836

DEP ID: 10117836

MINE NAME: LITTLE HARRY

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: LITTLE HARRY

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 99

Distance from Property: 0.11 mi. (581 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10018278

DEP ID: 10018278

MINE NAME: UNKNOWN

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: OCCURRENCE

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

MATERIAL DETAILS

MATERIAL: GOLD

ORE OR GANGUE: ORE

NAME DETAILS

SITE NAME: UNKNOWN

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 100

Distance from Property: 0.11 mi. (581 ft.) S

FACILITY INFORMATION

GEOSEARCH ID: 10264294

DEP ID: 10264294

MINE NAME: ALKIRE TUNNEL

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: PUZZLER

STATUS: PREVIOUS

SITE NAME: ALKIRE TUNNEL

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 101 Distance from Property: 0.11 mi. (581 ft.) S

FACILITY INFORMATION

GEOSEARCH ID: 10264014

DEP ID: 10264014

MINE NAME: DUMONT PIT

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: SAND AND GRAVEL, CONS

COMMODITY TYPE: NON-METALLIC

COMMODITY GROUP: SAND AND GRAVEL

IMPORTANCE: PRIMARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: DUMONT PIT

STATUS: CURRENT

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Spills Listing (SPILLS)

MAP ID# 102

Distance from Property: 0.12 mi. (634 ft.) N

INCIDENT INFORMATION

CASE NUMBER: 2016-0089

NRC NUMBER: NOT REPORTED

SPILL DATE: 2/23/2016

SPILL LOCATION: CLEAR CREEK NEAR 2189 IDAHO SPRINGS RD EAST, IDAHO SPRINGS 08452

SPILL CITY/STATE/ZIP: IDAHO SPRINGS, CO 08452

SPILL COUNTY: CLEAR CREEK

RESPONSIBLE PARTY

NAME: UNKNOWN

ADDRESS: STREET NOT REPORTED
CITY NOT REPORTED, CO

COUNTY: NOT REPORTED

CONTACT: NOT REPORTED

PHONE: NOT REPORTED

INCIDENT DETAILS

SOURCE: UNKNOWN

SOURCE TYPE: DESCRIBE SOURCE

MEDIUM: WATER AND LAND

WATERWAY: NOT REPORTED

CAUSE: UNKNOWN

MATERIAL TYPE: UNKNOWN

MATERIAL DESCRIPTION:
NOT REPORTED

MATERIAL QUANTITY:
NOT REPORTED

WATER QUANTITY:
NOT REPORTED

CAUSE INFORMATION:

JASON FREDRICKS OF THE BLACK HAWK WATER TREATMENT PLANT REPORTED A STRONG AMMONIA/ORGANIC SMELL COMING FROM CLEAR CREEK IN IDAHO SPRINGS. THEY ARE CURRENTLY TESTING THE WATER FOR ABNORMAL LEVELS AND HAVE CLOSED INTAKES.

ACTION:

NOT REPORTED

RESPONSE COMMENTS:

NOT REPORTED

COMMENTS:

CLEAR CREEK EH

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Spills Listing (SPILLS)

MAP ID# 102

Distance from Property: 0.12 mi. (634 ft.) N

INCIDENT INFORMATION

CASE NUMBER: 2010-0441

NRC NUMBER: NOT REPORTED

SPILL DATE: 08/20/10

SPILL LOCATION: 1 MILE UPSTREAM OF THE WASTEWATER TREATMENT PLANT

SPILL CITY/STATE/ZIP: IDAHO SPRINGS, CO NOT REPORTED

SPILL COUNTY: CLEAR CREEK

RESPONSIBLE PARTY

NAME: CITY OF IDAHO SPRINGS

ADDRESS: 1711 MINER ST

IDAHO SPRINGS, CO 80452

COUNTY: CLEAR CREEK

CONTACT: CHRIS BROWNELL

PHONE: 303-567-4458

INCIDENT DETAILS

SOURCE: OTHER

SOURCE TYPE: BACKWASH BASIN

MEDIUM: WATER AND LAND

WATERWAY: CLEAR CREEK

CAUSE: OTHER

MATERIAL TYPE: INCIDENT WITH RELEASE

MATERIAL DESCRIPTION:

BACK WASH WATER

MATERIAL QUANTITY:

600 GALLONS

WATER QUANTITY:

300 G

CAUSE INFORMATION:

THEY PUMPED OUT THE WATER PLANT BACK WASH BASIN (WHICH IS CHEMICAL FREE), AND DUMPED THE WATER ONTO THEIR OWN PROPERTY, AS IS USUALLY DONE. THE WATER BROKE THE CONTAINMENT AND A FEW HUNDRED GALLONS WENT INTO CLEAR CREEK.

ACTION:

BLACK HAWK WAS CALLED AS A DOWNSTREAM USER.

RESPONSE COMMENTS:

CALLER'S E-MAIL: WWSUPER@IDAHOSPRINGSCO.COM

COMMENTS:

NOT REPORTED

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Spills Listing (SPILLS)

MAP ID# 103

Distance from Property: 0.12 mi. (634 ft.) NW

INCIDENT INFORMATION

CASE NUMBER: 2016-0379 NRC NUMBER: NOT REPORTED

SPILL DATE: 7/19/2016

SPILL LOCATION: 16TH AVE & COLORADO BLVD

SPILL CITY/STATE/ZIP: IDAHO SPRINGS, CO NOT REPORTED

SPILL COUNTY: CLEAR CREEK

RESPONSIBLE PARTY

NAME: AMERICAN CIVIL CONSTRUCTORS

ADDRESS: 4901 S. WINDEMERE ST.
LITTLETON, CO 80120

COUNTY: NOT REPORTED

CONTACT: BILL SEMBRAT

PHONE: 303-435-2797

INCIDENT DETAILS

SOURCE: OTHER

SOURCE TYPE: WATER LINE

MEDIUM: WATER AND LAND

WATERWAY: CLEAR CREEK

CAUSE: FAILURE EQUIPMENT

MATERIAL TYPE: PERMIT EXCEEDENCE

MATERIAL DESCRIPTION:

NOT REPORTED

PERMIT #COR 03P006

MATERIAL QUANTITY:

NOT REPORTED

WATER QUANTITY:

NOT REPORTED

CAUSE INFORMATION:

WHILE PUTTING AN EXTENSION ON AN 8-INCH WATER LINE, THE GATE VALVE BROKE AND RELEASED DOMESTIC WATER TO THE GOUND FOIR 10-15 MINUTES UNTIL THE TOWN OF IDAHO SPRINGS WAS ABLE TO SHUT OFF THE WATER. THE WATER RAN ACROSS GROUND ON THE CONSTRUCTION SITE, OVERWHELMING EROSION CONTROLS, AND RAN INTO CLEAR CREEK. THE PERMIT # WAS COR 03P006.

ACTION:

NOT REPORTED

RESPONSE COMMENTS:

NOT REPORTED

COMMENTS:

CLEAR CREEK COUNTY EH:

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Spills Listing (SPILLS)

MAP ID# 103 Distance from Property: 0.12 mi. (634 ft.) NW

INCIDENT INFORMATION

CASE NUMBER: 2008-0170 NRC NUMBER: NOT REPORTED

SPILL DATE: 03/20/08

SPILL LOCATION: COLORADO BLVD & 16TH AVE

SPILL CITY/STATE/ZIP: IDAHO SPRINGS, CO 80452

SPILL COUNTY: CLEAR CREEK

RESPONSIBLE PARTY

NAME: IDAHO SPRINGS UTILITIES

ADDRESS: STREET NOT REPORTED

IDAHO SPRINGS, CO 80452

COUNTY: CLEAR CREEK

CONTACT: RANDY RASSMUSSEN

PHONE: NOT REPORTED

INCIDENT DETAILS

SOURCE: SEWER SYSTEM

SOURCE TYPE: SANITARY SEWER/LIFT STATION

MEDIUM: NOT REPORTED

WATERWAY: CLEAR CREEK

CAUSE: FAILURE EQUIPMENT

MATERIAL TYPE: SANITARY SEWER OVERFLOW

MATERIAL DESCRIPTION:

SANITARY SEWER OVERFLOW

MATERIAL QUANTITY:

2300 GALLONS

WATER QUANTITY:

800 G

CAUSE INFORMATION:

GROUT FROM REGROUTING OPERATION ENTERED MANHOLE, RESULTING IN BLOCKAGE, RELEASE, AND OVERFLOW.

MATERIAL RELEASED TO GROUND AND TO CLEAR CREEK.

ACTION:

RANDY RASSMUSSEN ACTIVATED DOWN STREAM USER NOTIFICATION CALL DOWN LIST. CONTRACTOR CALLED. CLEAN FILL DIRT APPLIED TO STREET AND BANK OF CLEAR CREEK TO ABSORB RELEASED MATERIAL. SSO UNDER CONTROL AT 8:30 AT 03/21/08.

RESPONSE COMMENTS:

NOT REPORTED

COMMENTS:

NOT REPORTED

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Aboveground Storage Tank Facilities (AST)

[MAP ID# 104](#) Distance from Property: 0.12 mi. (634 ft.) N

FACILITY INFORMATION

FACILITY ID: 16931
NAME: YY RENTAL
ADDRESS: 2712 COLORADO BLVD
IDAHO SPRINGS, CO 80452

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=16931

OWNER INFORMATION

OWNER ID: 19523
NAME: LPG UNKNOWN OWNER
ADDRESS: DIVISION OF OIL & PUBLIC SAFETY
DENVER, CO 80202

TANK INFORMATION

TANK ID:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:	INSTALLATION DATE:
37071	LIQUEFIED PETROLEUM GAS -LPG ABOVEGROUND		500	CLOSED	NOT REPORTED
37599	LIQUEFIED PETROLEUM GAS -LPG ABOVEGROUND		1000	CLOSED	NOT REPORTED

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Aboveground Storage Tank Facilities (AST)

MAP ID# 105 Distance from Property: 0.12 mi. (634 ft.) SW

FACILITY INFORMATION

FACILITY ID: 12078
NAME: ARAPAHO NATIONAL FOREST
ADDRESS: I-70 E FRONTAGE RD
IDAHO SPRINGS, CO 80452

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=12078

OWNER INFORMATION

OWNER ID: 5509
NAME: US FOREST SERVICE
ADDRESS: PO BOX 3307
IDAHO SPRINGS, CO 80452

TANK INFORMATION

TANK ID:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:	INSTALLATION DATE:
NR	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED

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Mineral Resource Data System (MRDS)

MAP ID# 106 Distance from Property: 0.12 mi. (634 ft.) SW

FACILITY INFORMATION

GEOSEARCH ID: 10142231

DEP ID: 10142231

MINE NAME: GLADSTONE TUNNEL

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: GLADSTONE TUNNEL

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 107 Distance from Property: 0.12 mi. (634 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10142726

DEP ID: 10142726

MINE NAME: HYLAND

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: HYLAND

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 108 Distance from Property: 0.12 mi. (634 ft.) SW

FACILITY INFORMATION

GEOSEARCH ID: 10141492

DEP ID: 10141492

MINE NAME: FAIRVIEW

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: FAIRVIEW

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 108 Distance from Property: 0.12 mi. (634 ft.) SW

FACILITY INFORMATION

GEOSEARCH ID: 10117281

DEP ID: 10117281

MINE NAME: FAIRFIELD TUNNEL

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: FAIRFIELD TUNNEL

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 109 Distance from Property: 0.12 mi. (634 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10167060

DEP ID: 10167060

MINE NAME: SOUND SHAFT

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: SOUND SHAFT

STATUS: CURRENT

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Historical Solid Waste Landfills (HISTSWLF)

MAP ID# 110

Distance from Property: 0.13 mi. (686 ft.) S

SITE INFORMATION

UNIQUE ID: 00070-0001096

NAME: SILVER SPRUCE MILL

ADDRESS: ADDRESS NOT REPORTED

CITY NOT REPORTED, CO

DIRECTIONS: NOT REPORTED

COUNTY: CLEAR CREEK

SITE DETAILS

AGENCY SOURCE: NOT REPORTED

DETAIL1:

S. CLEAR CREEK #4,6,7,8 UNKNOWN. ; TRS- T03S R72W S32

DETAIL2:

TYPE- MILL WASTE; FILL- TAILINGS. ; OPER/OWNER/OTHR- , ,

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Spills Listing (SPILLS)

[MAP ID# 111](#)

Distance from Property: 0.13 mi. (686 ft.) N

INCIDENT INFORMATION

CASE NUMBER: 2006-620 NRC NUMBER: NOT REPORTED

SPILL DATE: 06/22/06

SPILL LOCATION: 920 COLORADO BLVD

SPILL CITY/STATE/ZIP: IDAHO SPRINGS, CO NOT REPORTED

SPILL COUNTY: CLEAR CREEK

RESPONSIBLE PARTY

NAME: JOHNS ROPER (AKA MICHAEL MCCOMMON OR RYAN FARMER)

ADDRESS: STREET NOT REPORTED

IDAHO SPRINGS, CO

COUNTY: CLEAR CREEK

CONTACT: NOT REPORTED

PHONE: NOT REPORTED

INCIDENT DETAILS

SOURCE: FIXED FACILITY

SOURCE TYPE: METH LAB

MEDIUM: FIXED FACILITY

WATERWAY: NOT REPORTED

CAUSE: CRIMINAL INTENT

MATERIAL TYPE: METH LAB

MATERIAL DESCRIPTION:
METH LAB RELATED

MATERIAL QUANTITY:
NOT REPORTED

WATER QUANTITY:
NOT REPORTED

CAUSE INFORMATION:

NOT REPORTED

ACTION:

SUSECT WAS TAKEN INTO CUSTODY ON 6/26/06. SEISURE OF METH LAB RELATED MATERIALS.

RESPONSE COMMENTS:

NOT REPORTED

COMMENTS:

NOT REPORTED

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Clandestine Drug Laboratory Locations (CDL)

[MAP ID# 111](#)

Distance from Property: 0.13 mi. (686 ft.) N

SITE INFORMATION

ID#: 448385837

ADDRESS: 920 COLORADO BOULEVARD

CITY: IDAHO SPRINGS

STATE: CO

COUNTY: CLEAR CREEK

SEIZURE DATE: 6/22/2006

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Mineral Resource Data System (MRDS)

MAP ID# 112 Distance from Property: 0.13 mi. (686 ft.) S

FACILITY INFORMATION

GEOSEARCH ID: 10264133

DEP ID: 10264133

MINE NAME: IDAHO SPRINGS

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: UNKNOWN

COMMODITY DETAILS

COMMODITY: GEOTHERMAL

COMMODITY TYPE: ENERGY

COMMODITY GROUP: GEOTHERMAL

IMPORTANCE: PRIMARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: IDAHO SPRINGS

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 113 Distance from Property: 0.13 mi. (686 ft.) S

FACILITY INFORMATION

GEOSEARCH ID: 10117861

DEP ID: 10117861

MINE NAME: BELLEVUE-ROCHESTER

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

COMMODITY: LEAD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: LEAD

IMPORTANCE: TERTIARY

COMMODITY: URANIUM

COMMODITY TYPE: METALLIC

COMMODITY GROUP: URANIUM

IMPORTANCE: TERTIARY

COMMODITY: ZINC

COMMODITY TYPE: METALLIC

COMMODITY GROUP: ZINC

IMPORTANCE: TERTIARY

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: COPPER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: COPPER

IMPORTANCE: SECONDARY

MATERIAL DETAILS

MATERIAL: PYRITE

ORE OR GANGUE: ORE

Mineral Resource Data System (MRDS)

MATERIAL: **SPHALERITE**

ORE OR GANGUE: **ORE**

MATERIAL: **URANINITE**

ORE OR GANGUE: **ORE**

MATERIAL: **QUARTZ**

ORE OR GANGUE: **GANGUE**

MATERIAL: **GALENA**

ORE OR GANGUE: **ORE**

NAME DETAILS

SITE NAME: **BELLEVUE-ROCHESTER**

STATUS: **CURRENT**

SITE NAME: **BELLVUE-HUDSON GROUP**

STATUS: **PREVIOUS**

SITE NAME: **ROCHESTER,ANNAMOSA,GOLD VAL.,**

STATUS: **PREVIOUS**

SITE NAME: **BELLEVUE MINE**

STATUS: **PREVIOUS**

SITE NAME: **ROCHESTER TUNNEL**

STATUS: **PREVIOUS**

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Mineral Resource Data System (MRDS)

MAP ID# 114 Distance from Property: 0.14 mi. (739 ft.) S

FACILITY INFORMATION

GEOSEARCH ID: 10214559

DEP ID: 10214559

MINE NAME: FREELAND TUNNEL

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

MATERIAL DETAILS

MATERIAL: PYRITE

ORE OR GANGUE: ORE

NAME DETAILS

SITE NAME: FREELAND TUNNEL

STATUS: CURRENT

SITE NAME: MCCLELLAND TUNNEL

STATUS: PREVIOUS

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Mineral Resource Data System (MRDS)

MAP ID# 115 Distance from Property: 0.14 mi. (739 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10018280

DEP ID: 10018280

MINE NAME: UNKNOWN

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: OCCURRENCE

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

MATERIAL DETAILS

MATERIAL: GOLD

ORE OR GANGUE: ORE

NAME DETAILS

SITE NAME: UNKNOWN

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 116 Distance from Property: 0.14 mi. (739 ft.) S

FACILITY INFORMATION

GEOSEARCH ID: 10214439

DEP ID: 10214439

MINE NAME: THIRD BELLEVUE

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: LEAD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: LEAD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

COMMODITY: ZINC

COMMODITY TYPE: METALLIC

COMMODITY GROUP: ZINC

IMPORTANCE: TERTIARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: THIRD BELLEVUE

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 117 Distance from Property: 0.14 mi. (739 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10288136

DEP ID: 10288136

MINE NAME: TORREY 2 TUNNEL

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: TORREY 2 TUNNEL

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 118 Distance from Property: 0.14 mi. (739 ft.) SW

FACILITY INFORMATION

GEOSEARCH ID: 10287538

DEP ID: 10287538

MINE NAME: PRIDE OF THE WEST

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: PRIDE OF THE WEST

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 119 Distance from Property: 0.14 mi. (739 ft.) SW

FACILITY INFORMATION

GEOSEARCH ID: 10214630

DEP ID: 10214630

MINE NAME: COLUMBINE

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: COLUMBINE

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 120 Distance from Property: 0.15 mi. (792 ft.) SW

FACILITY INFORMATION

GEOSEARCH ID: 10214610

DEP ID: 10214610

MINE NAME: LINCOLN

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: SO.LINCOLN

STATUS: PREVIOUS

SITE NAME: PLATT

STATUS: PREVIOUS

SITE NAME: RUBY

STATUS: PREVIOUS

SITE NAME: LINCOLN

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 120 Distance from Property: 0.14 mi. (739 ft.) SW

FACILITY INFORMATION

GEOSEARCH ID: 10239254

DEP ID: 10239254

MINE NAME: JOSEPHINE SHAFT & TUNNEL

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

MATERIAL DETAILS

MATERIAL: PYRITE

ORE OR GANGUE: ORE

MATERIAL: QUARTZ

ORE OR GANGUE: GANGUE

NAME DETAILS

SITE NAME: JOSEPHINE SHAFT & TUNNEL

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 121 Distance from Property: 0.15 mi. (792 ft.) SW

FACILITY INFORMATION

GEOSEARCH ID: 10017203

DEP ID: 10017203

MINE NAME: GEORGETOWN

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: OCCURRENCE

COMMODITY DETAILS

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: PRIMARY

MATERIAL DETAILS

MATERIAL: SILVER

ORE OR GANGUE: ORE

NAME DETAILS

SITE NAME: GEORGETOWN

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 121 Distance from Property: 0.15 mi. (792 ft.) SW

FACILITY INFORMATION

GEOSEARCH ID: 10264291

DEP ID: 10264291

MINE NAME: GEORGETOWN

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: PRIMARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: GEORGETOWN

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

[MAP ID# 122](#) Distance from Property: 0.15 mi. (792 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10117219

DEP ID: 10117219

MINE NAME: HUKILL

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: HUKILL

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 123 Distance from Property: 0.15 mi. (792 ft.) SW

FACILITY INFORMATION

GEOSEARCH ID: 10190519

DEP ID: 10190519

MINE NAME: PUZZLER

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: MOLYBDENUM

COMMODITY TYPE: METALLIC

COMMODITY GROUP: MOLYBDENUM

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

COMMODITY: TUNGSTEN

COMMODITY TYPE: METALLIC

COMMODITY GROUP: TUNGSTEN

IMPORTANCE: TERTIARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: EARL OF KENT

STATUS: PREVIOUS

SITE NAME: PUZZLER

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 123 Distance from Property: 0.15 mi. (792 ft.) SW

FACILITY INFORMATION

GEOSEARCH ID: 10018154

DEP ID: 10018154

MINE NAME: PUZZLER

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PRODUCER

COMMODITY DETAILS

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: PRIMARY

COMMODITY: MOLYBDENUM

COMMODITY TYPE: METALLIC

COMMODITY GROUP: MOLYBDENUM

IMPORTANCE: PRIMARY

MATERIAL DETAILS

MATERIAL: SILVER

ORE OR GANGUE: ORE

NAME DETAILS

SITE NAME: PUZZLER

STATUS: CURRENT

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Solid Waste Facilities (SWF)

MAP ID# 124 Distance from Property: 0.15 mi. (792 ft.) E

SITE INFORMATION

GEOSEARCH ID: 1623WTR

NAME: CDOT - HIDDEN VALLEY MAINTENANCE

ADDRESS: 2407 E. COUNTY RD 314

IDAHO SPRINGS, CO 80452

COUNTY: NOT REPORTED

CERTIFICATION ID: 1623

FACILITY TYPE: REGISTERED TIRE HAULER

TIRE RETAILER/WHOLESALE: YES

HAULER: NO

END USER: NO

COLLECTION: NO

PROCESSOR: NO

MONOFILL: NO

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Mineral Resource Data System (MRDS)

MAP ID# 125 Distance from Property: 0.16 mi. (845 ft.) S

FACILITY INFORMATION

GEOSEARCH ID: 10190784

DEP ID: 10190784

MINE NAME: NEW TUNNEL

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: EARL OF KENT

STATUS: PREVIOUS

SITE NAME: NEW TUNNEL

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 126 Distance from Property: 0.16 mi. (845 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10214665

DEP ID: 10214665

MINE NAME: ATLANTIC,

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

COMMODITY: COPPER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: COPPER

IMPORTANCE: SECONDARY

MATERIAL DETAILS

MATERIAL: PYRITE

ORE OR GANGUE: ORE

NAME DETAILS

SITE NAME: ATLANTIC,

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

[MAP ID# 127](#) Distance from Property: 0.17 mi. (898 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10263715

DEP ID: 10263715

MINE NAME: TWO KINGS

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: TWO KINGS

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 128 Distance from Property: 0.18 mi. (950 ft.) S

FACILITY INFORMATION

GEOSEARCH ID: 10190569

DEP ID: 10190569

MINE NAME: ACCORD

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: ACCORD

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 129 Distance from Property: 0.18 mi. (950 ft.) NW

FACILITY INFORMATION

GEOSEARCH ID: 10263776

DEP ID: 10263776

MINE NAME: ALBION

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: LEAD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: LEAD

IMPORTANCE: TERTIARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

COMMODITY: ZINC

COMMODITY TYPE: METALLIC

COMMODITY GROUP: ZINC

IMPORTANCE: TERTIARY

COMMODITY: COPPER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: COPPER

IMPORTANCE: TERTIARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: ALBION

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 130

Distance from Property: 0.18 mi. (950 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10190190

DEP ID: 10190190

MINE NAME: ARGO

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: LEAD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: LEAD

IMPORTANCE: SECONDARY

COMMODITY: COPPER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: COPPER

IMPORTANCE: SECONDARY

COMMODITY: ZINC

COMMODITY TYPE: METALLIC

COMMODITY GROUP: ZINC

IMPORTANCE: SECONDARY

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: TERTIARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

COMMODITY: URANIUM

COMMODITY TYPE: METALLIC

COMMODITY GROUP: URANIUM

IMPORTANCE: TERTIARY

COMMODITY: VANADIUM

COMMODITY TYPE: METALLIC

COMMODITY GROUP: VANADIUM

IMPORTANCE: TERTIARY

Mineral Resource Data System (MRDS)

MATERIAL DETAILS

MATERIAL: **GALENA**

ORE OR GANGUE: **ORE**

MATERIAL: **PYRITE**

ORE OR GANGUE: **ORE**

NAME DETAILS

SITE NAME: **ARGO**

STATUS: **CURRENT**

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Mineral Resource Data System (MRDS)

MAP ID# 130 Distance from Property: 0.18 mi. (950 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10018343

DEP ID: 10018343

MINE NAME: OPHIR, ARGO

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: PRIMARY

MATERIAL DETAILS

MATERIAL: SILVER

ORE OR GANGUE: ORE

MATERIAL: GOLD

ORE OR GANGUE: ORE

NAME DETAILS

SITE NAME: OPHIR, ARGO

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 130 Distance from Property: 0.18 mi. (950 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10287620

DEP ID: 10287620

MINE NAME: OPHIR-ARGO

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: OPHIR-ARGO

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 131 Distance from Property: 0.18 mi. (950 ft.) NE

FACILITY INFORMATION

GEOSEARCH ID: 10117880

DEP ID: 10117880

MINE NAME: MAY QUEEN

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS

MATERIAL: PYRITE

ORE OR GANGUE: ORE

MATERIAL: QUARTZ

ORE OR GANGUE: GANGUE

NAME DETAILS

SITE NAME: MAY QUEEN

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 132 Distance from Property: 0.18 mi. (950 ft.) NE

FACILITY INFORMATION

GEOSEARCH ID: 10239326

DEP ID: 10239326

MINE NAME: DUBUQUE

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: DUBUQUE

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 133 Distance from Property: 0.19 mi. (1,003 ft.) S

FACILITY INFORMATION

GEOSEARCH ID: 10287351

DEP ID: 10287351

MINE NAME: MORNING STAR TUNNEL

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: COPPER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: COPPER

IMPORTANCE: TERTIARY

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: LEAD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: LEAD

IMPORTANCE: TERTIARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

COMMODITY: ZINC

COMMODITY TYPE: METALLIC

COMMODITY GROUP: ZINC

IMPORTANCE: TERTIARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: MORNING STAR TUNNEL

STATUS: CURRENT

SITE NAME: ARIZONA

STATUS: PREVIOUS

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Mineral Resource Data System (MRDS)

MAP ID# 134 Distance from Property: 0.19 mi. (1,003 ft.) NW

FACILITY INFORMATION

GEOSEARCH ID: 10190727

DEP ID: 10190727

MINE NAME: KANAWHA

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS

MATERIAL: PYRITE

ORE OR GANGUE: ORE

MATERIAL: CHALCOPYRITE

ORE OR GANGUE: ORE

MATERIAL: SPHALERITE

ORE OR GANGUE: ORE

MATERIAL: TENNANTITE

ORE OR GANGUE: ORE

MATERIAL: GALENA

ORE OR GANGUE: ORE

NAME DETAILS

SITE NAME: KANAWHA

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 135 Distance from Property: 0.19 mi. (1,003 ft.) SW

FACILITY INFORMATION

GEOSEARCH ID: 10142255

DEP ID: 10142255

MINE NAME: WALTHAM

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS

MATERIAL: PYRITE

ORE OR GANGUE: ORE

MATERIAL: GALENA

ORE OR GANGUE: ORE

MATERIAL: QUARTZ

ORE OR GANGUE: GANGUE

NAME DETAILS

SITE NAME: WALTHAM

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 136 Distance from Property: 0.19 mi. (1,003 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10117156

DEP ID: 10117156

MINE NAME: OLD CHIEF SHAFT

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: OLD CHIEF SHAFT

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 137 Distance from Property: 0.19 mi. (1,003 ft.) S

FACILITY INFORMATION

GEOSEARCH ID: 10190526

DEP ID: 10190526

MINE NAME: ELKY TUNNEL

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: ELKY TUNNEL

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 138 Distance from Property: 0.2 mi. (1,056 ft.) SW

FACILITY INFORMATION

GEOSEARCH ID: 10264244

DEP ID: 10264244

MINE NAME: STAR MINE

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PROSPECT

COMMODITY DETAILS

COMMODITY: URANIUM

COMMODITY TYPE: METALLIC

COMMODITY GROUP: URANIUM

IMPORTANCE: TERTIARY

MATERIAL DETAILS

MATERIAL: TORBERNITE

ORE OR GANGUE: UNKNOWN

MATERIAL: URANINITE

ORE OR GANGUE: UNKNOWN

NAME DETAILS

SITE NAME: STAR MINE

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 139 Distance from Property: 0.2 mi. (1,056 ft.) SW

FACILITY INFORMATION

GEOSEARCH ID: 10016001

DEP ID: 10016001

MINE NAME: LINCOLN

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PRODUCER

COMMODITY DETAILS

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: PRIMARY

COMMODITY: LEAD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: LEAD

IMPORTANCE: PRIMARY

COMMODITY: COPPER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: COPPER

IMPORTANCE: PRIMARY

COMMODITY: ZINC

COMMODITY TYPE: METALLIC

COMMODITY GROUP: ZINC

IMPORTANCE: PRIMARY

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

MATERIAL DETAILS

MATERIAL: GOLD

ORE OR GANGUE: ORE

MATERIAL: SILVER

ORE OR GANGUE: ORE

MATERIAL: PYRITE

ORE OR GANGUE: ORE

Mineral Resource Data System (MRDS)

MATERIAL: **GALENA**
ORE OR GANGUE: **ORE**

MATERIAL: **SPHALERITE**
ORE OR GANGUE: **ORE**

NAME DETAILS

SITE NAME: **NEW**
STATUS: **PREVIOUS**
SITE NAME: **LINCOLN**
STATUS: **CURRENT**
SITE NAME: **ALKIRE**
STATUS: **PREVIOUS**
SITE NAME: **LUCKY FIND**
STATUS: **PREVIOUS**
SITE NAME: **ELKY**
STATUS: **PREVIOUS**
SITE NAME: **OHIO**
STATUS: **PREVIOUS**
SITE NAME: **FRANKLIN D**
STATUS: **PREVIOUS**
SITE NAME: **ESTRELLA**
STATUS: **PREVIOUS**
SITE NAME: **LEGAL TENDER**
STATUS: **PREVIOUS**
SITE NAME: **RANGE LINE**
STATUS: **PREVIOUS**

SITE NAME: **QUIJA**
STATUS: **PREVIOUS**
SITE NAME: **COMMONWEALTH**
STATUS: **PREVIOUS**
SITE NAME: **KENT**
STATUS: **PREVIOUS**
SITE NAME: **SILENT FRIEND**
STATUS: **PREVIOUS**
SITE NAME: **BIG DIPPER**
STATUS: **PREVIOUS**
SITE NAME: **WESTERN SYNDICATE**
STATUS: **PREVIOUS**
SITE NAME: **EARL OF KENT**
STATUS: **PREVIOUS**
SITE NAME: **PUZZLER**
STATUS: **PREVIOUS**
SITE NAME: **MATTIE JACK**
STATUS: **PREVIOUS**

Mineral Resource Data System (MRDS)

SITE NAME: **STARTLE**

STATUS: **PREVIOUS**

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Surface Mining Control and Reclamation Act Sites (SMCRA)

MAP ID# 140

Distance from Property: 0.2 mi. (1,056 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: **CO010041**

AMLIS KEY: **CO010041**

PROBLEM AREA NUMBER: **10041**

PROBLEM AREA NAME: **DEVILS CANYON PROJECT**

ADDRESS: **CLEAR CREEK COUNTY**

DUMONT, CO 80436

COUNTY: **CLEAR CREEK**

PLAN UNIT NUMBER: **599**

PLAN UNIT NAME: **IDAHO SPRINGS**

FACILITY DETAIL(S)

FUNDING SOURCE/PROGRAM: **NCA**

PROBLEM TYPE: **P**

PROBLEM PRIORITY: **1**

MINING TYPE: **B**

ORE TYPES: **G**

DATE PREPARED: **8/19/2008 0:00**

DATE REVISED: **9/1/2010 0:00**

PRIVATE OWNER %: **100**

STATE OWNER %: **NOT REPORTED**

OTHER FEDERAL OWNER %: **NOT REPORTED**

PARK SERVICE OWNER %: **NOT REPORTED**

FOREST SERVICE OWNER %: **NOT REPORTED**

INDIAN OWNER %: **NOT REPORTED**

BLM OWNER %: **NOT REPORTED**

UNFUNDED STANDARD UNITS: **0**

UNFUNDED COSTS: **0**

UNFUNDED GPRA ACRES: **0**

UNFUNDED METRIC UNITS: **0**

FUNDED STANDARD UNITS: **0**

FUNDED COSTS: **0**

FUNDED GPRA ACRES: **0**

FUNDED METRIC UNITS: **0**

COMPLETED STANDARD UNITS: **14**

COMPLETED COSTS: **45334**

COMPLETED GPRA ACRES: **1.4**

COMPLETED METRIC UNITS: **14**

FUNDING SOURCE/PROGRAM: **NCA**

PROBLEM TYPE: **VO**

PROBLEM PRIORITY: **1**

Surface Mining Control and Reclamation Act Sites (SMCRA)

MINING TYPE: **B**
ORE TYPES: **G**
DATE PREPARED: **8/19/2008 0:00**
DATE REVISED: **9/1/2010 0:00**
PRIVATE OWNER %: **100**
STATE OWNER %: **NOT REPORTED**
OTHER FEDERAL OWNER %: **NOT REPORTED**
PARK SERVICE OWNER %: **NOT REPORTED**
FOREST SERVICE OWNER %: **NOT REPORTED**
INDIAN OWNER %: **NOT REPORTED**
BLM OWNER %: **NOT REPORTED**
UNFUNDED STANDARD UNITS: **0**
UNFUNDED COSTS: **0**
UNFUNDED GPRA ACRES: **0**
UNFUNDED METRIC UNITS: **0**
FUNDED STANDARD UNITS: **0**
FUNDED COSTS: **0**
FUNDED GPRA ACRES: **0**
FUNDED METRIC UNITS: **0**
COMPLETED STANDARD UNITS: **12**
COMPLETED COSTS: **35133**
COMPLETED GPRA ACRES: **1.2**
COMPLETED METRIC UNITS: **12**

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Mineral Resource Data System (MRDS)

MAP ID# 141

Distance from Property: 0.2 mi. (1,056 ft.) S

FACILITY INFORMATION

GEOSEARCH ID: 10190352

DEP ID: 10190352

MINE NAME: DE CAPRIVI MINE

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: LEAD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: LEAD

IMPORTANCE: PRIMARY

COMMODITY: ZINC

COMMODITY TYPE: METALLIC

COMMODITY GROUP: ZINC

IMPORTANCE: TERTIARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS

MATERIAL: SPHALERITE

ORE OR GANGUE: ORE

MATERIAL: PYRITE

ORE OR GANGUE: ORE

NAME DETAILS

SITE NAME: CLIMAX TUNNEL

STATUS: PREVIOUS

SITE NAME: DE CAPRIVI MINE

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 142 Distance from Property: 0.21 mi. (1,109 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10214272

DEP ID: 10214272

MINE NAME: BRONABER

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS

MATERIAL: PYRITE

ORE OR GANGUE: ORE

MATERIAL: CHALCOPYRITE

ORE OR GANGUE: ORE

NAME DETAILS

SITE NAME: BRONABER

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 143 Distance from Property: 0.21 mi. (1,109 ft.) NE

FACILITY INFORMATION

GEOSEARCH ID: 10117243

DEP ID: 10117243

MINE NAME: SYRACUSE

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: COPPER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: COPPER

IMPORTANCE: SECONDARY

COMMODITY: LEAD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: LEAD

IMPORTANCE: SECONDARY

COMMODITY: ZINC

COMMODITY TYPE: METALLIC

COMMODITY GROUP: ZINC

IMPORTANCE: SECONDARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS

MATERIAL: PYRITE

ORE OR GANGUE: ORE

MATERIAL: CHALCOPYRITE

ORE OR GANGUE: ORE

MATERIAL: TENNANTITE

ORE OR GANGUE: ORE

Mineral Resource Data System (MRDS)

NAME DETAILS

SITE NAME: SYRACUSE

STATUS: CURRENT

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Clandestine Drug Laboratory Locations (CDL)

[MAP ID# 144](#) Distance from Property: 0.21 mi. (1,109 ft.) SW

SITE INFORMATION

GGESEARCH ID: 3495968975

LAB NUM: NOT REPORTED

LOCATION: NOT REPORTED

SHAWNEE, CO 80475

COUNTY: NOT REPORTED

LOCATION TYPE: NOT REPORTED

DATE: 1/3/2008

JURISDICTION: NOT REPORTED

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Mineral Resource Data System (MRDS)

MAP ID# 145 Distance from Property: 0.22 mi. (1,162 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10287964

DEP ID: 10287964

MINE NAME: SUTRO COMSTOCK

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: SUTRO COMSTOCK

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 146 Distance from Property: 0.22 mi. (1,162 ft.) S

FACILITY INFORMATION

GEOSEARCH ID: 10214214

DEP ID: 10214214

MINE NAME: FRANKLIN D TUNNEL

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: FRANKLIN D TUNNEL

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 147 Distance from Property: 0.22 mi. (1,162 ft.) SW

FACILITY INFORMATION

GEOSEARCH ID: 10018277

DEP ID: 10018277

MINE NAME: ROCKFORD, LUCANIA, BERRY

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: PRIMARY

MATERIAL DETAILS

MATERIAL: GOLD

ORE OR GANGUE: ORE

MATERIAL: SILVER

ORE OR GANGUE: ORE

NAME DETAILS

SITE NAME: ROCKFORD, LUCANIA, BERRY

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 147 Distance from Property: 0.22 mi. (1,162 ft.) SW

FACILITY INFORMATION

GEOSEARCH ID: 10287700

DEP ID: 10287700

MINE NAME: ROCKFORD

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: COPPER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: COPPER

IMPORTANCE: SECONDARY

COMMODITY: LEAD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: LEAD

IMPORTANCE: SECONDARY

COMMODITY: ZINC

COMMODITY TYPE: METALLIC

COMMODITY GROUP: ZINC

IMPORTANCE: SECONDARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: BERRY

STATUS: PREVIOUS

SITE NAME: ROCKFORD

STATUS: CURRENT

SITE NAME: LUCANIA

STATUS: PREVIOUS

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Mineral Resource Data System (MRDS)

MAP ID# 148 Distance from Property: 0.22 mi. (1,162 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10166482

DEP ID: 10166482

MINE NAME: STELLA-INDEPENDENCE SHAFT

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: STELLA-INDEPENDENCE SHAFT

STATUS: CURRENT

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Clandestine Drug Laboratory Locations (CDL)

[MAP ID# 149](#)

Distance from Property: 0.22 mi. (1,162 ft.) N

SITE INFORMATION

ID#: 863187168

ADDRESS: 1938 WALL ST

CITY: IDAHO SPRINGS

STATE: CO

COUNTY: CLEAR CREEK

SEIZURE DATE: 4/15/2005

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Mineral Resource Data System (MRDS)

MAP ID# 150 Distance from Property: 0.23 mi. (1,214 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10214537

DEP ID: 10214537

MINE NAME: GOLDEN CALF SHAFT

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: SECONDARY

COMMODITY: COPPER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: COPPER

IMPORTANCE: SECONDARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: GOLDEN CALF SHAFT

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 150 Distance from Property: 0.23 mi. (1,214 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10117833

DEP ID: 10117833

MINE NAME: GOLDEN CALF MINING

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: COPPER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: COPPER

IMPORTANCE: PRIMARY

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: TERTIARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: GOLDEN CALF MINING

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 151 Distance from Property: 0.24 mi. (1,267 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10166533

DEP ID: 10166533

MINE NAME: HELIOTROPE TUNNEL

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: HELIOTROPE TUNNEL

STATUS: CURRENT

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Surface Mining Control and Reclamation Act Sites (SMCRA)

MAP ID# 151 Distance from Property: 0.24 mi. (1,267 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: **CO000783**
AMLIS KEY: **CO000783**
PROBLEM AREA NUMBER: **783**
PROBLEM AREA NAME: **HIAWATHA GULCH PHASE II**
ADDRESS: **CLEAR CREEK COUNTY**
DUMONT, CO 80436
COUNTY: **CLEAR CREEK**
PLAN UNIT NUMBER: **9910**
PLAN UNIT NAME: **CLEAR CREEK**

FACILITY DETAIL(S)

FUNDING SOURCE/PROGRAM: **NCA**
PROBLEM TYPE: **P**
PROBLEM PRIORITY: **1**
MINING TYPE: **U**
ORE TYPES: **GS**
DATE PREPARED: **7/3/2014 0:00**
DATE REVISED: **11/18/2015 12:13**
PRIVATE OWNER %: **100**
STATE OWNER %: **0**
OTHER FEDERAL OWNER %: **0**
PARK SERVICE OWNER %: **0**
FOREST SERVICE OWNER %: **0**
INDIAN OWNER %: **0**
BLM OWNER %: **0**
UNFUNDED STANDARD UNITS: **0**
UNFUNDED COSTS: **0**
UNFUNDED GPRA ACRES: **0**
UNFUNDED METRIC UNITS: **0**
FUNDED STANDARD UNITS: **0**
FUNDED COSTS: **0**
FUNDED GPRA ACRES: **0**
FUNDED METRIC UNITS: **0**
COMPLETED STANDARD UNITS: **5**
COMPLETED COSTS: **16658.3**
COMPLETED GPRA ACRES: **0.5**
COMPLETED METRIC UNITS: **5**

FUNDING SOURCE/PROGRAM: **NCA**
PROBLEM TYPE: **VO**
PROBLEM PRIORITY: **1**

Surface Mining Control and Reclamation Act Sites (SMCRA)

MINING TYPE: **U**
ORE TYPES: **GS**
DATE PREPARED: **7/3/2014 0:00**
DATE REVISED: **11/18/2015 12:13**
PRIVATE OWNER %: **100**
STATE OWNER %: **0**
OTHER FEDERAL OWNER %: **0**
PARK SERVICE OWNER %: **0**
FOREST SERVICE OWNER %: **0**
INDIAN OWNER %: **0**
BLM OWNER %: **0**
UNFUNDED STANDARD UNITS: **0**
UNFUNDED COSTS: **0**
UNFUNDED GPRA ACRES: **0**
UNFUNDED METRIC UNITS: **0**
FUNDED STANDARD UNITS: **0**
FUNDED COSTS: **0**
FUNDED GPRA ACRES: **0**
FUNDED METRIC UNITS: **0**
COMPLETED STANDARD UNITS: **1**
COMPLETED COSTS: **2189.7**
COMPLETED GPRA ACRES: **0.1**
COMPLETED METRIC UNITS: **1**

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Mineral Resource Data System (MRDS)

MAP ID# 151 Distance from Property: 0.24 mi. (1,267 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10214321

DEP ID: 10214321

MINE NAME: MONITOR SHAFT

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: MONITOR SHAFT

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 152 Distance from Property: 0.24 mi. (1,267 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10117252

DEP ID: 10117252

MINE NAME: AURUM

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS

MATERIAL: PYRITE

ORE OR GANGUE: ORE

MATERIAL: SPHALERITE

ORE OR GANGUE: ORE

MATERIAL: TENNANTITE

ORE OR GANGUE: ORE

MATERIAL: QUARTZ

ORE OR GANGUE: GANGUE

MATERIAL: CHALCOPYRITE

ORE OR GANGUE: ORE

NAME DETAILS

SITE NAME: AURUM

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 153 Distance from Property: 0.25 mi. (1,320 ft.) NE

FACILITY INFORMATION

GEOSEARCH ID: 10117392

DEP ID: 10117392

MINE NAME: LITTLE SIX

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS

MATERIAL: PYRITE

ORE OR GANGUE: ORE

NAME DETAILS

SITE NAME: LITTLE SIX

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 153 Distance from Property: 0.24 mi. (1,267 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10214571

DEP ID: 10214571

MINE NAME: MASTEDON

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: MASTEDON

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 154 Distance from Property: 0.24 mi. (1,267 ft.) S

FACILITY INFORMATION

GEOSEARCH ID: 10142006

DEP ID: 10142006

MINE NAME: ANNAMOSA

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: LEAD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: LEAD

IMPORTANCE: TERTIARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

COMMODITY: ZINC

COMMODITY TYPE: METALLIC

COMMODITY GROUP: ZINC

IMPORTANCE: TERTIARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: ANNAMOSA

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 155 Distance from Property: 0.24 mi. (1,267 ft.) S

FACILITY INFORMATION

GEOSEARCH ID: 10166917

DEP ID: 10166917

MINE NAME: PLATTS BIG CHANCE

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

COMMODITY: COPPER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: COPPER

IMPORTANCE: TERTIARY

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: LEAD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: LEAD

IMPORTANCE: TERTIARY

COMMODITY: ZINC

COMMODITY TYPE: METALLIC

COMMODITY GROUP: ZINC

IMPORTANCE: TERTIARY

MATERIAL DETAILS

MATERIAL: SPHALERITE

ORE OR GANGUE: ORE

MATERIAL: PYRITE

ORE OR GANGUE: ORE

MATERIAL: CHALCOPYRITE

ORE OR GANGUE: ORE

Mineral Resource Data System (MRDS)

MATERIAL: **GALENA**
ORE OR GANGUE: **ORE**

MATERIAL: **TENNANTITE**
ORE OR GANGUE: **ORE**

MATERIAL: **QUARTZ**
ORE OR GANGUE: **GANGUE**

NAME DETAILS

SITE NAME: **PLATTS BIG CHANCE**
STATUS: **CURRENT**

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Mineral Resource Data System (MRDS)

MAP ID# 156 Distance from Property: 0.24 mi. (1,267 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10142408

DEP ID: 10142408

MINE NAME: SUNSHINE TUNNEL

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

MATERIAL DETAILS

MATERIAL: SPHALERITE

ORE OR GANGUE: ORE

MATERIAL: GALENA

ORE OR GANGUE: ORE

MATERIAL: CHALCOPYRITE

ORE OR GANGUE: ORE

MATERIAL: PYRITE

ORE OR GANGUE: ORE

NAME DETAILS

SITE NAME: SUNSHINE TUNNEL

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 156 Distance from Property: 0.24 mi. (1,267 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10239563

DEP ID: 10239563

MINE NAME: EQUINOX SHAFT

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: SUNSHINE SHAFT

STATUS: PREVIOUS

SITE NAME: EQUINOX SHAFT

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 157 Distance from Property: 0.24 mi. (1,267 ft.) S

FACILITY INFORMATION

GEOSEARCH ID: 10142276

DEP ID: 10142276

MINE NAME: KENT TUNNEL

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: KENT TUNNEL

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 158 Distance from Property: 0.24 mi. (1,267 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10287135

DEP ID: 10287135

MINE NAME: LITTLE ELLA

ADDRESS: CLEAR CREEK COUNTY
IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: LITTLE ELLA

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 159

Distance from Property: 0.24 mi. (1,267 ft.) SW

FACILITY INFORMATION

GEOSEARCH ID: 10214371

DEP ID: 10214371

MINE NAME: CLEAR CREEK SHAFT

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: CLEAR CREEK SHAFT

STATUS: CURRENT

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Mineral Resource Data System (MRDS)

MAP ID# 160 Distance from Property: 0.25 mi. (1,320 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: 10167040

DEP ID: 10167040

MINE NAME: UNITED GOLD

ADDRESS: CLEAR CREEK COUNTY

IDAHO SPRINGS, CO 80452

DEVELOPMENT STATUS: PAST PRODUCER

COMMODITY DETAILS

COMMODITY: SILVER

COMMODITY TYPE: METALLIC

COMMODITY GROUP: SILVER

IMPORTANCE: TERTIARY

COMMODITY: GOLD

COMMODITY TYPE: METALLIC

COMMODITY GROUP: GOLD

IMPORTANCE: PRIMARY

MATERIAL DETAILS

MATERIAL: PYRITE

ORE OR GANGUE: ORE

MATERIAL: QUARTZ

ORE OR GANGUE: ORE

NAME DETAILS

SITE NAME: UNITED GOLD

STATUS: CURRENT

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Superfund Enterprise Management System Archived Site Inventory (SEMSARCH)

[MAP ID# 161](#) Distance from Property: 0.25 mi. (1,320 ft.) N

FACILITY INFORMATION

EPA ID#: COD983793753

SITE ID#: 0801260

NAME: CSM EXPERIMENTAL MINE

ADDRESS: 365 8TH STREET

IDAHO SPRINGS, CO 80452

COUNTY: CLEAR CREEK

FEDERAL FACILITY: NOT A FEDERAL FACILITY

NPL: NOT ON THE NPL

NON NPL STATUS: NFRAP-SITE DOES NOT QUALIFY FOR THE NPL BASED ON EXISTING INFORMATION

Below information was gathered from the prior NFRAP update completed in 10/2013 update:

<u>ACTION</u>	<u>START DATE</u>	<u>COMPLETION DATE</u>	<u>RESPONSIBILITY</u>
DS - DISCOVERY	NOT REPORTED	6/15/1992	EPA FUND
PA - PRELIMINARY ASSESSMENT	NOT REPORTED	5/17/1993	EPA FUND
VS - ARCHIVE SITE	NOT REPORTED	5/17/1993	EPA IN-HOUSE

ACTION DESCRIPTIONS

DS - (DISCOVERY) - THE PROCESS BY WHICH A POTENTIAL HAZARDOUS WASTE SITE IS BROUGHT TO THE ATTENTION OF THE EPA. THE PROCESS CAN OCCUR THROUGH THE USE OF SEVERAL MECHANISMS SUCH AS A PHONE CALL OR REFERRAL BY ANOTHER GOVERNMENT AGENCY.

PA - (PRELIMINARY ASSESSMENT) - COLLECTION OF DIVERSE EXISTING INFORMATION ABOUT THE SOURCE AND NATURE OF THE SITE HAZARD. IT IS EPA POLICY TO COMPLETE THE PRELIMINARY ASSESSMENT WITHIN ONE YEAR OF SITE DISCOVERY.

VS - (ARCHIVE SITE) - THE DECISION IS MADE THAT NO FURTHER ACTIVITY IS PLANNED AT THE SITE.

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Superfund Enterprise Management System (SEMS)

MAP ID# 162

Distance from Property: 0.36 mi. (1,901 ft.) SW

FACILITY INFORMATION

EPA ID#: **CON000802484**

SITE ID#: **0802484**

NAME: **BULLION KING RAM**

ADDRESS: **BULLION KING MINE
SILVERTON, CO 80452**

COUNTY: **SAN JUAN**

FEDERAL FACILITY: **NO - NOT A FEDERAL FACILITY**

NPL: **NOT ON THE NPL**

NON NPL STATUS: **REMOVAL ONLY SITE (NO SITE ASSESSMENT WORK NEEDED)**

Below information was gathered from the prior CERCLIS update completed in 10/2013 update:

NON-NPL STATUS DATE: **NOT REPORTED**

PHYSICAL CLASSIFICATION OF SITE / INCIDENT: **NO INFORMATION AVAILABLE**

SITE DESCRIPTION - **NO SITE DESCRIPTION INFORMATION AVAILABLE -**

SITE HISTORY - **NO SITE HISTORY INFORMATION AVAILABLE -**

ACTIONS - **NO ACTION INFORMATION AVAILABLE -**

CONTAMINANTS - **NO CONTAMINATION INFORMATION AVAILABLE -**

LISTING OF PUBLISHED INSTITUTIONAL CONTROL SITE REPORT - **NOT AN INSTITUTIONAL CONTROL SITE -**

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Surface Mining Control and Reclamation Act Sites (SMCRA)

MAP ID# 163 Distance from Property: 0.41 mi. (2,165 ft.) S

FACILITY INFORMATION

GEOSEARCH ID: **CO908125**
AMLIS KEY: **CO908125**
PROBLEM AREA NUMBER: **908125**
PROBLEM AREA NAME: **MINER'S CANDLE**
ADDRESS: **CLEAR CREEK COUNTY**
IDAHO SPRINGS, CO 80452
COUNTY: **CLEAR CREEK**
PLAN UNIT NUMBER: **599**
PLAN UNIT NAME: **IDAHO SPRINGS**

FACILITY DETAIL(S)

FUNDING SOURCE/PROGRAM: **NCA**
PROBLEM TYPE: **P**
PROBLEM PRIORITY: **1**
MINING TYPE: **U**
ORE TYPES: **GICSOLR**
DATE PREPARED: **6/13/2012 0:00**
DATE REVISED: **9/18/2012 20:24**
PRIVATE OWNER %: **100**
STATE OWNER %: **0**
OTHER FEDERAL OWNER %: **0**
PARK SERVICE OWNER %: **0**
FOREST SERVICE OWNER %: **0**
INDIAN OWNER %: **0**
BLM OWNER %: **0**
UNFUNDED STANDARD UNITS: **0**
UNFUNDED COSTS: **0**
UNFUNDED GPRA ACRES: **0**
UNFUNDED METRIC UNITS: **0**
FUNDED STANDARD UNITS: **0**
FUNDED COSTS: **0**
FUNDED GPRA ACRES: **0**
FUNDED METRIC UNITS: **0**
COMPLETED STANDARD UNITS: **8**
COMPLETED COSTS: **18678.84**
COMPLETED GPRA ACRES: **0.8**
COMPLETED METRIC UNITS: **8**

FUNDING SOURCE/PROGRAM: **NCA**
PROBLEM TYPE: **VO**
PROBLEM PRIORITY: **1**

Surface Mining Control and Reclamation Act Sites (SMCRA)

MINING TYPE: **U**
ORE TYPES: **GICSOLR**
DATE PREPARED: **6/13/2012 0:00**
DATE REVISED: **9/18/2012 20:24**
PRIVATE OWNER %: **100**
STATE OWNER %: **0**
OTHER FEDERAL OWNER %: **0**
PARK SERVICE OWNER %: **0**
FOREST SERVICE OWNER %: **0**
INDIAN OWNER %: **0**
BLM OWNER %: **0**
UNFUNDED STANDARD UNITS: **0**
UNFUNDED COSTS: **0**
UNFUNDED GPRA ACRES: **0**
UNFUNDED METRIC UNITS: **0**
FUNDED STANDARD UNITS: **0**
FUNDED COSTS: **0**
FUNDED GPRA ACRES: **0**
FUNDED METRIC UNITS: **0**
COMPLETED STANDARD UNITS: **13**
COMPLETED COSTS: **41405.41**
COMPLETED GPRA ACRES: **1.3**
COMPLETED METRIC UNITS: **13**

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Superfund Enterprise Management System (SEMS)

MAP ID# 164 Distance from Property: 0.42 mi. (2,218 ft.) N

FACILITY INFORMATION

EPA ID#: **CO0009109100**

SITE ID#: **0801751**

NAME: **QUEEN ELIZABETH/TOM BOY**

ADDRESS: **VIRGINIA NEAR IDAHO SPRINGS
IDAHO SPRINGS, CO 80452**

COUNTY: **CLEAR CREEK**

FEDERAL FACILITY: **NO - NOT A FEDERAL FACILITY**

NPL: **NOT ON THE NPL**

NON NPL STATUS: **REMOVAL ONLY SITE (NO SITE ASSESSMENT WORK NEEDED)**

Below information was gathered from the prior CERCLIS update completed in 10/2013 update:

NON-NPL STATUS DATE: **09/05/01**

PHYSICAL CLASSIFICATION OF SITE / INCIDENT: **NO INFORMATION AVAILABLE**

SITE DESCRIPTION

TIME CRITICAL REMOVAL OF WASTE ROCK IN VIRGINIA CREEK.

SITE HISTORY - **NO SITE HISTORY INFORMATION AVAILABLE -**

ACTIONS

TYPE: **RN - REMOVAL NEGOTIATIONS**

START DATE: **10/13/1999**

COMPLETION DATE: **10/19/1999**

ACTION TYPE DEFINITION:

REMOVAL NEGOTIATIONS ARE DEFINED AS DISCUSSIONS BETWEEN EPA AND THE POTENTIALLY RESPONSIBLE PARTIES (PRPS) ON THE LIABILITY FOR AND CONDUCT OF A REMOVAL.

TYPE: **RV - REMOVAL - TIME CRITICAL**

START DATE: **11/21/1999**

COMPLETION DATE: **06/05/2000**

ACTION TYPE DEFINITION:

RESPONSE ACTION THAT REQUIRES EXPEDITIOUS ATTENTION TO REDUCE IMMINENT AND SUBSTANTIAL DANGERS TO HUMAN HEALTH, WELFARE, OR THE ENVIRONMENT OR AN EMERGENCY RESPONSE REQUIRED WITHIN HOURS OR DAYS TO ADDRESS ACUTE SITUATIONS INVOLVING ACTUAL OR POTENTIAL THREAT TO HUMAN HEALTH, THE ENVIRONMENT, OR REAL OR PERSONAL PROPERTY DUE TO THE RELEASE OF A HAZARDOUS SUBSTANCE. CHARACTERIZATION OF A REMOVAL ACTION AS REMOVAL, NOT IMMEDIATE REMOVAL OR PLANNED REMOVAL, STARTED AT THE BEGINNING OF FY 1987. THIS CODE NOW TAKES THE PLACE OF IMMEDIATE REMOVAL (IR) AND PLANNED REMOVAL (PR).

TYPE: **AC - ADMINISTRATIVE ORDER ON CONSENT**

START DATE: **NOT REPORTED**

COMPLETION DATE: **10/19/1999**

ACTION TYPE DEFINITION:

A VOLUNTARY AND ENFORCEABLE AGREEMENT PURSUANT TO CERCLA, SIGNED BY EPA AND POTENTIALLY RESPONSIBLE PARTIES (PRPS), WHEREBY THE PRPS AGREE TO PERFORM AND/OR PAY FOR SOME OR ALL OF THE RESPONSE COSTS INVOLVED IN SITE CLEANUP. THE ORDER DESCRIBES THE PRP RESPONSE TO BE TAKEN AT A SITE, STIPULATED PENALTIES, INDEMNIFICATION, EFFECTIVE DATE, AND MAY BE SUBJECT TO PUBLIC COMMENT. IT CAN BE

Superfund Enterprise Management System (SEMS)

FOR REMOVAL, REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS), REMEDIAL DESIGN (RD), AND REMEDIAL ACTION (RA),PRE-SARA; BUT ONLY REMOVAL AND RI/FS, POST-SARA.

CONTAMINANTS - NO CONTAMINATION INFORMATION AVAILABLE -

LISTING OF PUBLISHED INSTITUTIONAL CONTROL SITE REPORT - NOT AN INSTITUTIONAL CONTROL SITE -

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Surface Mining Control and Reclamation Act Sites (SMCRA)

MAP ID# 165 Distance from Property: 0.47 mi. (2,482 ft.) N

FACILITY INFORMATION

GEOSEARCH ID: **CO010077**
AMLIS KEY: **CO010077**
PROBLEM AREA NUMBER: **10077**
PROBLEM AREA NAME: **NOBEL PROJECT**
ADDRESS: **CLEAR CREEK COUNTY**
DUMONT, CO 80436
COUNTY: **CLEAR CREEK**
PLAN UNIT NUMBER: **542**
PLAN UNIT NAME: **CENTRAL CITY**

FACILITY DETAIL(S)

FUNDING SOURCE/PROGRAM: **NCA**
PROBLEM TYPE: **P**
PROBLEM PRIORITY: **1**
MINING TYPE: **B**
ORE TYPES: **GS**
DATE PREPARED: **5/11/2011 0:00**
DATE REVISED: **4/22/2013 11:47**
PRIVATE OWNER %: **100**
STATE OWNER %: **0**
OTHER FEDERAL OWNER %: **0**
PARK SERVICE OWNER %: **0**
FOREST SERVICE OWNER %: **0**
INDIAN OWNER %: **0**
BLM OWNER %: **0**
UNFUNDED STANDARD UNITS: **0**
UNFUNDED COSTS: **0**
UNFUNDED GPRA ACRES: **0**
UNFUNDED METRIC UNITS: **0**
FUNDED STANDARD UNITS: **0**
FUNDED COSTS: **0**
FUNDED GPRA ACRES: **0**
FUNDED METRIC UNITS: **0**
COMPLETED STANDARD UNITS: **25**
COMPLETED COSTS: **49554.53**
COMPLETED GPRA ACRES: **2.5**
COMPLETED METRIC UNITS: **25**

FUNDING SOURCE/PROGRAM: **NCA**
PROBLEM TYPE: **VO**
PROBLEM PRIORITY: **1**

Surface Mining Control and Reclamation Act Sites (SMCRA)

MINING TYPE: **B**
ORE TYPES: **GS**
DATE PREPARED: **5/11/2011 0:00**
DATE REVISED: **4/22/2013 11:47**
PRIVATE OWNER %: **100**
STATE OWNER %: **0**
OTHER FEDERAL OWNER %: **0**
PARK SERVICE OWNER %: **0**
FOREST SERVICE OWNER %: **0**
INDIAN OWNER %: **0**
BLM OWNER %: **0**
UNFUNDED STANDARD UNITS: **0**
UNFUNDED COSTS: **0**
UNFUNDED GPRA ACRES: **0**
UNFUNDED METRIC UNITS: **0**
FUNDED STANDARD UNITS: **0**
FUNDED COSTS: **0**
FUNDED GPRA ACRES: **0**
FUNDED METRIC UNITS: **0**
COMPLETED STANDARD UNITS: **37**
COMPLETED COSTS: **105254.57**
COMPLETED GPRA ACRES: **3.7**
COMPLETED METRIC UNITS: **37**

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Unlocated Sites Summary

This list contains sites that could not be mapped due to limited or incomplete address information.

No Records Found

Environmental Records Definitions - FEDERAL

AIRSAFS Aerometric Information Retrieval System / Air Facility Subsystem

VERSION DATE: 10/20/14

The United States Environmental Protection Agency (EPA) modified the Aerometric Information Retrieval System (AIRS) to a database that exclusively tracks the compliance of stationary sources of air pollution with EPA regulations: the Air Facility Subsystem (AFS). Since this change in 2001, the management of the AIRS/AFS database was assigned to EPA's Office of Enforcement and Compliance Assurance.

BRS Biennial Reporting System

VERSION DATE: 12/31/11

The United States Environmental Protection Agency (EPA), in cooperation with the States, biennially collects information regarding the generation, management, and final disposition of hazardous wastes regulated under the Resource Conservation and Recovery Act of 1976 (RCRA), as amended. The Biennial Report captures detailed data on the generation of hazardous waste from large quantity generators and data on waste management practices from treatment, storage and disposal facilities. Currently, the EPA states that data collected between 1991 and 1997 was originally a part of the defunct Biennial Reporting System and is now incorporated into the RCRAInfo data system.

DOCKETS EPA Docket Data

VERSION DATE: 12/22/05

The United States Environmental Protection Agency Docket data lists Civil Case Defendants, filing dates as far back as 1971, laws broken including section, violations that occurred, pollutants involved, penalties assessed and superfund awards by facility and location. Please refer to ICIS database as source of current data.

ECHOR08 Enforcement and Compliance History Information

VERSION DATE: 02/08/17

The EPA's Enforcement and Compliance History Online (ECHO) database, provides compliance and enforcement information for facilities nationwide. This database includes facilities regulated as Clean Air Act stationary sources, Clean Water Act direct dischargers, Resource Conservation and Recovery Act hazardous waste handlers, Safe Drinking Water Act public water systems along with other data, such as Toxics Release Inventory releases.

FRSCO Facility Registry System

VERSION DATE: 04/04/17

The United States Environmental Protection Agency's Office of Environmental Information (OEI) developed the Facility Registry System (FRS) as the centrally managed database that identifies facilities, sites or places subject to environmental regulations or of environmental interest. The Facility Registry System replaced the Facility Index System or FINDS database.

Environmental Records Definitions - FEDERAL

ICIS Integrated Compliance Information System (formerly DOCKETS)

VERSION DATE: 03/25/17

ICIS is a case activity tracking and management system for civil, judicial, and administrative federal Environmental Protection Agency enforcement cases. ICIS contains information on federal administrative and federal judicial cases under the following environmental statutes: the Clean Air Act, the Clean Water Act, the Resource Conservation and Recovery Act, the Emergency Planning and Community Right-to-Know Act - Section 313, the Toxic Substances Control Act, the Federal Insecticide, Fungicide, and Rodenticide Act, the Comprehensive Environmental Response, Compensation, and Liability Act, the Safe Drinking Water Act, and the Marine Protection, Research, and Sanctuaries Act.

ICISNPDES Integrated Compliance Information System National Pollutant Discharge Elimination System

VERSION DATE: 01/21/17

Authorized by the Clean Water Act, the National Pollutant Discharge Elimination System (NPDES) permit program controls water pollution by regulating point sources that discharge pollutants into waters of the United States.

MLTS Material Licensing Tracking System

VERSION DATE: 02/12/16

MLTS is a list of approximately 8,100 sites which have or use radioactive materials subject to the United States Nuclear Regulatory Commission (NRC) licensing requirements.

NPDES08 National Pollutant Discharge Elimination System

VERSION DATE: 04/01/07

Authorized by the Clean Water Act, the National Pollutant Discharge Elimination System (NPDES) permit program controls water pollution by regulating point sources that discharge pollutants into waters of the United States. The NPDES database was collected from December 2002 until April 2007. Refer to the PCS and/or ICIS-NPDES database as source of current data. This database includes permitted facilities located in EPA Region 8. This region includes the following states: Colorado, Montana, North Dakota, South Dakota, Utah, and Wyoming.

PADS PCB Activity Database System

VERSION DATE: 07/01/14

The PCB Activity Database System (PADS) is used by the United States Environmental Protection Agency to monitor the activities of polychlorinated biphenyls (PCB) handlers.

PCSR08 Permit Compliance System

VERSION DATE: 08/01/12

Environmental Records Definitions - FEDERAL

The Permit Compliance System is used in tracking enforcement status and permit compliance of facilities controlled by the National Pollutant Discharge Elimination System (NPDES) under the Clean Water Act and is maintained by the United States Environmental Protection Agency's Office of Compliance. PCS is designed to support the NPDES program at the state, regional, and national levels. This database includes permitted facilities located in EPA Region 8. This region includes the following states: Colorado, Montana, North Dakota, South Dakota, Utah, and Wyoming. PCS has been modernized, and no longer exists. National Pollutant Discharge Elimination System (ICIS-NPDES) data can now be found in Integrated Compliance Information System (ICIS).

RCRANGR08

Resource Conservation & Recovery Act - Non-Generator

VERSION DATE: 06/12/17

The Resource Conservation and Recovery Act (RCRA) gives EPA the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities classified as non-generators. Non-Generators do not presently generate hazardous waste. EPA Region 8 includes the following states: Colorado, Montana, North Dakota, South Dakota, Utah, and Wyoming.

SEMSLIENS

SEMS Lien on Property

VERSION DATE: 07/11/17

The U.S. Environmental Protection Agency's (EPA) Office of Solid Waste and Emergency Response, Office of Superfund Remediation and Technology Innovation (OSRTI), has implemented The Superfund Enterprise Management System (SEMS), formerly known as CERCLIS (Comprehensive Environmental Response, Compensation and Liability Information System) to track and report on clean-up and enforcement activities taking place at Superfund sites. SEMS represents a joint development and ongoing collaboration between Superfund's Remedial, Removal, Federal Facilities, Enforcement and Emergency Response programs. This is a listing of SEMS sites with a lien on the property.

SFLIENS

CERCLIS Liens

VERSION DATE: 06/08/12

A Federal CERCLA ("Superfund") lien can exist by operation of law at any site or property at which United States Environmental Protection Agency 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. This database contains those CERCLIS sites where the Lien on Property action is complete.

Environmental Records Definitions - FEDERAL

SSTS Section Seven Tracking System

VERSION DATE: 12/08/14

The United States Environmental Protection Agency tracks information on pesticide establishments through the Section Seven Tracking System (SSTS). SSTS records the registration of new establishments and records pesticide production at each establishment. The Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) requires that production of pesticides or devices be conducted in a registered pesticide-producing or device-producing establishment. ("Production" includes formulation, packaging, repackaging, and relabeling.)

TSCA Toxic Substance Control Act Inventory

VERSION DATE: 12/31/06

The Toxic Substances Control Act (TSCA) was enacted in 1976 to ensure that chemicals manufactured, imported, processed, or distributed in commerce, or used or disposed of in the United States do not pose any unreasonable risks to human health or the environment. TSCA section 8(b) provides the United States Environmental Protection Agency authority to "compile, keep current, and publish a list of each chemical substance that is manufactured or processed in the United States." This TSCA Chemical Substance Inventory contains non-confidential information on the production amount of toxic chemicals from each manufacturer and importer site.

ERNSCO Emergency Response Notification System

VERSION DATE: 04/17/17

This National Response Center database contains data on reported releases of oil, chemical, radiological, biological, and/or etiological discharges into the environment anywhere in the United States and its territories. The data comes from spill reports made to the U.S. Environmental Protection Agency, U.S. Coast Guard, the National Response Center and/or the U.S. Department of Transportation.

HMIRSR08 Hazardous Materials Incident Reporting System

VERSION DATE: 11/29/16

The HMIRS database contains unintentional hazardous materials release information reported to the U.S. Department of Transportation located in EPA Region 8. This region includes the following states: Colorado, Montana, North Dakota, South Dakota, Utah, and Wyoming.

RCRAGR08 Resource Conservation & Recovery Act - Generator

VERSION DATE: 06/12/17

The Resource Conservation and Recovery Act (RCRA) gives EPA the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground

Environmental Records Definitions - FEDERAL

tanks storing petroleum and other hazardous substances. This listing refers to facilities currently generating hazardous waste. EPA Region 8 includes the following states: Colorado, Montana, North Dakota, South Dakota, Utah, and Wyoming.

TRI Toxics Release Inventory

VERSION DATE: 12/31/15

The Toxics Release Inventory, provided by the United States Environmental Protection Agency, includes data on toxic chemical releases and waste management activities from certain industries as well as federal and tribal facilities. This inventory contains information about the types and amounts of toxic chemicals that are released each year to the air, water, and land as well as information on the quantities of toxic chemicals sent to other facilities for further waste management.

ALTFUELS Alternative Fueling Stations

VERSION DATE: 05/16/17

Nationwide list of alternative fueling stations made available by the US Department of Energy's Office of Energy Efficiency & Renewable Energy. Includes Biodiesel stations, Ethanol (E85) stations, Liquefied Petroleum Gas (Propane) stations, Ethanol (E85) stations, Natural Gas stations, Hydrogen stations, and Electric Vehicle Supply Equipment (EVSE).

CDL Clandestine Drug Laboratory Locations

VERSION DATE: 07/01/16

The U.S. Department of Justice ("the Department") provides this information 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. The Department does not establish, implement, enforce, or certify compliance with clean-up or remediation standards for contaminated sites; the public should contact a state or local health department or environmental protection agency for that information.

EC Federal Engineering Institutional Control Sites

VERSION DATE: 08/03/15

This database includes site locations where Engineering and/or Institutional Controls have been identified as part of a selected remedy for the site as defined by United States Environmental Protection Agency official remedy decision documents. A site listing does not indicate that the institutional and engineering controls are currently in place nor will be in place once the remedy is complete; it only indicates that the decision to include either of them in the remedy is documented as of the completed date of the document. Institutional controls are actions, such as legal controls, that help minimize the potential for human exposure to contamination by ensuring appropriate land or resource use. Engineering controls include caps, barriers, or other device engineering to prevent access,

Environmental Records Definitions - FEDERAL

exposure, or continued migration of contamination.

FEMAUST FEMA Owned Storage Tanks

VERSION DATE: 12/01/16

This is a listing of FEMA owned underground and aboveground storage tank sites. For security reasons, address information is not released to the public according to the U.S. Department of Homeland Security.

HISTPST Historical Gas Stations

VERSION DATE: NR

This historic directory of service stations is provided by the Cities Service Company. The directory includes Cities Service filling stations that were located throughout the United States in 1930.

ICISCLEANERS Integrated Compliance Information System Drycleaners

VERSION DATE: 03/25/17

This is a listing of drycleaner facilities from the Integrated Compliance Information System (ICIS). The Environmental Protection Agency (EPA) tracks facilities that possess NAIC and SIC codes that classify businesses as drycleaner establishments.

LUCIS Land Use Control Information System

VERSION DATE: 09/01/06

The LUCIS database is maintained by the U.S. Navy and contains information for former Base Realignment and Closure (BRAC) properties across the United States.

MRDS Mineral Resource Data System

VERSION DATE: 03/15/16

MRDS (Mineral Resource Data System) is a collection of reports describing metallic and nonmetallic mineral resources throughout the world. Included are deposit name, location, commodity, deposit description, geologic characteristics, production, reserves, resources, and references. This database contains the records previously provided in the Mineral Resource Data System (MRDS) of USGS and the Mineral Availability System/Mineral Industry Locator System (MAS/MILS) originated in the U.S. Bureau of Mines, which is now part of USGS.

MSHA Mine Safety and Health Administration Master Index File

VERSION DATE: 02/03/17

The Mine dataset lists all Coal and Metal/Non-Metal mines under MSHA's jurisdiction since 1/1/1970. It includes such information as the current status of each mine (Active, Abandoned, NonProducing, etc.), the current owner

Environmental Records Definitions - FEDERAL

and operating company, commodity codes and physical attributes of the mine. Mine ID is the unique key for this data. This information is provided by the United States Department of Labor - Mine Safety and Health Administration (MSHA).

RCRASC RCRA Sites with Controls

VERSION DATE: 02/23/16

The Resource Conservation and Recovery Act (RCRA) gives EPA the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities with institutional controls in place.

BF Brownfields Management System

VERSION DATE: 05/10/17

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. The United States Environmental Protection Agency maintains this database to track activities in the various brown field grant programs including grantee assessment, site cleanup and site redevelopment. This database included tribal brownfield sites.

NLRRCRAT No Longer Regulated RCRA Non-CORRACTS TSD Facilities

VERSION DATE: 06/12/17

This database includes RCRA Non-Corrective Action TSD facilities that are no longer regulated by the United States Environmental Protection Agency or do not meet other RCRA reporting requirements. This listing includes facilities that formerly treated, stored or disposed of hazardous waste.

ODI Open Dump Inventory

VERSION DATE: 06/01/85

The open dump inventory was published by the United States Environmental Protection Agency. An "open dump" is defined as a facility or site where solid waste is disposed of which is not a sanitary landfill which meets the criteria promulgated under section 4004 of the Solid Waste Disposal Act (42 U.S.C. 6944) and which is not a facility for disposal of hazardous waste. This inventory has not been updated since June 1985.

RCRAT Resource Conservation & Recovery Act - Non-CORRACTS Treatment, Storage & Disposal Facilities

VERSION DATE: 06/12/17

Environmental Records Definitions - FEDERAL

The Resource Conservation and Recovery Act (RCRA) gives EPA the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities recognized as hazardous waste treatment, storage, and disposal sites (TSD).

SEMS Superfund Enterprise Management System

VERSION DATE: 05/30/17

The U.S. Environmental Protection Agency's (EPA) Office of Solid Waste and Emergency Response, Office of Superfund Remediation and Technology Innovation (OSRTI), has implemented The Superfund Enterprise Management System (SEMS), formerly known as CERCLIS (Comprehensive Environmental Response, Compensation and Liability Information System) to track and report on clean-up and enforcement activities taking place at Superfund sites. SEMS represents a joint development and ongoing collaboration between Superfund's Remedial, Removal, Federal Facilities, Enforcement and Emergency Response programs.

SEMSARCH Superfund Enterprise Management System Archived Site Inventory

VERSION DATE: 05/30/17

The Superfund Enterprise Management System Archive listing (SEMS-ARCHIVE) has replaced the CERCLIS NFRAP reporting system in 2015. This listing reflect sites that have been assessed and no further remediation is planned and is of no further interest under the Superfund program.

SMCRA Surface Mining Control and Reclamation Act Sites

VERSION DATE: 02/22/17

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

USUMTRCA Uranium Mill Tailings Radiation Control Act Sites

VERSION DATE: 03/04/17

The Legacy Management Office of the Department of Energy (DOE) manages radioactive and chemical waste, environmental contamination, and hazardous material at over 100 sites across the U.S. The L.M. Office manages this database of sites registered under the Uranium Mill Tailings Control Act (UMTRCA).

Environmental Records Definitions - FEDERAL

DNPL Delisted National Priorities List

VERSION DATE: 05/30/17

This database includes sites from the United States Environmental Protection Agency's Final National Priorities List (NPL) where remedies have proven to be satisfactory or sites where the original analyses were inaccurate, and the site is no longer appropriate for inclusion on the NPL, and final publication in the Federal Register has occurred.

DOD Department of Defense Sites

VERSION DATE: 06/21/10

This information originates from the National Atlas of the United States Federal Lands data, which includes lands owned or administered by the Federal government. Army DOD, Army Corps of Engineers DOD, Air Force DOD, Navy DOD and Marine DOD areas of 640 acres or more are included.

FUDS Formerly Used Defense Sites

VERSION DATE: 06/01/15

The Formerly Used Defense Sites (FUDS) inventory includes properties previously owned by or leased to the United States and under Secretary of Defense Jurisdiction, as well as Munitions Response Areas (MRAs). The remediation of these properties is the responsibility of the Department of Defense. This data is provided by the U.S. Army Corps of Engineers (USACE), the boundaries/polygon data are based on preliminary findings and not all properties currently have polygon data available. **DISCLAIMER:** This data represents the results of data collection/processing for a specific USACE activity and is in no way to be considered comprehensive or to be used in any legal or official capacity as presented on this site. While the USACE has made a reasonable effort to insure the accuracy of the maps and associated data, it should be explicitly noted that USACE makes no warranty, representation or guaranty, either expressed or implied, as to the content, sequence, accuracy, timeliness or completeness of any of the data provided herein. For additional information on Formerly Used Defense Sites please contact the USACE Public Affairs Office at (202) 528-4285.

FUSRAP Formerly Utilized Sites Remedial Action Program

VERSION DATE: 03/04/17

The U.S. DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from the Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations. The DOE Office of Legacy Management (LM) established long-term surveillance and maintenance (LTS&M) requirements for remediated FUSRAP sites. DOE evaluates the final site conditions of a remediated site on the basis of risk for different future uses. DOE then confirms that LTS&M requirements will maintain protectiveness.

Environmental Records Definitions - FEDERAL

NLRRCRAC No Longer Regulated RCRA Corrective Action Facilities

VERSION DATE: 06/12/17

This database includes RCRA Corrective Action facilities that are no longer regulated by the United States Environmental Protection Agency or do not meet other RCRA reporting requirements.

NMS Former Military Nike Missile Sites

VERSION DATE: 12/01/84

This information was taken from report DRXTH-AS-IA-83A016 (Historical Overview of the Nike Missile System, 12/1984) which was performed by Environmental Science and Engineering, Inc. for the U.S. Army Toxic and Hazardous Materials Agency Assessment Division. The Nike system was deployed between 1954 and the mid-1970's. Among the substances used or stored on Nike sites were liquid missile fuel (JP-4); starter fluids (UDKH, aniline, and furfuryl alcohol); oxidizer (IRFNA); hydrocarbons (motor oil, hydraulic fluid, diesel fuel, gasoline, heating oil); solvents (carbon tetrachloride, trichloroethylene, trichloroethane, stoddard solvent); and battery electrolyte. The quantities of material a disposed of and procedures for disposal are not documented in published reports. Virtually all information concerning the potential for contamination at Nike sites is confined to personnel who were assigned to Nike sites.

During deactivation most hardware was shipped to depot-level supply points. There were reportedly instances where excess materials were disposed of on or near the site itself at closure. There was reportedly no routine site decontamination.

NPL National Priorities List

VERSION DATE: 05/30/17

This database includes United States Environmental Protection Agency (EPA) National Priorities List sites that fall under the EPA's Superfund program, established to fund the cleanup of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action.

PNPL Proposed National Priorities List

VERSION DATE: 05/30/17

This database contains sites proposed to be included on the National Priorities List (NPL) in the Federal Register. The United States Environmental Protection Agency investigates these sites to determine if they may present long-term threats to public health or the environment.

RCRAC Resource Conservation & Recovery Act - Corrective Action Facilities

VERSION DATE: 06/12/17

The Resource Conservation and Recovery Act (RCRA) gives EPA the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986

Environmental Records Definitions - FEDERAL

amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities with corrective action activity.

RCRASUBC

Resource Conservation & Recovery Act - Subject to Corrective Action Facilities

VERSION DATE: 06/12/17

The Resource Conservation and Recovery Act (RCRA) gives EPA the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities subject to corrective actions.

RODS

Record of Decision System

VERSION DATE: 01/23/12

These decision documents maintained by the United States Environmental Protection Agency describe the chosen remedy for NPL (Superfund) site remediation. They also include site history, site description, site characteristics, community participation, enforcement activities, past and present activities, contaminated media, the contaminants present, and scope and role of response action.

Environmental Records Definitions - STATE (CO)

APCDP Air Pollution Control Division Permitted Facilities

VERSION DATE: 05/05/17

The Stationary Sources Program, located within the Air Pollution Control Division of the Colorado Department of Public Health and Environment, evaluates and develops air permits for stationary sources in Colorado. The program inspects sources to determine compliance with air regulations and permit conditions, and maintains a computerized inventory of air pollution emissions throughout the state.

ASBESTOS Asbestos Abatement and Demolition Projects

VERSION DATE: 04/05/17

The Colorado Department of Public Health and Environment's Air Pollution Control Division assists schools and businesses to comply with air pollution laws regulating asbestos and asbestos containing materials. The regulation that governs asbestos in Colorado is the Colorado Air Quality Control Commission's Regulation No. 8, Part B, "Emission Standards for Asbestos." Notification is required for all demolitions of all facilities and all asbestos abatement projects that exceed the trigger levels, whatever is the lesser quantity. The notification requirements apply to both friable and non-friable asbestos materials. This database contains those related projects since January 2008.

CDPS Colorado Discharge Permit System Facilities

VERSION DATE: 01/07/16

The Colorado Department of Public Health & Environment's Water Quality Control Division regulates the Colorado Discharge Permit System. This system controls stormwater discharges from construction activities by requiring a Stormwater Construction Permit to reduce pollutants from entering streams, river, lakes and wetlands as a result of runoff from residential, commercial and industrial areas. This database also includes facilities with Industrial Stormwater Permits.

HWSG Hazardous Waste Sites- Generator

VERSION DATE: 06/30/03

The Resource Conservation and Recovery Act (RCRA) was enacted by congress in 1976, followed by the promulgation of implementing regulations in 1980. In 1984, the State was authorized by EPA to implement the RCRA program in Colorado on their behalf. This facility listing includes RCRA sites listed as generators of hazardous waste (Small Quantity Generators and Large Quantity Generators) and was provided by the Colorado Department of Public Health and Environment.

Small Quantity Generators (SQG) generate, in any calendar month, more than 100 kg (220 lbs.) but less than 1,000 kg (2,200 lbs.) of RCRA hazardous waste; and generate, in any calendar month, or accumulate at any time, no more than 1 kg (2.2 lbs.) of acute hazardous waste and no more than 100 kg (220 lbs.) of material from the cleanup of a spill of acute hazardous waste; and accumulate on-site no more than 6000 kg (13,200 lbs) of hazardous waste at any one time; or, the site is a Small Quantity Generator if the site met all other criteria for a Conditionally Exempt Small Quantity Generator, but accumulated, at any time, more than 1,000 kg (2,200 lbs.) of RCRA hazardous waste.

Environmental Records Definitions - STATE (CO)

Large Quantity Generators (LQG) generate, in any calendar month, 1,000 kg (2,200 lbs.) or more of RCRA hazardous waste; or generate, in any calendar month, or accumulated at any time, more than 1 kg (2.2 lbs.) of RCRA acute hazardous waste; or generate, in any calendar month, or accumulated at any time, more than 100 kg (220 lbs.) of spill cleanup material contaminated with RCRA acute hazardous waste.

SPILLS Spills Listing

VERSION DATE: 05/15/17

The Colorado Department of Public Health and Environment's Division of Emergency Preparedness and Response maintains this listing of chemical spills and/or releases.

AST Aboveground Storage Tank Facilities

VERSION DATE: 07/17/17

The Oil and Public Safety Division of the Colorado Department of Labor and Employment maintains this list of aboveground storage tank (AST) facilities. This AST database also includes other types of storage tank facilities such as liquefied petroleum gas (LPG), vehicle tank meters (VTM), and compressed natural gas facilities.

CDL Clandestine Drug Laboratory Locations

VERSION DATE: 05/22/17

This list of Methamphetamine lab seizures is provided by multiple sources: the North Metro Task Force, FACTS (Forensic Applications Consulting Technologies, Inc) and the Colorado Springs Police Department. The North Metro Task Force list of Methamphetamine labs were seized between 2001 and 2010. The North Metro area includes the following Cities and Counties of Colorado: Adams County, Broomfield, Brighton, Commerce City, Federal Heights, Northglenn, Thornton, and Westminster. According to Section 2 of Colorado Revised Statutes: "25-18.5-103. Discovery of an illegal drug laboratory - property owner - clean-up - liability. (1) (a) Upon notification from a peace officer that chemicals, equipment, or supplies indicative of an illegal drug laboratory are located on a property, or when an illegal drug laboratory used to manufacture methamphetamine is otherwise discovered and the property owner has received notice, the owner of any contaminated property shall meet the cleanup standards for property established by the board in section 25-18.5-102". The FACTS and Colorado Springs Police Department Methamphetamine labs were seized between 2001 and 2014.

COVENANTS Environmental Real Covenants List

VERSION DATE: 12/19/16

Senate Bill 01-145 gave authority to the Colorado Department of Public Health and Environment to approve requests to restrict the future use of a property using an enforceable agreement called an environmental covenant. These covenants, which are recorded with the deed and run with the land, provide a mechanism to ensure that institutional controls that are part of environmental remediation projects are properly implemented and that engineered structures are protected and maintained, so that implemented remedies continue to be protective of human health and the environment for as long as any residual contamination remains a risk.

Environmental Records Definitions - STATE (CO)

UST Underground Storage Tank Facilities

VERSION DATE: 07/17/17

The Oil and Public Safety Division of the Colorado Department of Labor and Employment maintains this list of underground storage tank facilities.

CLEANERS Dry Cleaning Facilities

VERSION DATE: 05/05/17

This database contains dry cleaners which have obtained an air permit through the Air Pollution Control Division at the Colorado Department of Public Health and Environment.

HISTSWLF Historical Solid Waste Landfills

VERSION DATE: NR

This historical solid waste landfills database contains data from the Hazardous Materials Waste Management Division (HMWMD) of the Colorado Department of Public Health and other various state and local agencies. In the early 1980s, the HMWMD conducted a survey of staff members and local agencies to compile this listing of sites that were known or thought to have waste issues. This Solid Waste Historical Data is not considered complete or verifiable and has not been maintained since the late 1980s. The HMWMD is not responsible and shall not be liable to the used for damages of any kind arising out of the use of this data or information.

HWSTSD Hazardous Waste Sites- Treatment, Storage & Disposal

VERSION DATE: 06/30/03

The Resource Conservation and Recovery Act (RCRA) was enacted by congress in 1976, followed by the promulgation of implementing regulations in 1980. In 1984, the State was authorized by EPA to implement the RCRA program in Colorado on their behalf. TSD facilities treat, store, dispose, or recycle hazardous waste on site in units and therefore are subject to RCRA permitting requirements. Historic TSDs are facilities that have completed closure and/or post-closure of the RCRA Subtitle C Regulated Unit(s) or the Treatment/Storage/Disposal Unit is no longer regulated. This database was provided by the Colorado Department of Public Health and Environment.

LST Leaking Storage Tank Facilities

VERSION DATE: 07/17/17

The Oil and Public Safety Division of the Colorado Department of Labor and Employment maintains this list of leaking aboveground and underground storage tank facilities.

LUSTTRUST Leaking Underground Storage Tanks Trust Fund Sites

VERSION DATE: 01/01/00

Environmental Records Definitions - STATE (CO)

Suspected tank leaks have been discovered at the sites included in this database, but the facility responsible for the leak has not been identified. The state's investigation and search for responsible parties is paid for out of the state's Leaking Underground Storage Tank (LUST) Trust Fund. This database was provided by the Colorado Department of Labor & Employment, Division of Oil and Public Safety, State Fund Section and is no longer updated.

METHANESITES Methane Gas Study Sites

VERSION DATE: 01/01/81

This Investigation of Methane Gas Hazards report was prepared by the Denver Office of Emergency Preparedness in 1981. The purpose of this study was to assess the actual and potential generation, migration, explosive and related problems associated with specified landfills, and to identify existing and potential problems, suggested strategies to prevent, abate, and control such problems and recommend investigative and monitoring functions as may be deemed necessary. The Colorado Department of Health selected eight landfills as priorities due to population density and potential hazards to population and property.

SWF Solid Waste Facilities

VERSION DATE: 05/24/17

The Colorado Department of Public Health and Environment maintains this database of solid waste disposal facilities, transfer stations, recyclers, waste tire registrants, and waste grease registrants.

UMTS Uranium Mill Tailings Sites

VERSION DATE: 08/09/02

There were nine uranium mill tailings sites in Colorado designated for cleanup under the federal Uranium Mill Tailings Radiation Control Act. These nine sites, know commonly as UMTRA sites, were remediated jointly by the State of Colorado and the U.S. Department of Energy during the late 1980's and early 1990's. Mill tailings were removed from 8 of the mill sites and relocated in engineered disposal cells. A disposal cell is designed to encapsulate the material, reduce radon emanation, and prevent the movement of water through the material. At one site, Maybell, CO, the tailings were stabilized in-place at the mill site. After remediation of the tailings was completed, the State and DOE began to investigate the residual impacts to groundwater at the mill sites. The groundwater phase of the UMTRA program is on-going. This database was provided by the Colorado Department of Public Health and Environment.

VCRA Voluntary Cleanup and Redevelopment Program Sites

VERSION DATE: 08/10/17

This site listing is provided by the Colorado Department of Public Health and Environment (CDPHE) and includes both voluntary cleanup and brownfield properties. The Voluntary Cleanup and Redevelopment program was created in 1994. The objective of the program is to facilitate the redevelopment and transfer of contaminated properties. Properties that sit untouched because of their real or perceived contamination can be rehabilitated

Environmental Records Definitions - STATE (CO)

using the CDPHE's Brownfields Program in conjunction with the Voluntary Cleanup Program. Cleanup decisions are based on existing standards and the proposed use of the property. The actual cleanup and verification is the owner's responsibility.

HWSCA Hazardous Waste Sites- Corrective Action

VERSION DATE: 06/30/03

The Resource Conservation and Recovery Act (RCRA) was enacted by congress in 1976, followed by the promulgation of implementing regulations in 1980. In 1984, the Hazardous and Solid Waste Amendments (HSWA) were added to RCRA providing for corrective action at facilities subject to RCRA. That same year, the State was authorized by EPA to implement the RCRA program in Colorado on their behalf. Corrective action may be implemented as part of a RCRA Hazardous Waste Permit, an Order, or a Corrective Action Plan pursuant to the Colorado Hazardous Waste Regulations. Corrective action is the process by which regulated facilities investigate and remediate, as necessary, all contamination (soil, ground water, surface water, air) associated with their releases into the environment. Historic Corrective Action Sites are facilities that have completed the RCRA Subtitle C corrective Action process. This database was provided by the Colorado Department of Public Health and Environment.

SF Superfund Sites

VERSION DATE: 06/01/03

This listing contains active, deleted and proposed "Superfund" hazardous waste sites, as well as those sites identified through the Natural Resource Damages section of Superfund legislation and one Private Non-Superfund Cleanup site. A site qualifies for the National Priorities List (NPL or Superfund list) when the U.S. Environmental Protection Agency (EPA) determines there is a release or threatened release of hazardous substances that may endanger public health, welfare or the environment. In Colorado, the lead agency for Superfund remediation may be either the EPA or the Colorado Department of Public Health and Environment.

Environmental Records Definitions - TRIBAL

USTR08 Underground Storage Tanks On Tribal Lands

VERSION DATE: 05/01/17

This database, provided by the United States Environmental Protection Agency (EPA), contains underground storage tanks on Tribal lands located in EPA Region 8. This region includes the following states: Colorado, Montana, North Dakota, South Dakota, Utah, and Wyoming.

LUSTR08 Leaking Underground Storage Tanks On Tribal Lands

VERSION DATE: 05/01/17

This database, provided by the United States Environmental Protection Agency (EPA), contains leaking underground storage tanks on Tribal lands located in EPA Region 8. This region includes the following states: Colorado, Montana, North Dakota, South Dakota, Utah, and Wyoming.

ODINDIAN Open Dump Inventory on Tribal Lands

VERSION DATE: 11/08/06

This Indian Health Service database contains information about facilities and sites on tribal lands where solid waste is disposed of, which are not sanitary landfills or hazardous waste disposal facilities, and which meet the criteria promulgated under section 4004 of the Solid Waste Disposal Act (42 U.S.C. 6944).

INDIANRES Indian Reservations

VERSION DATE: 01/01/00

The Department of Interior and Bureau of Indian Affairs maintains this database that includes American Indian Reservations, off-reservation trust lands, public domain allotments, Alaska Native Regional Corporations and Recognized State Reservations.

Agency Database Number	Facility Name	Facility Address	Distance (feet)/ Direction	Type ¹	Potential to Impact Project Area/Rationale
1	Central City, Clear Creek	Near Town	~0' NE	USICIS, USFRSCO, USECHOR08, USRODS, USEC, COSF, USNPL, USSEMS	High. The Central City/Clear Creek Superfund site includes multiple waste piles, tailing impoundments, milling sites and draining mine adits within a 400-square mile area in the Clear Creek watershed.
2	Downieville	I-70 In Downieville	~100' SW	COLST	High. Operations at the former and current gas stations may have impacted the project area.
3	Idaho Springs Road Project/Clear Creek Distributing/Hidden Valley Texaco/I-70 at Milepost 243	Central City Pkwy & I-70	~100' SW	COUST, COLST, USFRSCO, COAST, COLST, USERNSCO, USERNSCO, USICISNPDES	High. Elevated levels of benzene and petroleum hydrocarbons remain in groundwater as a result of two LST facilities. Groundwater in the project area may have been impacted.
4	Exit 240 Westbound On I-70	Exit 240 Westbound On I-70	~100' W	USERNSCO, COSPILLS, COSPILLS, COSPILLS, COSPILLS, USERNSCO	Low. Several diesel spills caused by traffic accidents were reported in the vicinity of exit 240. The diesel was cleaned up with absorbents. A sewer line backup occurred during drilling for a new line.
5		Pedestrian Path Under I-70 At 17Th And Miner St., Behind The Building.	~100' SW	COSPILLS	Low. Sewage spill into Clear Creek
6		Dumont Truck Stop (I-70 & Dumont)	~200' SW	USMRDS, COUST, COAST, COSPILLS	Low. Three USTs and eight ASTs were reported in operation at this location. One 40-gallon diesel spill was treated with absorbents.
7		Interstate 70, Mm 233	~100' SW	USERNSCO, COSPILLS, COSPILLS	Low. Release of 300-gallons of diesel into Clear Creek as a result of a traffic accident.
8	Clear Creek County 2014 Pavement Replacement Program	Fall River Rd At I 70 And Meadow View Dr	~100' N	COCDPS	Low. Listing does not indicate a release.

Agency Database Number	Facility Name	Facility Address	Distance (feet)/ Direction	Type ¹	Potential to Impact Project Area/Rationale
9	Interstate 70	Mile Marker 242	~100' W	USERNSCO, USERNSCO, USERNSCO	Low. Release of diesel from accidents in 2005 and 2009.
10	I-70 / Mile Post 234		~100' SW	USERNSCO	Low. Release of 15-gallons of hydrochloric acid to pavement.
11	Interstate 70 Mile Marker 239		~100' N	USMRDS, USERNSCO	High. Eighty gallons of diesel were released as a result of a traffic accident.
12		I-70 Wb Mm 235	~100' SW	USHMIRSR08	Low, A release of gasoline was reported as a result of a roll-over accident.
13	Mine Dumps	Clear Creek County	~100' W	USMRDS	Low, listing does not indicate a release.
14	Eulalie Tun	Clear Creek County	~100' N	USMRDS	Low, listing does not indicate a release.
15	Salisbury	Clear Creek County	~100' NW	USMRDS	Low, listing does not indicate a release.
16	Monte Cristo	Clear Creek County	~100' N	USMRDS	Low, listing does not indicate a release.
17	Crescent City	Clear Creek County	~100' NW	USMRDS	Low, listing does not indicate a release.
18	Big Five Tunnel	Clear Creek County	~100' N	USMRDS, USMRDS	Low, listing does not indicate a release.
19	Hoosac	Clear Creek County	~100' N	USMRDS	Low, listing does not indicate a release.
20	New Bedford	Clear Creek County	~100' N	USMRDS	Low, listing does not indicate a release.
21	Maude Monroe	Clear Creek County	~100' N	USMRDS	Low, listing does not indicate a release.
22	Columbia	Clear Creek County	~100' N	USMRDS	Low, listing does not indicate a release.
23	Pennsylvania	Clear Creek County	~100' N	USMRDS	Low, listing does not indicate a release.
24	Essex	Clear Creek County	~100' N	USMRDS, USMRDS	Low, listing does not indicate a release.
25	Tom Moore	Clear Creek County	~100' NW	USMRDS	Low, listing does not indicate a release.
26	Hiawatha Tunnel	Clear Creek County	~100' SW	USMRDS	Low, listing does not indicate a release.
27	Mab	Clear Creek County	~100' NW	USMRDS	Low, listing does not indicate a release.
28		15 Idaho St.	~200' NW	COSPILLS	Low, release of untreated mine drainage water from the Argo Tunnel to Clear Creek.

Agency Database Number	Facility Name	Facility Address	Distance (feet)/ Direction	Type ¹	Potential to Impact Project Area/Rationale
29		Idaho Springs Waste Water Treatment Plant	~300' S	COSPILLS, COSPILLS, COSPILLS, COSPILLS, COSPILLS	Low , releases of untreated sewage from the Idaho Springs wastewater treatment plant to Clear Creek.
30		15 Idaho Street	~200' N	USERNSCO	Low , release of untreated mine drainage water to Clear Creek.
31	Safeway Store #390	2425 Miner St	~200' N	USRCRAGR08	Low , listing does not indicate a release.
32	Clear Creek School Transportation Division	1125 Idaho St	~200' N	COUST	Low , listing does not indicate a release.
33	Idaho Springs Lumber Co	1965 Miner St	~200' NW	COUST	Low , listing does not indicate a release.
34	Orphan Tank At 291 Cr 308	291 Cr 308	~200' NW	USMRDS, USMRDS, USMRDS, USMRDS, USMRDS, USMRDS, USMRDS, USMRDS, USMRDS, COAST, COLST	High , USTs associated with a former gas station may be located under CR 308, adjacent to the north of I-70. Soil and groundwater in the project area may have been impacted.
35	Martha Parks	Clear Creek County	~200' NE	USMRDS	Low , listing does not indicate a release.
36	Puzzler, Alkire	Clear Creek County	~200' NW	USMRDS	Low , listing does not indicate a release.
37	Pumpkin	Clear Creek County	~200' NW	USMRDS	Low , listing does not indicate a release.
38	Clear Creek County	Clear Creek County	~200' SW	USSMCRA	Low , former mine.
39	Center Street At Fifth Avenue		~200' NW	COSPILLS, USERNSCO	Low , raw sewage release to irrigation ditch and unidentified substance release from manhole.
40		1711 Miner St, At The Wastewater Treatment Plant	~200' NW	COSPILLS	Low , release of treated wastewater from Idaho Springs treatment plant
41	PSCO-Dumont Sc	681 Cr 308	~200' N	USRCRAGR08	Low , listing does not indicate a release.

Agency Database Number	Facility Name	Facility Address	Distance (feet)/ Direction	Type ¹	Potential to Impact Project Area/Rationale
42	Downieville Fuel Stop Rexoco #35	1039 Cr 308 And 1041-1041A Cr 308	~200' N	COUST, COLST	High , benzene was reported at 0.00075 mg/L in MW-5, 50 feet to the north of County Road 308. Groundwater in the project area may have been impacted.
43	Specht Tunnel	Clear Creek County	~200' NW	USMRDS, USMRDS, USMRDS	Low , listing does not indicate a release.
44	Rising Sun	Clear Creek County	~200' N	USMRDS	Low , listing does not indicate a release.
45	Teddy Bear	Clear Creek County	~300' S	USMRDS, USMRDS, USMRDS, USMRDS, USMRDS, USMRDS	Low , listing does not indicate a release.
46	Ruby Tunnel	Clear Creek County	~200' N	USMRDS	Low , listing does not indicate a release.
47		2911 Colorado Blvd	~300' NW	COUST, COAST, COSPILLS, COSPILLS, COSPILLS, COSPILLS, COSPILLS, COSPILLS	Low , sewage releases from McDonalds. UST and AST listings do not indicate a release.
48		2000 Miner St.	~300' N	COSPILLS	Low , potable water spill to Clear Creek.
49	Ella Tunnel	Clear Creek County	~300' N	USMRDS	Low , listing does not indicate a release.
50	Strip Mine	Clear Creek County	Site and adjacent	USMRDS	High , Impacted fill may be located in the project area.
51		Stanley Rd. & Trail Creek Rd.-Viola Mine Claim	~300' SW	COSPILLS	Low , based on the distance from the Project area.

Agency Database Number	Facility Name	Facility Address	Distance (feet)/ Direction	Type ¹	Potential to Impact Project Area/Rationale
52	Amoco/ Miner Street Shell	1319 Miner Street	~300' N	COCLEANERS , USERNSCO, COUST, COLST, COUST, COAST, COLST, USERNSCO, USHMIRSR08	Low , spill of approximately 15 gallons of gasoline which flowed to a storm drain. Low , based on the analytical results of the soil and groundwater sampling conducted at the LST facilities, as well as the NFA statuses of these facilities.
53	Orphan Tank At Miner Street	1840 Miner St	~300' N	COUST, COLST	Low , based on the analytical results of the soil and groundwater sampling conducted at this facility, as well as the NFA status.
54	Silver City Automotive	243 Colorado Blvd	~300' N	COUST, COLST	Low , based on the analytical results of the soil and groundwater sampling conducted at this facility, as well as the NFA status.
55	Colorado Dept Of Trans - Idaho Springs	I-70 Mp 241.05	~300' NW	COAST, COAST, COSPILLS, COUST, COUST, COLST, USRCRAGR08	Low , based on the analytical results of the soil and groundwater sampling conducted at this facility, as well as the NFA status.
56	Kum & Go	1300 Minor Street	~300' NW	COUST, COLST, COSPILLS	Low , based on the analytical results of the soil and groundwater sampling conducted at this facility, as well as the NFA status.
57		2631 Colorado Blvd	~300' N	COSPILLS	Low , sewage spill to gutters.
58	Idaho Springs Sunmart #501	2833 Colorado Blvd	~400' NW	COAST, COUST	Low , listing does not indicate a release.
59	Camas	1039 Idaho Springs E Rd	~50' S	COAST	Low , listing does not indicate a release.
60	California Tunnel	Clear Creek County	~300' NW	USMRDS	Low , listing does not indicate a release.
61	Anoka County	Clear Creek County	~300' W	USMRDS	Low , listing does not indicate a release.
62	Mc Mickle	Clear Creek County	~300' SW	USMRDS	Low , listing does not indicate a release.

Agency Database Number	Facility Name	Facility Address	Distance (feet)/ Direction	Type ¹	Potential to Impact Project Area/Rationale
75	Red Elephant Project	Clear Creek County	~400' NW	USSMCRA	Low , listing does not indicate a release.
76	S P Chase Partner Newcomb	1630 Miner Street #248	~400' NW	USMSHA	Low , listing does not indicate a release.
77	Former Service Station	2410 Colorado Blvd	~400' N	COAST, COUST, COLST	Low , based on the distance from the project area.
78	Blackwell Oil Co	1246 Miner St	~500' N	COUST, COLST	Low , based on the distance from the project area.
79		25 Dumont Lane	~400' N	COSPILLS	Low , based on the distance from the project area.
80	Stanley Mine	Clear Creek County	~400' SW	USMRDS	Low , listing does not indicate a release.
81	St.George	Clear Creek County	~400' NW	USMRDS	Low , listing does not indicate a release.
82	Mendota Mine	25 Freeland Place P O Box N	~400' SW	USMSHA	Low , based on the distance from the project area.
83	Spring Station Llc	2900 Colorado Blvd	~500' NW	COAST, COLST	Low , based on the distance from the project area.
84		2384 Colorado Blvd	~500' N	COSPILLS	Low , based on the distance from the project area.
85	Clear Creek County Road & Bridge	3549 Clear Creek Cr 312	~500' S	COUST	Low , based on the distance from the project area.
86	Anna B.	Clear Creek County	~600' N	USMRDS	Low , based on the distance from the project area.
87	Ward	Clear Creek County	~500' SW	USMRDS	Low , based on the distance from the project area.
88	Mayflower	Clear Creek County	~500' SW	USMRDS, USMRDS	Low , based on the distance from the project area.
89	Western Convenience #120	2630 Colorado Blvd	~500' N	USALTFUELS, COUST, COLST	Low , based on the distance from the project area.
90		9Th Ave. & Colorado Blvd.	~500' N	COSPILLS	Low , based on the distance from the project area.
91		1856 Colorado Blvd	~500' N	COAST, COUST, COLST, COSPILLS	Low , based on the distance from the project area.
92	Lawson Trailer Court	2038 Cr 308	~500' S	COUST	Low , based on the distance from the project area.

Agency Database Number	Facility Name	Facility Address	Distance (feet)/ Direction	Type ¹	Potential to Impact Project Area/Rationale
93	Jumbo Tunnel	Clear Creek County	~500' SW	USMRDS	Low , based on the distance from the project area.
94	Donna Juanita	Clear Creek County	~500' SW	USMRDS	Low , based on the distance from the project area.
95	Silver King Crosscut	Clear Creek County	~500' SW	USMRDS	Low , based on the distance from the project area.
96	Tall Country Idaho Springs	2806 Colorado Blvd	~600' NW	COUST, COLST, COUST, COAST, COLST, COSWF, COUST	Low , based on the distance from the project area.
97	Cdot Empire	Mp 257.55 Hwy 40	~600' NW	COSWF, COUST, COLST	Low , based on the distance from the project area.
98	Little Harry	Clear Creek County	~600' SW	USMRDS	Low , based on the distance from the project area.
99	Unknown	Clear Creek County	~600' N	USMRDS	Low , based on the distance from the project area.
100	Alkire Tunnel	Clear Creek County	~600' S	USMRDS	Low , based on the distance from the project area.
101	Dumont Pit	Clear Creek County	~600' S	USMRDS	Low , based on the distance from the project area.
102		Clear Creek Near 2189 Idaho Springs Rd East, Idaho Springs 08452	~600' N	COSPILLS, COSPILLS	Low , based on the distance from the project area.
103		16Th Ave & Colorado Blvd	~600' NW	COSPILLS, COSPILLS	Low , based on the distance from the project area.
104	Yy Rental	2712 Colorado Blvd	~600' N	COAST	Low , based on the distance from the project area.
105	Arapaho National Forest	I-70 E Frontage Rd	~600' SW	COAST	Low , based on the distance from the project area.
106	Gladstone Tunnel	Clear Creek County	~600' SW	USMRDS	Low , based on the distance from the project area.
107	Hyland	Clear Creek County	~600' N	USMRDS	Low , based on the distance from the project area.
108	Fairview	Clear Creek County	~600' SW	USMRDS, USMRDS	Low , based on the distance from the project area.

Agency Database Number	Facility Name	Facility Address	Distance (feet)/ Direction	Type ¹	Potential to Impact Project Area/Rationale
109	Sound Shaft	Clear Creek County	~600' N	USMRDS	Low , based on the distance from the project area.
110	Silver Spruce Mill	Unknown	~700' S	COHISTSWLF	Low , based on the distance from the project area.
111		920 Colorado Boulevard	~700' N	COSPILLS, USCDL	Low , based on the distance from the project area.
112	Idaho Springs	Clear Creek County	~700' S	USMRDS	Low , based on the distance from the project area.
113	Bellevue-Rochester	Clear Creek County	~700' S	USMRDS	Low , based on the distance from the project area.
114	Freeland Tunnel	Clear Creek County	~700' S	USMRDS	Low , based on the distance from the project area.
115	Unknown	Clear Creek County	~700' N	USMRDS	Low , based on the distance from the project area.
116	Third Bellevue	Clear Creek County	~700' S	USMRDS	Low , based on the distance from the project area.
117	Torrey 2 Tunnel	Clear Creek County	~700' N	USMRDS	Low , based on the distance from the project area.
118	Pride Of The West	Clear Creek County	~700' SW	USMRDS	Low , based on the distance from the project area.
119	Columbine	Clear Creek County	~700' SW	USMRDS	Low , based on the distance from the project area.
120	Josephine Shaft & Tunnel	Clear Creek County	~800' SW	USMRDS, USMRDS	Low , based on the distance from the project area.
121	Georgetown	Clear Creek County	~800' SW	USMRDS, USMRDS	Low , based on the distance from the project area.
122	Hukill	Clear Creek County	~800' N	USMRDS	Low , based on the distance from the project area.
123	Puzzler	Clear Creek County	~800' SW	USMRDS, USMRDS	Low , based on the distance from the project area.
124	CDOT - Hidden Valley Maintenance	2407 E. County Rd 314	~800' E	COSWF	Low , based on the distance from the project area.
125	New Tunnel	Clear Creek County	~800' S	USMRDS	Low , based on the distance from the project area.
126	Atlantic,	Clear Creek County	~800' N	USMRDS	Low , based on the distance from the project area.
127	Two Kings	Clear Creek County	~900' N	USMRDS	Low , based on the distance from the project area.
128	Accord	Clear Creek County	~1000' S	USMRDS	Low , based on the distance from the project area.
129	Albion	Clear Creek County	~1000' NW	USMRDS	Low , based on the distance from the project area.

Agency Database Number	Facility Name	Facility Address	Distance (feet)/ Direction	Type ¹	Potential to Impact Project Area/Rationale
130	Ophir-Argo	Clear Creek County	~1000' N	USMRDS, USMRDS, USMRDS	Low , based on the distance from the project area.
131	May Queen	Clear Creek County	~1000' NE	USMRDS	Low , based on the distance from the project area.
132	Dubuque	Clear Creek County	~1000' NE	USMRDS	Low , based on the distance from the project area.
133	Morning Star Tunnel	Clear Creek County	~1000' S	USMRDS	Low , based on the distance from the project area.
134	Kanawha	Clear Creek County	~1000' NW	USMRDS	Low , based on the distance from the project area.
135	Waltham	Clear Creek County	~1000' SW	USMRDS	Low , based on the distance from the project area.
136	Old Chief Shaft	Clear Creek County	~1000' N	USMRDS	Low , based on the distance from the project area.
137	Elky Tunnel	Clear Creek County	~1000' S	USMRDS	Low , based on the distance from the project area.
138	Star Mine	Clear Creek County	~1100' SW	USMRDS	Low , based on the distance from the project area.
139	Lincoln	Clear Creek County	~1100' SW	USMRDS	Low , based on the distance from the project area.
140	Devils Canyon Project	Clear Creek County	~1100' N	USSMCRA	Low , based on the distance from the project area.
141	De Caprivi Mine	Clear Creek County	~1100' S	USMRDS	Low , based on the distance from the project area.
142	Bronaber	Clear Creek County	~1100' N	USMRDS	Low , based on the distance from the project area.
143	Syracuse	Clear Creek County	~1100' NE	USMRDS	Low , based on the distance from the project area.
144			~1100' SW	COCDL	Low , based on the distance from the project area.
145	Sutro Comstock	Clear Creek County	~1200' N	USMRDS	Low , based on the distance from the project area.
146	Franklin D Tunnel	Clear Creek County	~1200' S	USMRDS	Low , based on the distance from the project area.
147	Rockford	Clear Creek County	~1200' SW	USMRDS, USMRDS	Low , based on the distance from the project area.
148	Stella-Independence Shaft	Clear Creek County	~1200' N	USMRDS	Low , based on the distance from the project area.
149		1938 Wall St	~1200' N	USCDL	Low , based on the distance from the project area.
150	Golden Calf Shaft	Clear Creek County	~1200' N	USMRDS, USMRDS	Low , based on the distance from the project area.
151	Hiawatha Gulch Phase II	Clear Creek County	~1300' N	USMRDS, USMRDS, USSMCRA	Low , based on the distance from the project area.

Agency Database Number	Facility Name	Facility Address	Distance (feet)/ Direction	Type ¹	Potential to Impact Project Area/Rationale
152	Aurum	Clear Creek County	~1300' N	USMRDS	Low , based on the distance from the project area.
153	Mastedon	Clear Creek County	~1300' NE	USMRDS, USMRDS	Low , based on the distance from the project area.
154	Annamosa	Clear Creek County	~1300' S	USMRDS	Low , based on the distance from the project area.
155	Platts Big Chance	Clear Creek County	~1300' S	USMRDS	Low , based on the distance from the project area.
156	Equinox Shaft	Clear Creek County	~1300' N	USMRDS, USMRDS	Low , based on the distance from the project area.
157	Kent Tunnel	Clear Creek County	~1300' S	USMRDS	Low , based on the distance from the project area.
158	Little Ella	Clear Creek County	~1300' N	USMRDS	Low , based on the distance from the project area.
159	Clear Creek Shaft	Clear Creek County	~1300' SW	USMRDS	Low , based on the distance from the project area.
160	United Gold	Clear Creek County	~1300' N	USMRDS	Low , based on the distance from the project area.
161	Csm Experimental Mine	365 8Th Street	~1300' N	USSEMSARCH	Low , based on the distance from the project area.
162	Bullion King Ram	Bullion King Mine	~1900' SW	USSEMS	Low , based on the distance from the project area.
163	Miner'S Candle	Clear Creek County	~2200' S	USSMCRA	Low , based on the distance from the project area.
164	Queen Elizabeth/Tom Boy	Virginia Near Idaho Springs	~2200' N	USSEMS	Low , based on the distance from the project area.
165	Nobel Project	Clear Creek County	~2500' N	USSMCRA	Low , based on the distance from the project area.

Notes:

¹ Potential impacts are assessed based on depth and direction of groundwater flow, and distance from project area. See the Appendix C, Agency Database, for the property number.

Appendix D MESA I-70 Eastbound Peak Period Shoulder Lane, Empire Junction to Idaho Springs, Colorado

March 12, 2014

Modified Environmental Site Assessment

I-70 Eastbound Peak Period Shoulder Lane

Empire Junction to Idaho Springs
Clear Creek County, Colorado

Prepared For:

HDR Engineering, Inc.
1670 Broadway
Suite 3400
Denver, Colorado 80202

Pinyon Project No.:

1/13-191-01.8001

CDOT Project No.:

NHPP 0703-401 (19474)





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March 12, 2014

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CDOT Project No.:

NHPP 0703-401 (19474)

Prepared by:

A handwritten signature in blue ink, appearing to read "Timothy Grenier", written over a horizontal line.

Timothy Grenier, E.I.T.
Environmental Engineer

Reviewed by:

A handwritten signature in blue ink, appearing to read "Lauren E. Evans", written over a horizontal line.

Lauren E. Evans, P.E.
President

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Appendices

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Appendix C	Photographic Log
Appendix D	Glossary of Terms
Appendix E	Origins Laboratory Soil Analytical Report
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I. Introduction

I.1 Site Location (see also Section 2.0)

Site: I-70 Eastbound Peak Period Shoulder Lane

Address: Empire Junction to Idaho Springs (Figures 1 and 2)

City, State: Clear Creek County, Colorado

I.2 Purpose and Scope of Services

The purpose of this assessment was to perform an evaluation for the potential presence of hazardous and/or toxic materials (otherwise known as “Recognized Environmental Conditions” or “Controlled Recognized Environmental Conditions”)¹ at the Site. This report is made pursuant to all appropriate inquiry into the prior ownership and uses of the Site, consistent with good commercial and customary practices appropriate to a commercial purchaser or fee owner of real property, and is intended to permit the user to satisfy one of the requirements to qualify for landowner liability protection.

This Modified Environmental Site Assessment (MESA) generally meets the requirements of the ASTM *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process (E 1527-13)*, with the deviations noted in Section 7.1, and the Colorado Department of Transportation (CDOT), *Modified Environmental Site Assessment (M-ESA) Guidance*. The report was formatted for reading ease and does not follow the suggested ASTM format.

The scope of services for the project included the following:

I. Records Review.

- An evaluation of historical Site use, by reviewing the following sources:
 - Aerial photographs reasonably available from public sources;
 - Historical United States Geological Survey (USGS) topographic maps;
 - Fire insurance maps;
 - Property tax files; and
 - Zoning and land use records.

¹ Recognized environmental (RECs) are defined conditions by ASTM as the presence or likely presence of any hazardous substances or petroleum products in, on or at a property: (1) due to release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. A controlled recognized environmental condition (CREC) is defined by ASTM as a REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority, with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls. The terms REC and CREC, do not include *de minimis* conditions that do not present a threat to human health or the environment and that would not be the subject of an enforcement action if brought to the attention of appropriate environmental agencies.

- A review of the compliance history of the Site, and of any adjacent sites, as identified by the regulatory database survey (Appendix A).
 - A review of records reasonably available from appropriate federal, state and local regulatory agencies for documented soil and/or groundwater contamination investigations conducted at the Site and the vicinity, as defined by the CDOT MESA Guidelines.
 - A review of available documents from local agencies (Table I) to evaluate development of the Site and, where reasonably available or relevant to the Site, the adjacent properties.
 - A review of information regarding the physical settings of the Site, including:
 - The current USGS 7.5-minute topographic map;
 - Geology information published by the USGS;
 - National Resource and Conservation Service (NRCS) soil surveys; and
 - Groundwater information published by the USGS.
2. **Site Reconnaissance.** A reconnaissance survey of the Site and surrounding areas was completed on September 24, 2013, to evaluate present conditions.
3. **Interviews.** The owner interview was not conducted as part of this Modified ESA as most, if not all, work will be completed within CDOT right of way.
4. **Additional Services.** A limited Phase II ESA was completed concurrently with this Modified ESA (Section 3.3.2).

Report. Presentation of the aforementioned services in this report.

Qualifications. The environmental site assessment activities described herein were conducted in accordance with generally accepted standards, practices, and procedures (expressed or implied) in effect at the time of the project, relative to the All Appropriate Inquiry (as defined under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) 42 USC Section 9601, et. Seq.). Numerous individuals were contacted for information about the Site and surrounding areas (Table I). Relevant information was also obtained from published sources (referenced in Section 6.0).

The project was completed by an Environmental Professional, or conducted under the supervision or responsible charge of an Environmental Professional. At a minimum, the Environmental Professional was involved in planning the Site reconnaissance and interviews, and reviewed and interpreted the information used in developing the conclusions. Pinyon declares that, to the best of our professional knowledge and belief, the Environmental Professionals involved met the definition as defined in §312.1 of 40CFR 312. Other persons involved are qualified individuals, and have the training and experience necessary to complete their assigned tasks. These personnel have the specific qualifications based on education, training and experience to assess a property of the nature, history and setting of the subject property (Site). Pinyon has developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312. Resumes of the personnel involved in this project are included as Appendix B.

2. Project and Site Information

2.1 Project Overview

Date of Task Order: September 5, 2013

Work Authorized By: Tammy Heffron, HDR Engineering, Inc.

Purpose of Modified ESA:

The purpose of the Modified ESA is to evaluate the potential for soil and/or groundwater contamination at the Site, due to a release of hazardous substances or petroleum products. This Modified ESA is being performed at the request of HDR in order to fulfill CDOT requirements for a National Environmental Policy Act (NEPA) study of a proposed corridor project (CDOT Project # NHPP 0703-401 [19474]).

Proposed Action:

The purpose of the I-70 PPSL project is to provide short-term eastbound operational improvements to relieve traffic congestion during periods when traffic volumes are highest. This segment is the most congested stretch of the entire I-70 Mountain Corridor. During both the summer and winter peak season, traffic volumes are highest on weekends when recreational travelers comprise more than 90 percent of traffic. In 2010, drivers experienced speeds of less than 20 miles per hour for 35 percent of the time on Sundays, which have the highest volume. Some motorists divert to the frontage road along I-70, which affects its ability to function as a local access county road.

The Proposed Action would add a peak period shoulder lane between the US 40/I-70 interchange and east Idaho Springs. This managed lane would be used during peak periods, defined as Saturdays, Sundays, and holidays, improving travel times and operations. The project extends from milepost 230 to milepost 243, with improvements proposed as follows:

- Milepost 230 to milepost 232: signage improvements only. Signage would notify motorists of the status of the managed lane, entrance and exit points, and cost.
- Milepost 232 to milepost 242: roadway improvements, including: up to 3.5 feet of widening in select areas to accommodate the managed lane, up to 14 feet of widening at the SH 103 on ramp and 4 feet to 8 feet of widening at all other on-ramps in the corridor, replacement of the existing SH 103 bridge, bridge replacement and interchange improvements at Exit 241, improvements to Water Wheel Park, signage, rock cuts in two locations, and construction of 11 retaining walls.
- Milepost 242 to milepost 243: signage improvements only.

The managed lane, which would be tolled, would operate up to, but not exceed, 20 percent of the annual days or 7.5 percent of the time, and connect to the three-lane section provided by the Twin Tunnels project, east of Idaho Springs, thereby capitalizing on that investment.

The improvements will be consistent with the I-70 Mountain Corridor Programmatic Environmental Impact Statement (PEIS) Record of Decision (ROD), I-70 Mountain Corridor Context Sensitive Solutions process, and other commitments of the PEIS. The Proposed Action fits within the definition of “expanded use of existing transportation infrastructure in and adjacent to the corridor” as an element of the Preferred Alternative Minimum Program.

2.2 General Site Information and Current Conditions

Site Location (Figures 1 and 2):

Address:	Empire Junction to Idaho Springs
City, State:	Clear Creek County, Colorado
County:	Clear Creek
Intersections:	US-40 interchange; the I-70 interchange exits of Lawson, Downieville, Dumont, and Fall River Road; the I-70 interchange with SH-103; and the east Idaho Springs interchange.
Other Roads:	None

Site Information:

Assessor's Number:	The Site is comprised of publicly owned right of way (ROW) and easement areas with no associated parcel numbers.
Current Site Owner:	Not Applicable
Status:	Developed as publicly owned ROW
Current Zoning:	Not Applicable

Site Reconnaissance Information:

Date of Site Visit:	September 24, 2013
Personnel:	Mr. Tim Grenier, Pinyon
Escorts:	None
Methodology:	The Site was walked along the perimeter, where possible. The immediately adjacent properties were observed from the Site and surrounding roads. Notes regarding Site conditions were made on field aerial photographs and in a field notebook. The Site was observed entirely from public ROW.
Inaccessible Areas:	None
Limiting Conditions:	Due to the fact that the Site is an active interstate highway, it was not possible to walk a vast majority of the Site.

Current Site Use and Conditions:

Buildings/Structures on Site:

None

Parking Area(s):

None

Other Use(s):

US-40 Interchange ROW; I-70 and Lawson interchange ROW; I-70 and Downieville Interchange ROW; I-70 and Dumont Interchange ROW; I-70 and Fall River Road Interchange ROW; I-70 business loop ROW; I-70 and SH-103 interchange ROW; east Idaho Springs interchange; and the west Idaho Springs interchange and utility easements.

Site Description and Former Uses:

Exterior:

The Site is located within the ROW of I-70, the US-40 interchange, the I-70 interchange exits of Lawson, Downieville, Dumont, and Fall River Road, the I-70 interchange with SH-103 and the east Idaho Springs interchange. The Site does not include any private property. These areas are currently utilized as roadway which serves as access to multiple types of properties. The ROW is generally vacant with the exception of existing interstate improvements (e.g., roadway and associated embankment, culverts, shoulders, medians, above-ground utilities, and below-grade utilities).

Interior:

Building structures were not present on the Site.

Past Uses if Visible:

None.

Photographs of the Site are provided in Appendix C. General Site observations required by the ASTM standard practice are summarized in Section 3.2. A glossary of terms is included as Appendix D.

3. Site Description

3.1 Physical Setting

3.1.1 Topography

The topography of the Site is variable, as the project is located in a mountainous region. Generally, I-70 follows Clear Creek, with the areas to the north and south of the roadway sloping towards Clear Creek. The general topographic gradient for the area is towards the east (Figure 1).

3.1.2 Elevation

The elevation of the Site ranges from approximately 8,280 feet above mean sea level (msl) at the western project boundary to 7,480 feet above msl at the eastern boundary (USGS, 2013 and 2011).

3.1.3 Surficial Soil

Surficial soils within the project area consist of 16 different soil units (Table 3-1) present on cliffs, ridges, mountain slopes, terraces, drainage ways and alluvial fans (USDA, 2013). The soils were mostly derived from the weathering of igneous and metamorphic rocks; however, mine spoils and earthy fill have also been mapped within the Site. The soil units are present in various combinations at the Site.

Table 3-1 Soil Units

Soil Unit Descriptions	Parent Type
<p><u>Arents Description</u> Somewhat excessively drained, occurs on mountain slopes and talus slopes. <i>Typical soil profile</i> 0 to 24 inches: Very cobbly loamy coarse sand 24 to 28 inches: Gravelly sandy loam 28 to 60 inches: Extremely cobbly loamy sand</p>	<p>Mine spoil, earthy fill, or acidic mine spoil</p>
<p><u>Bendemeere Description</u> Well drained, occurs on mountain slopes <i>Typical soil profile</i> 0 to 1 inches: Slightly decomposed plant material 1 to 3 inches: Very gravelly sandy loam 3 to 10 inches: Gravelly coarse sandy loam 10 to 21 inches: Very cobbly coarse sandy loam 21 to 30 inches: Very gravelly loamy coarse sand 30 to 42 inches: Very gravelly loamy sand 42 to 50 inches: Gravelly loamy sand 50 to 62 inches: Very gravelly coarse sandy loam</p>	<p>Micaceous colluvium derived from igneous and metamorphic rock</p>
<p><u>Breece Description</u> Well drained, occurs on alluvial fans and drainage ways <i>Typical soil profile</i> 0 to 7 inches: Gravelly sandy loam 7 to 20 inches: Gravelly sandy loam 20 to 42 inches: Gravelly coarse sandy loam 42 to 72 inches: Gravelly sandy loam</p>	<p>Alluvium and slope alluvium derived from igneous and metamorphic rock</p>

Soil Unit Descriptions	Parent Type
<p><u>Cathedral Description</u> Well-drained, occurs on mountain slopes and ridges Typical soil profile 0 to 3 inches: Very cobbly coarse sandy loam 3 to 11 inches: Very gravelly sandy loam 11 to 15 inches: Unweathered bedrock</p>	<p>Weathered igneous and metamorphic rock</p>
<p><u>Cumelic Cryaquolls</u> Poorly drained, occurs on drainage ways Typical soil profile 0 to 21 inches: Loam 21 to 64 inches: Very gravelly sand</p>	<p>Alluvium derived from igneous and metamorphic rock</p>
<p><u>Dumps, Mines Description</u> Typical profile 0 to 60 inches: Fragmented material</p>	<p>Acidic mine spoil or earthy fill derived from igneous and metamorphic rock</p>
<p><u>Kataka Description</u> Well-drained, occurs on mountain slopes and ridges Typical soil profile 0 to 5 inches: Very gravelly loam 5 to 10 inches: Very gravelly sandy loam 10 to 18 inches: Very cobbly clay loam 18 to 31 inches: Extremely stony clay loam 31 to 38 inches: Weathered bedrock</p>	<p>Micaceous colluvium derived from igneous and metamorphic rock</p>
<p><u>Lininger Description</u> Well drained, occurs on ridges Typical soil profile 0 to 9 inches: Gravelly sandy loam 9 to 39 inches: Sandy clay loam 39 to 43 inches: Weathered bedrock</p>	<p>Micaceous colluvium and/or slope alluvium over residuum weathered from igneous and metamorphic rock</p>
<p><u>Lone Rock Description</u> Somewhat excessively drained, occurs on alluvial fans and terraces. Typical soil profile 0 to 9 inches: Gravelly sandy loam 9 to 28 inches: Very gravelly loamy sand 28 to 60 inches: Extremely gravelly sand</p>	<p>Alluvium derived from igneous and metamorphic rock</p>
<p><u>Mammoth description</u> Well-drained, occurs on mountain slopes. Typical soil profile 0 to 1 inches: Slightly decomposed plant material 1 to 10 inches: Very gravelly sandy loam 10 to 16 inches: Gravelly loam 16 to 22 inches: Very gravelly loamy sand 22 to 59 inches: Very gravelly sandy loam 59 to 67 inches: Stony loamy coarse sand</p>	<p>Igneous and metamorphic rock</p>

Soil Unit Descriptions	Parent Type
<p><u>Ohman Description</u> Well-drained, occurs on mountain slopes and ridges. <i>Typical soil profile</i> 0 to 2 inches: Slightly decomposed plant material 2 to 5 inches: Very stony sandy loam 5 to 21 inches: Very gravelly sandy loam 21 to 35 inches: Extremely gravelly sandy loam 35 to 39 inches: Weathered bedrock</p>	Igneous and metamorphic rock
<p><u>Resort Description</u> Somewhat excessively drained, occurs on mountain slopes and ridges <i>Typical soil profile</i> 0 to 1 inches: Slightly decomposed plant material 1 to 6 inches: Very stony sandy loam 6 to 14 inches: Extremely cobbly loamy sand 14 to 18 inches: Weathered bedrock</p>	Micaceous sandy residuum weathered from igneous and metamorphic rock
<p><u>Rock Outcrop Description</u> Occurs on cliffs, mountain slopes, and ridges <i>Typical soil profile</i> 0 to 60 inches: Unweathered bedrock</p>	Igneous and metamorphic rock
<p><u>Tolland Description</u> Well drained, occurs on mountain slopes <i>Typical soil profiles</i> 0 to 1 inches: Slightly decomposed plant material 1 to 2 inches: Moderately decomposed plant material 2 to 5 inches: Very gravelly sandy loam 5 to 11 inches: Very gravelly coarse sandy loam 11 to 50 inches: Extremely gravelly loamy coarse sand 50 to 69 inches: Extremely cobbly loamy coarse sand</p>	Micaceous sandy colluvium derived from igneous and metamorphic rock
<p><u>Trag Description</u> Well drained, occurs on mountain slopes <i>Typical soil profile</i> 0 to 4 inches: Gravelly sandy loam 4 to 14 inches: Gravelly sandy clay loam 14 to 27 inches: Cobbly sandy clay loam 27 to 45 inches: Cobbly clay loam 45 to 60 inches: Gravelly sandy clay loam</p>	Alluvium and/or slope alluvium derived from igneous and metamorphic rock
<p><u>Typic Cryaquents</u> Poorly drained, occurs on oxbows and floodplains <i>Typical soil profile</i> 0 to 3 inches: Fine sandy loam 3 to 18 inches: Cobbly sand 18 to 29 inches: Loam 29 to 32 inches: Clay loam 32 to 44 inches: Sand 44 to 60 inches: Very gravelly sand</p>	Alluvium derived from igneous and metamorphic rock

3.1.4 Geology

Surficial units in the project area mainly consist of alluvium, colluvium, glacial materials, and debris sheets from the Quaternary period. The Idaho Springs area also consists of a significant amount of outwash deposits of Wisconsin glacial stage from the Pleistocene epoch. The Site is also built onto a small portion of Bostonite and Quartz Monzonite groups on the north side of I-70, east of the town of Dumont. The Bostonite group includes quartz bostonite porphyry, trachytic granite porphyry, and bostonite porphyry from the Tertiary epoch. The Quartz Monzonite group includes alaskite porphyry, granite porphyry, and quartz monzonite porphyry from the Tertiary epoch (Bastin and Hill, 1917) (Sims, 1964) (Braddock, 1969).

The bedrock underlying the Site is classified as Precambrian feldspar-rich, fine- to medium-grained gneiss, characterized by conspicuous foliation and interlayered with hornblend and amphibolite gneisses. Fine layering is evident in some of the gneiss, expressed by interlamination of biotite-rich and biotite-poor layers (Sheridan and Marsh, 1976).

3.1.5 Nearest Surface Water Body

The closest surface water body to the Site is Clear Creek, which parallels I-70 on either the north or south side throughout the Site (Figure 1). The elevation of this feature is 8,280 feet above msl at the western portion of the Site and is 7,480 feet above msl at the eastern portion of the Site.

3.1.6 Groundwater Conditions

The Site is in an area where the water table conditions predominate in the unconsolidated alluvial deposits near and within the Clear Creek floodplain. Based on soil borings completed on-Site (Section 3.3.2), the groundwater elevation at the Site is expected to be generally 10 to 20 feet below ground surface (bgs), and flow direction would likely mimic the flow direction of Clear Creek (toward the east). Tributaries to Clear Creek are also present in the Site; the main tributaries are Soda Creek, Trail Creek, Mill Creek, Fall River, and Chicago Creek (which runs parallel to SH-103 and flows into Clear Creek near SH-103 bridge structure F-14-E).

3.2 General Site Environmental Conditions

During the Site visit, Site uses and conditions, as defined by the ASTM Standard (ASTM, 2005, Section 9), were noted (Table 3-2). Where observations indicated the potential presence of environmental conditions, additional discussion is presented in the sections immediately following the table.

Table 3-2 Summary of General Site Observations

Potential Environmental Concern	Observed Present?	Section for Additional Information	Potential Environmental Concern	Observed Present?	Section for Additional Information
Hazardous substances and petroleum products	No	--	Drains and Sumps	No	--
Hazardous substance and product containers	No	--	Pits, Ponds and Lagoons	No	--

Potential Environmental Concern	Observed Present?	Section for Additional Information	Potential Environmental Concern	Observed Present?	Section for Additional Information
Storage Tanks	No	--	Stained Soil or Pavement	No	--
Odors	No	--	Stressed Vegetation	No	--
Pools of Liquid	No	--	Solid Waste	No	--
Drums	No	--	Fill Material	Yes	3.2.2
PCBs	Yes	3.2.1	Waste Water	No	--
Heating and Cooling	No	--	Wells	No	--
Stains and Corrosion	No	--	Septic System	No	--

3.2.1 PCBs

Transformers

No electric transformers were identified on the Site; however, 17 pole-mounted electric transformers were identified in the vicinity of the Site. Due to the fact that the Site is an active interstate and the surrounding properties were mainly private property, it was not possible to walk a vast majority of the Site. Therefore, it was not possible to get an exact count on the number of transformers located within vicinity of the Site. The transformers that were observed appeared to be in good condition with no obvious signs of staining.

3.2.2 Improper Waste/Debris Disposal/Fill Material

The United States Department of Agriculture (USDA) maps indicate that surficial soils in two areas within the Site are potentially derived from mine-related waste (Figure 2). One is located at the east end of Idaho Springs and the other is located in the town of Dumont (Section 4.2).

The majority of I-70 has been constructed on embankment fill, which was confirmed during geotechnical investigations completed by Yeh and Associates (Yeh) in support of this CDOT project. Geotechnical investigations have been completed in support of this CDOT project, which included drilling of numerous vertical soil borings in locations where structural elements are anticipated (e.g., retaining walls and new bridge abutments). During those drilling activities, Pinyon personnel collected representative soil samples of fill material to evaluate potential environmental conditions. Detailed discussion of the sampling methods, analytical methods, and sampling results is included in this Modified ESA report in Section 3.3.2.

3.3 Other Environmental Conditions

In addition to features defined by the ASTM Standard, Pinyon evaluated several non-scope issues, as discussed below.

3.3.1 Asbestos Containing Building Materials (ACBMs)

Asbestos-containing utilities may be encountered during the construction of this project. Asbestos-containing transite pipes and magnesia block-insulated utilities are occasionally found unexpectedly during excavation activities that involve existing known or unknown buried utilities. There is a possibility that asbestos-containing materials (ACM) may be encountered associated with buried utilities within the study area.

Additionally, a Pre-Demolition/Renovation Asbestos and Lead-Paint Survey Inspection Report was completed for the bridge structure carrying SH-103 over I-70 (F-14-E) (Walsh, 2013), and the East Idaho Springs Interchange (F-14-Y) (Walsh, 2014). On bridge structure F-14-E, a total of five suspected asbestos-containing materials were identified and sampled. The results of the samples collected indicated that asbestos was not detected. On bridge structure F-14-Y, one suspected asbestos-containing material was identified and sampled. The results of the sample collected indicated that asbestos was not detected.

3.3.2 Lead Paint

CDOT requires that painted structures proposed for removal and/or demolition at projects (e.g., signal poles, bridges, and concrete abutments) be evaluated for lead content. Knowing the presence of lead paint on project components is used to evaluate: 1) worker health and safety considerations; and 2) recycling and/or disposal options.

CDOT does not expect that painted materials having a total lead content of less than 0.01 percent (%) in paint would exceed Resource Conservation and Recovery Act (RCRA) Hazardous Waste Limits for landfill leaching and disposal. When paint samples contain lead concentrations exceeding 0.01%, CDOT requires analysis by the Toxicity Characteristic Leachate Procedure (TCLP). That sample should include not only paint, but a representative sample of the substrate to which the paint is adhered (e.g., concrete). If after TCLP analysis the results are less than 5.0 milligrams per liter (mg/L), the material may be disposed as solid waste at a permitted Subtitle D landfill. If the results are equal to or exceed 5.0 mg/L, then lead paint must be abated prior to demolition and disposal. TCLP analysis is required where the total lead concentration is greater than 0.01%, and the substrate to which the paint is adhered is not metal (see below).

CDOT requires that all metal project components (e.g., light poles, metal railing, and bridge girders) be recycled. As these materials are recycled, and not disposed at a landfill, it is not necessary to evaluate the content of lead by TCLP, regardless of concentration. The recycling facility must be notified that metal project components contain lead, if applicable. Regardless of lead content, the future contractor must comply with Occupational Safety and Health Administration (OSHA) Regulation 1926.62 for worker safety.

For this project, lead paint was evaluated for bridge structures F-14-E and F-14-Y (Walsh, 2013 and Walsh, 2014, respectively). Lead was detected at several locations on metal project components (Table 3-3).

Table 3-3 Lead Sample Designation, Location, Description, and Results

Sample Designation	Location	Substrate	Color	Condition	Total Lead Content (percent)
Bridge F-14-E (SH-103 over I-70)					
F14E-LBP01	Guardrail System	Metal	Green	Poor	0.36

Sample Designation	Location	Substrate	Color	Condition	Total Lead Content (percent)
FI4E-LBP02	Guardrail	Metal	Silver	Poor	0.66
FI4E-LBP03	6" Pipe under bridge	Metal	Silver	Poor	0.045
FI4E-LBP04	6" Pipe under bridge	Metal	Red	Poor	<0.012
FI4E-LBP05	8" Pipe under bridge	Pipe Wrap	Silver	Poor	0.008
Bridge F-14-Y (East Idaho Springs Interchange)					
FI4Y-LBP01	Guardrail and Barrier System	Concrete	Adobe	Good	BRL
FI4Y-LBP02	Fence System	Metal	Brown	Good	0.042

BRL – Below the reporting limit

3.3.3 Limited Phase II Environmental Site Assessment

Early research supporting this Modified ESA, including the I-70 Programmatic Environmental Impact Statement (PEIS), indicated that mine wastes could be a REC, based on significant mineral extraction and processing that historically occurred in the project vicinity (see Section 4.2). CDOT requested that several non-scope (ASTM) services be completed to evaluate the potential RECs. The following services were completed:

- CDOT requested that soil samples be collected concurrently during geotechnical drilling activities in order to further understand potential contaminant issues.
- A groundwater sample was collected in the vicinity of SH-103 (YA-B-5), as there are automotive fueling stations in the vicinity of the new bridge (Figure 2) (Section 4.1). Additionally, a groundwater sample was collected in the vicinity of the East Idaho Springs Interchange (YA-B-1), as there are automotive fueling stations in the vicinity.
- The methodology utilized to support the soil and water sampling is presented in a Sampling and Analysis Plan (SAP) prepared by Pinyon to support the Twin Tunnels project, dated November 23, 2011 (Pinyon, 2011). The SAP presents the protocols to sample and analyze potential regulated materials, specifically those related to mine-related waste. Samples were visually described, the colors evaluated using Munsell Soil Color Charts (Munsell, 2000) to further evaluate potential mine waste. Procedures included evaluating soils within the construction zone, focusing on visually identifying mine wastes in areas where significant excavation would be located (e.g., new bridge, widening, retaining walls) to expand the knowledge about contaminants that could occur in the significant disturbance areas.

As requested by CDOT, on select dates between August 27, and February 18, 2014, Pinyon collected soil and groundwater samples concurrently with the geotechnical investigation, completed by Yeh. Soil and

groundwater laboratory reports are attached to this report as Appendix E and F, respectively. Soil samples were placed in laboratory-supplied containers and submitted for analysis of:

- Eight Resource Conservation and Recovery Act (RCRA) metals by U.S. EPA Method 6010/7471, and;
- pH by U.S. EPA Method 9045C.

Groundwater samples were also analyzed for RCRA 8 metals, as well as volatile organic compounds by U.S. EPA Method 8260, and pH using field instrumentation, near the bridge at SH-103 and at the East Idaho Springs interchange due to the potential that dewatering and/or discharge would be necessary during bridge construction.

3.3.3.1 Soil Sample Results

In general, the material encountered during drilling included varying depths of fill material composed of sandy, angular to sub-angular gravel sidecast with cobbles and boulders derived from presumably local metamorphic and igneous rock sources. This material overlays rounded gravels, cobbles and boulders, assumed to be alluvium associated with Clear Creek. The color of this material ranged from dark grayish brown, to olive brown and brown.

2012 Twin Tunnels Samples: Five soil samples were collected in the PPSL project limits, originally supporting the Twin Tunnels project, in July and August of 2012 (Figure 2, 3, and 4; Table 3-4). Due to the inclusion within the PPSL project limits (the western boundary of Idaho Springs), the results were considered for this project.

PPSL Samples: Twenty-four soil samples from 22 geotechnical borings were collected by Pinyon for laboratory analysis between August 27, and November 14, 2013 (Figure 2). Nine samples were collected in the vicinity of SH-103 bridge structure F-14-E. Significant subsurface work will be conducted in this area during the removal and reconstruction of the bridge. The remaining borings were advanced in support of proposed retaining wall structures and were collected by Pinyon throughout the project area (Figures 2, 3 and 4). Metals were detected at concentrations exceeding the U.S. EPA Regional Screening Levels (RSLs) for Industrial Soils in some soil samples (Table 3-3).

2012 Twin Tunnels Sample Results: The sample results were compared to the U.S. EPA RSLs for Industrial Soils as directed by the Colorado Department of Public Health and Environment (CDPHE). Metals were detected in all five soil samples collected. Lead was detected in two of the samples collected (both from boring YA-S-1) at concentrations above the RSL of 800 mg/kg for industrial soils. The samples were collected at depths of 13 to 18 feet bgs and 18 to 23 feet bgs within the boring; the concentrations detected were 37,000 and 29,000 mg/kg of lead, respectively (Pinyon, 2012).

Arsenic was detected in all five soil samples at levels above the current industrial RSL (2.4 mg/kg) (Table 3-3).

PPSL Sample Results: With the exception of arsenic, the concentrations of the metals detected in the soil samples collected throughout the remainder of the project area were below the industrial-use RSL. The concentrations of arsenic detected ranged from below the laboratory reporting limit to 14.6 mg/kg. Arsenic was detected in eight of the samples at levels above the RSL for industrial use (Table 3-3).

The pH readings of the soil samples ranged between 4.4 and 8.08 which did not exceed the hazardous material limit for waste characterization.

In Colorado, arsenic occurs naturally. The CDPHE released guidance related to evaluating arsenic concentrations in soil, specifically regarding screening data collected from sites where historical use does not

indicate the potential for arsenic contamination (CDPHE, 2011b). The guidance is based on the collection of over 2,700 samples from 44 counties in Colorado. The average concentration of arsenic in soils based on this sampling was 11 mg/kg. The CDPHE has adopted a policy that, if arsenic concentrations are lower than 11 mg/kg, and releases of arsenic could not have occurred at the site, the CDPHE will require no further action to address arsenic in soil. In samples YA-S-2 and YA-02, collected by Pinyon in the area of the SH-103 bridge structure, 16 mg/kg and 12.9 mg/kg of arsenic were detected, respectively (Figure 4). In sample YA-S-1, collected near the western boundary of Idaho Springs, arsenic was detected at concentrations of 190 mg/kg and 540 mg/kg of arsenic, respectively.

Table 3-4 Soil Sample Results

Sample Location	Depth (feet)	Date	Comment	Analyte		pH	
				Arsenic	Lead		
				Industrial RSL (mg/kg)	2.4	800	NS
				Hazardous Material Limit (mg/L)¹	5	5	<2.0 : >12.6
2012 Results Supporting Twin Tunnels Project within the PPSL Project							
YA-S-1	13-18	7/12/2012	Clay with sand, fine to course grained, slightly moist, medium stiff to stiff, pale olive (5Y 6/4); soft drilling, oxidized, possible mine waste.	190 <0.05²	37,000 200²	4.7	
YA-S-1	18-23	7/12/2012	Clay with sand, very silty, medium moist to moist, soft, pale olive (5Y 6/4), possible mine waste by visual observation.	540 <0.05²	29,000 200²	4.4	
YA-S-2	0-8	7/17/2012	Clay, very sandy with gravel, silty, medium moist, medium stiff, very dark gray (10YR 3/1) to sand/gravel, fine to very course grained, silty, medium moist, dense to hard, dark yellowish brown (10YR 4/4); wet at eight feet.	16	180	6.5	
YA-S-3	0-23	7/17/2012	Possible fill, sand, very gravelly, silty, medium moist, medium dense to dense, very dark grayish brown (10YR 3/2) to very yellowish brown (10YR 4/4)	2.5	14	6.7	
YA-S-4	0-13	8/1/2012	Possible fill, gravelly sand to gravelly cobble, medium moist to dense, dark yellowish brown (10YR 4/4 and 4/2)	2.9	28	6.3	
2013 Results Supporting PPSL Project							
YA-02	13.5-18.5	8/28/2013	SP/GP, clayey, medium density, dark brown (10YR 3/3)	12.9	99.9	NA	
B-3	14-18	9/3/2013	SP/GP, gray/brown medium sand with semi-rounded gravel, moist (10YR 4/2)	<3.22	11.1	8.00	
B-4	10-15	9/4/2013	SP, dark brown very coarse sand with lesser gravel, loose, wet, gravel is sub-angular to sub-rounded (10YR 3/2)	1.21	9.95	7.16	

Sample Location	Depth (feet)	Date	Comment	Analyte		pH
				Arsenic	Lead	
				Industrial RSL (mg/kg)	2.4	800
Hazardous Material Limit (mg/L) ¹	5	5	<2.0 : >12.6			
B-4	25-30	9/4/2013	Dark brown, very coarse sand with lesser sub-angular to sub-rounded gravel, loose, wet (10YR 3/2)	3.96	10.8	6.42
YA-B-5	25	9/26/2013	Orange/brown clayey sand with sub-rounded gravel, wet (10YR 5/8)	<3.26	11.2	7.30
YA-DOW-2	3.5-8.5	11/6/2013	Very dark brown, more fines, gravelly and sandy (10YR 3/2)	3.70	72.4	7.26
YA-DOW-3	3.5-8.5	11/7/2013	Clayey sand, some gravel, medium brown, dry to moist, medium plasticity, medium density (10YR 4/3)	1.88	21.5	7.51
YA-DOW-4	3.5-8.5	11/7/2013	Dark gray brown, silty sand with some gravel, low plasticity, medium density (10YR 3/2)	1.20	24.2	7.6
YA-DOW-5	0-3.5	11/7/2013	Yellow, powdery very fine sand, medium plasticity, medium density (10YR 7/2)	1.30	35.6	7.92
YA-DOW-5	3.5-8.5	11/7/2013	Medium brown, silty sand, some gravel, low plasticity, medium density (10YR 4/3)	1.16	33.8	7.62
YA-DOW-6	3.5-8.5	11/8/2013	Light grey/brown to reddish brown clayey sand, some gravel, low plasticity, medium density (10YR 5/2 to 7.5YR 4/4)	4.83	66.5	7.58
YA-DUM-1	5-8.5	11/11/2013	SW, brown sand with no plasticity and medium density (10YR 4/2)	<2.84	14	7.63
YA-DUM-2	3.5-8.5	11/12/2013	Gray-brown, coarse grained sand, dry, no plasticity (10 YR 3/2)	<14.5	12.8	6.49
YA-DUM-3	3.5-8.5	11/12/2013	Very dark brown, SP, dry, coarse grained sand with no plasticity and medium density (10YR 4/2)	<2.82	44.6	7.69
YA-DUM-4	8.5-13.5	11/13/2013	Very dark brown, SP, dry coarse grained sand with no plasticity (10YR 3/2)	<2.72	19.6	7.69

Sample Location	Depth (feet)	Date	Comment	Analyte		pH
				Arsenic	Lead	
			Industrial RSL (mg/kg)	2.4	800	NS
Hazardous Material Limit (mg/L) ¹	5	5	<2.0 : >12.6			
YA-FAL-1	0-3.5	11/14/2013	Brown, SP, dry, gravelly medium grained sand, non-plastic (10YR 4/3)	<2.88	20	6.73
YA-FAL-2	3.5-8.5	11/14/2013	Dark gray, dry, medium density, non-plastic (10YR 4/1)	<14.6	17.5	6.87
YA-LAW-02	13.5-18.5	11/5/2013	Brown, sandy silty clay, medium plasticity, medium density, low moisture, round gravel (10YR 4/3)	4.48	132	7.44
YA-LAW-03	3.5-8.5	11/6/2013	Brown, sand, no plasticity, low density, no moisture (10YR 4/3)	0.546	38.9	8.08
YA-LAW-04	1-3.5	11/6/2013	Dark grayish brown, sand and round gravel, no plasticity, low density, dry (10YR 4/2)	1.3	43.7	7.89
YA-LAW-05	5-8.5	11/12/2013	SP, brown sand with no plasticity and medium density (10YR 3/1)	<2.70	22.6	7.3
YA-WB-1	3.5-8.5	11/13/2013	Very dark gray, SP, dry medium and coarse grained sands with no plasticity and medium density (10YR 3/1)	<3.05	91.8	7.16
YA-WB-2	3.5-8.5	10/28/2013	Dark grayish brown gravelly sand, water at 13 feet (10YR 4/2)	<3.12	12.1	7.89
YA-WB-3	0-3.5	10/29/2013	Very dark grayish brown, SP/GP, slightly clayey medium plasticity and density (10YR 4/3)	3.20	132	7.63

Notes:

RSLs - Regional Screening Level Summary Table, United States Environmental Protection Agency, May 2013.

¹ - EPA Toxicity Characteristic Maximum Concentration, after analysis by the Toxicity Characteristic Leachate Procedure.

² - Concentration, in mg/L, when analyzed by toxicity characteristic leaching procedure (TCLP)

mg/kg - milligrams per kilogram

mg/L - milligrams per Liter

NA - Not analyzed

NS - No Standard

< - Indicates concentrations below laboratory reporting limits

Bold - Indicates concentration exceeds industrial RSL

Visual evaluation of the material encountered during drilling activities indicates that the subgrade at the locations where significant excavation will be completed (near the SH-103 bridge structure over I-70, at the East Idaho Springs interchange, and retaining walls where sampled), is composed of processed blast rock derived from local metamorphic and igneous rock sources upslope of I-70, likely placed when I-70 was initially constructed.

However, suspected mine waste was observed at one location (YA-S-1). Elevated lead concentrations were detected in samples from YA-S-1 (29,000 mg/kg and 37,000 mg/kg, respectively); due to the high concentrations, the samples were also analyzed by TCLP. The concentrations of lead exceeded the TCLP threshold; therefore, the suspected mine waste in the area of YA-S-1 is characterized as hazardous waste.

3.3.3.2 Groundwater Sample Results

Pinyon collected one groundwater sample, YA-B-5, on September 26, 2013, near the SH-103 bridge structure, and from YA-B-1 on February 18, 2014 near the East Idaho Springs Interchange.

Analytes detected within the groundwater samples were compared to the CDPHE – Water Quality Control Commission’s Regulation 38. Based on the Site location, surface water discharges to Segment 2C of Clear Creek, and the first hierarchical regulation is Regulation 38 for inorganic constituents (metals) (CDPHE, 2011c), followed by Regulation 31 (CDPHE, 2011d). Using CDPHE protocols, only chronic standards were examined during this investigation (Table 3-5).

If no value was listed for a given metal, table value standards (TVS) from Regulations 31, and 38 for chronic aquatic life impacts, were used. For example, Segment 2C has a numeric limitation for arsenic, whereas other metals such as cadmium and lead have a TVS from Regulations 31 and 38. If no numeric value from Regulation 38, or chronic TVS from Regulations 31 and 38, are given for a specific constituent, then the standard for the most protective use applies. For this segment of Clear Creek the most protective use is for domestic water supply, and those standards were used for comparison. Finally, many of the Regulation 31 and 38 TVS are based on a mathematical formula with the current stream hardness as the variable. CDPHE has provided an average year-round hardness value for this segment of Clear Creek of 75 milligrams per liter (mg/L) (CDPHE, 2008), which was utilized as the variable. It should be noted that the samples collected during this investigation were done so using the EPA solid waste methodologies, and may not correlate well to the surface water standards due to the preservation techniques, which differ from the Clean Water Act methodologies. However, the methodology used in this investigation is applicable for comparison to the Colorado Ground Water Standards.

Near the SH-103 bridge, arsenic, mercury, and selenium concentrations were below the laboratory detection limit; however, those limits exceed the appropriate CDPHE surface water standard for Segment 2C of Clear Creek. Cadmium, lead, and silver were all detected at concentrations exceeding the appropriate surface water standard (Table 3-5). Cadmium concentrations exceeded the groundwater standards (Table 3-5).

Near the East Idaho Springs interchange, several metals were detected at concentrations that exceeded both the surface water and groundwater standards (Table 3-5).

The samples were also analyzed for volatile organic compounds (VOCs). With the exception of chloroform, all concentrations were below the laboratory detection limits or the surface water and groundwater standards (Table 3-5). The detection of chloroform is most likely attributed to a leaking water line(s) which led to an influx of potable drinking water into the groundwater system. It is believed that other chemicals detected at the East Idaho Springs Interchange may have been introduced during drilling activities as they were not indicative of nearby land uses.

Table 3-5 Groundwater Sample Results

Analytes	Sample YA-B-5		Sample YA-B-I		Ground Water Standard (µg/l)	Surface Water Potential Permit Limit (µg/l) Hierarchal Limits from Left to Right					
	Near SH-103 Bridge Structure; collected 9/26/13		Near East Idaho Springs Interchange, collected March 18, 2014			Reg 38 Numeric (Chronic)	Reg 38 Numeric (Acute)	Chronic TVS (Reg 31 & 38)	Acute TVS (Reg 31 & 38)	water+fish (Reg 31)	DWS (Reg 31)
	Dissolved (SW846) (µg/L)	Notes	Dissolved (SW846) (µg/L)	Notes							
Metals											
Arsenic	<5.00	U	23.3	J	10	0.02	340.00			0.02	0.02
Barium	63.7		798		2000						1,000
Cadmium	35.6		7.0		5			0.34	2.13		5
Total Chromium	6.92		105		100		50.00	58.56	450.17		50
Lead	7.10	J	139		50			1.84	47.15		50
Mercury	<0.067	U	<0.2		2	0.01					2
Selenium	<6.00	U	6.8	J	50			4.60	18.40	170	50
Silver	2.39	J	<5.0	U	50			0.20	1.24		100
Volatile Organic Compounds (detected)											
2-Butanone	<5.0		17.0		NS						NS
Acetone	<8.0		78		6,300						NS
Benzene	<1.0		1.6		5.0					2.2	5.0
Chloroform	3.94		<1.0		3.5					3.4	NS
Chloromethane	<1.0		2.6		NS						NS
Styrene	<1.0		3.4		100						100

Notes:

Hardness-Dependent Value for River Segment = 75 mg/L provided by CDPHE

- Permit Limit highlighted in green
- Value potentially exceeds discharge permit limit
- Indicates the laboratory reporting and minimum detection limits are higher than the potential permit limit for this metal

NS – No standard

TVS = table value standard

DWS - domestic water supply limit

< = indicates a result less than the reporting limit

J = Indicates a result greater than the method detection limit but less than the reporting limit

B = Indicates metal detected in method blank

U = Indicates a result lower than reporting limit and method detection limit

µg/l - micrograms per liter

Formulas for TVS Values and Other Notes:

Metals	Formulas for TVS Values/Other Notes
Aluminum	Acute = $e(1.3695[\ln(\text{hardness})+1.8308])$ (applies to total recoverable results) Chronic = $e(1.3695[\ln(\text{hardness})-0.1158])$
Antimony	
Arsenic	
Barium	Note that only acute Ba level given is DWS
Cadmium	Acute TVS = $(1.136672-[\ln(\text{hardness}) \times (0.041838)]) * e(0.9151[\ln(\text{hardness})]-3.1485)$ Chronic TVS = $(1.101672-[\ln(\text{hardness}) \times (0.041838)]) * e(0.7998[\ln(\text{hardness})]-4.4451)$
Copper	Acute TVS = $e(0.9422[\ln(\text{hardness})]-1.7408)$ Chronic TVS = $e(0.8545[\ln(\text{hardness})]-1.7428)$ Numeric standard from Reg 38 (chronic)=17
Lead	Acute TVS = $(1.46203-[\ln(\text{hardness})*(0.145712)]) * e(1.273[\ln(\text{hardness})]-1.46)$ Chronic TVS = $(1.46203-[\ln(\text{hardness})*(0.145712)]) * e(1.273[\ln(\text{hardness})]-4.705)$
Mercury	Total Recoverable
Selenium	
Silver	Acute TVS = $\frac{1}{2} e(1.72[\ln(\text{hardness})]-6.52)$ Chronic TVS = $e(1.72[\ln(\text{hardness})]-9.06)$ Trout TVS = $(1.72[\ln(\text{hardness})]-10.51)$ (This value used instead of chronic as it is more conservative) Standard is lower than laboratory minimum detection limit and reporting limit

3.4 Site History

The following resources were used in developing the Site history (Table 3-6):

- Aerial photographs from selected years between 1951 and 2011;
- Historical USGS topographic maps, from selected years between 1905 and 2013;
- Sanborn fire insurance maps from selected years between 1907 and 1931;
- Site reconnaissance conducted on September 24, 2013;
- Tax assessor information, provided by the Clear Creek County Assessor’s Office;
- Zoning records from Clear Creek County;
- Interviews; and
- Agency file review.

A complete list of references is included as Section 6.0.

Table 3-6 Summary of Site History

From	To	Site Use
Prior to 1859	1912	Gold was discovered in 1859 in Idaho Springs, after which the majority of the Clear Creek floodplain was dredged for gold, likely including portions of the Site near Clear Creek (EPA, 1991). An unimproved-road has been developed on the Site, west of Idaho Springs since at least 1905. A light-duty road has been developed at the same location as the current SH-103 bridge structure since 1905. It appears that there is a bridge associated with the light-duty road at the current SH-103 bridge structure; however, it is not possible to determine if there was a bridge because of the scale of the map (<i>topographic maps and Sanborn maps</i>).
1912	1960	The stretch of road between Idaho Springs and Empire Junction has been developed with a highway or a road with a median strip since at least 1942 (<i>topographic maps, aerial photographs, and Sanborn maps</i>).

From	To	Site Use
1960	Present	<p>Since at least 1960, I-70 has been listed as a primary highway. Prior to that it was listed as a secondary highway. The SH-103 bridge has been developed since at least 1967 and the configuration of the road through Idaho Springs is consistent with the current I-70 configuration (<i>topographic maps and aerial photographs</i>).</p> <p>During the construction of I-70, Clear Creek was moved to the south between Chicago Creek on the east and the Big Five mine tunnel on the west (<i>topographic maps and aerial photographs</i>).</p>

3.5 Questions Regarding Past Environmental Practices

Past environmental practices at the Site, as identified during the course of this Modified ESA report, were also reviewed (Table 3-7).

Table 3-7 Summary of Past Environmental Practices

<i>Environmental Practice</i>	Identified (Yes or No)	Section for Additional Information
<p>Past Spills/Releases Is the Site listed on an agency listing for a reported or suspected release or spill or petroleum products, hazardous wastes, or hazardous substances?</p>	Yes	3.5.1
<p>Past Environmental Studies Has an environmental assessment previously been conducted at the Site?</p>	Yes	4.2
<p>Environmental Liens/Actions Are there any pending, threatened or past litigation relevant to environmental issues at the Site?</p>	No	--
<p>Are there any pending, threatened or past administrative proceedings relevant to environmental issues at the Site?</p>	No	--
<p>Are there any notices from any governmental entity regarding any possible violation of environmental laws at the Site?</p>	No	--

3.5.1 Past Spills/Releases

Fifteen spill incidents were reported in the GeoSearch database as having occurred on I-70 (Appendix A). Review of the listings did not provide exact locations where these incidents occurred, with location descriptions based on approximate mile markers. Materials released included diesel fuel and gasoline, and were generally in relatively small quantities of less than 60 gallons. The Colorado State Patrol (CSP) is responsible for cleanup of spills that occur on Colorado highways. No indication of investigation or cleanup beyond initial report of release and response actions was identified in the environmental database.

3.6 Interviews

In completing this Modified ESA, Pinyon contacted agencies and individuals who may have knowledge about the Site (Table 3-8). Pertinent information regarding the interviews conducted can be found in Sections 3.6.1.

Table 3-8 Summary of Persons and Agencies Contacted

Agency/Affiliation	Contact Name Phone/Email/Website	Date Contacted	Summary of Interview
Municipal Water/Sewer Provider			
N/A	N/A	N/A	N/A
Electrical/Natural Gas Provider			
Xcel Energy	www.xcelenergy.com	800.895.4999	NA
Agencies			
Clear Creek Assessor	www.co.clear-creek.co.us/depts/assess.htm 303.679.2322	September 23, 2013	Reviewed information online.
Clear Creek County	Alexis Ehrgott 303.670.7531	September 24, 2013	Reviewed historical mining documents and maps.
Colorado Department of Labor and Environment – Division of Oil and Public Safety	http://Costis.cdle.state.co.us	September 17, 2013	Reviewed regulatory documents for adjacent and surrounding properties included within the GeoSearch database.

Agency/Affiliation	Contact Name Phone/Email/Website	Date Contacted	Summary of Interview
CDPHE	Steve Laudeman 303.692.3381	October 17, 2013	Site visit to review project elements and overview of known milling sites.

Notes:

NA *Not applicable*

NC *Not contacted*

4. Adjacent and Nearby Properties

4.1 General Off-Site Description

Zoning:

The adjacent properties in vicinity of the Site are generally zoned for mining. The areas around Idaho Springs are zoned for residential and commercial uses. Along with being zoned for mining, the areas around Downieville, Lawson, and Dumont are also zoned for residential and commercial uses.

Adjacent Site Use:

The PPSL improvements will be on the eastbound lanes of I-70. Throughout this project area, the north adjacent use is the west-bound I-70 lanes and the south adjacent use is generally Clear Creek, except for the eastern portion of Idaho Springs where there is a bend in the creek and it flows to the north of I-70. The following site uses are for the properties in the general vicinity of the project area.

Between Mile Post 238 and 241:

Lands adjacent to the Site in this area include residences, commercial developments, a grocery store, automotive fueling stations (Amoco Oil and Miner Street Shell), and former mine/mill sites (Alma Lincoln, Mayflower, Hukill, Big Five Mine Waste and Drainage, Sunshine, Lyons/Dixie, and Silver Spruce).

Between Mile Post 235 and 238:

This area is generally undeveloped forested lands, residential and commercial development, mine/mill sites (Snider, Sprech/McClelland, General Herkimer, Dover Mill, Donaldson Mill, Hoosac Mill, and the Stanley Smelter Complex), and Superfund listed Operable Units (McClelland Mine Waste and Drainage and Rockford Mine Drainage).

Between Mile Post 232 and 235

This area is generally undeveloped forested lands, residential and commercial development, mine/mill sites (Woolcott Placer, Junction Placer, Red Elephant, and Blue Ridge).

General Regional Property Use:

Except for the city of Idaho Springs and the towns of Dumont, Lawson, and Downieville, land use in the vicinity of the project is vacant, and constrained by rugged forested and mountainous lands. Development is generally comprised of residential and commercial properties that are located near I-70 and/or Clear Creek.

4.2 Sensitive Environmental Off-Site Uses (Current and Historic)

A total of 43 facilities were identified in the agency database search (Table 4-1; Appendix A); several of these facilities were identified with multiple database listings (GeoSearch, 2013). Sites identified in the agency database were categorized as either having a low or high potential to impact the study area. A summary of the facilities identified in the agency database is presented in Appendix A.

Table 4-1 Summary of Agency Database Search

Type of Database	Number of Listings in a Specified Search Radius (mile)			
	<1/8	1/8-1/4	1/4 -1/2	1/2 - 1
National Priority List (NPL)	1	0	0	0
RCRA Corrective Action (RCRAC)	0	0	0	0
Tribal Lands	0	0	0	0
RCRA Permitted Treatment, Storage, and Disposal (RCRAT)	0	0	0	
RCRA Do Not Presently Generate (NonGen)	7			
RCRA No Longer Regulated (NLR)	1			
National CERCLIS	0	0	1	
National CERCLIS-NFRAP	0	0	1	
State Spills	20			
State VCP	0	0	1	
Solid Waste Landfills	2	0	0	
Leaking Underground Storage Tanks (LUST)	15	1	0	
Registered UST/AST	22	27		
Federal IC/EC	0	0		
Federal ERNS	6			
RCRA Generators	2			
Hazardous Waste Sites – Corrective Action (HWSCA)	0	0	0	0
Federal Brownfield	0	0	0	

Notes:

The grey boxes indicate that this distance is not required to meet the minimum ASTM-required distance.

See Appendix A for complete report and maps identifying facilities summarized above, including a description of each database reviewed.

During the off-Site reconnaissance and review of the GeoSearch database report (Appendix A), regulatory agency files and historical information, or a combination thereof, six establishments with the potential to impact the Site were identified (Table 4-2).

Table 4-2 Sensitive Environmental Off-Site Uses

From	To	Address/Distance	Use
1983	Present	Located within the Site vicinity.	Central City, Clear Creek (1)
2006	Present	South of Minor Street - located approximately 150 feet to the north of the Site.	Soda Creek - (10)
2010	Present	1039/1041 - 1041A County Road 308 – approximately 200 feet to the north of the Site	Downieville Fuel Stop/REXOCO #35 – fueling station (13)
2009	Present	1359 Miner Street – located approximately 300 feet to the north of the Site.	Kum & Go #975 – fueling station (21)
1992	Present	1319 Miner Street – located approximately 300 feet to the north of the Site	Amoco #5329 – fueling station (21)
1996	Present	1856 Colorado Boulevard – located approximately 500 feet to the north of the Site.	Get Gassed – fueling station (33)

- I. Central City/Clear Creek Superfund Site (GeoSearch database number 1) – Gold was discovered in Idaho Springs in 1859, and hard rock and placer mining was a leading industry in the vicinity until the 1950s. Over 800 inactive mines and tunnels are located in Clear Creek and Gilpin counties (EPA, 1991). Initially, placer mining was conducted; however, deposits were quickly depleted. Mining activities then focused on hard rock sulfide ores through deep mines. Flooding problems required that the mines be drained through drainage shafts, many of which continue to drain water heavily contaminated with metals, and discharge into surface-water bodies. The Central City/Clear Creek Superfund site was added to the National Priorities List (NPL) in 1983. This listing includes multiple waste piles, tailing impoundments, milling sites and draining mine adits within a 400-square mile area in the Clear Creek watershed. Mining and ore processing left a legacy of contamination of soil, surface water and groundwater in many areas in Clear Creek and Gilpin counties. Most significant is the impact to Clear Creek and its tributaries, which serve as a major drinking water source for the Denver area. The most significant contaminants are metals, in particular, lead, arsenic and cadmium (EPA, 1991).

The boundary of this Superfund site is not precisely defined due to the nature of the site, but generally includes the approximately 400 square miles of the Clear Creek watershed west of Golden. Mining activities occurred at many locations across a broad area, leading to a wide distribution of mine waste, where many discrete locations contain small amounts of waste. In order to address concerns with different discrete facilities, the EPA organized work into separate operational units (OUs). OU 1 was designated to address acid mine drainage from five mine tunnels utilizing passive treatment. OU 2 was designated to address remediation of mill tailings and mine waste rock associated with the five discharging tunnels in OU 1. OU 3 was designated to conduct a more comprehensive evaluation of the Clear Creek watershed including active treatment of two of the five OU 1 mine discharges. OU 4 focuses on sources of metals contamination to the North Fork of Clear Creek, a major tributary to Clear Creek. The remedial actions

address contaminated surface water, ground water and sediment. Several sites located within the project area are included in the OUs (CDPHE, 2009):

- *McClelland Waste Pile/Mine Adit Discharge* – The waste pile is included in OU 3 and is located between mile posts 235 and 236 approximately 250 feet south of the Site, south of Clear Creek. This pile has been partially remediated with the mill tailings excavated from Clear Creek and capped; however, drainage is not designated as an OU (PEIS, 2011). The mine adit discharge is also included in OU 3, but no remedial action has been taken (CDPHE, 2009). The CDPHE five-year review report indicated that in-stream concentrations of copper have been noted to increase in Clear Creek. The increase is due, in part, to contributions from mining-impacted tributaries and small inflows from the McClelland Mine.
- *Rockford Mine Adit Discharge* – This mine is located near mile post 237, approximately 200 feet south of the project area. This mine adit is listed under the OU 3, but no abatement action has been taken and the drainage continues to flow into Clear Creek (CDPHE, 2009). The CDPHE five-year review report indicated that in-stream concentrations of copper have been noted to increase in Clear Creek. The increase is due, in part, to contributions from mining-impacted tributaries and small inflows from the Rockford Mine.
- *Argo Waste Pile/Tunnel* – The Argo Waste Pile and Tunnel are both located in Idaho Springs approximately 750 feet north of the Site. This drainage site used to dump approximately 740 pounds of metals into Clear Creek per day (Fliniau and Norbeck, 1997). The tunnel was constructed between 1893 and 1910 to drain water from deep mines along its route from Central City to Idaho Springs. The tunnel serviced gold rich mines in Virginia Canyon, Gilpin Gulch, Quartz Hill, Nevadaville, and Central City. The waste pile is included in OU2 and remediation activities include re-grading of the waste pile to remove its toe from Clear Creek along with capping and constructing a retaining wall along a portion of the waste pile toe. The tunnel drainage is the largest source of metal contamination to Clear Creek. The Argo Tunnel is included in OUI and a 700 gallon-per-minute water treatment facility began operation in 1998. The treatment facility prevents approximately 1,200 pounds of metals from entering Clear Creek each day (PEIS, 2011).
- *Big Five Waste Pile/Tunnel* – The Big Five Waste Pile and Tunnel are located on the western end of Idaho Springs between mile marker 238 and 239 approximately 350 feet north of the Site. Mine dumps on both sides of Clear Creek have been excavated from the creek and capped (PEIS, 2011). The waste pile is included in OU2 and has been capped and a retaining wall has been constructed. The tunnel is included in OUI and water from this drainage is piped and discharged to the Argo water treatment plant. The USDA maps indicate that surficial soils in this area are potentially derived from mine-related waste (Figure 4).
- The majority of I-70 has been constructed on embankment fill, which was confirmed during geotechnical investigations completed by Yeh in support of this CDOT project. Geotechnical investigations have been completed in support of this CDOT project, which included drilling of numerous vertical soil borings in locations where structural elements are anticipated (e.g., retaining walls and new bridge abutments). During those drilling activities, Pinyon personnel collected representative soil samples of fill material to evaluate potential environmental conditions.

Based on the resources reviewed, the following summary is presented regarding potential mining activities near and within the Site:

- Information collected from the Division of Reclamation Mining and Safety (DRMS) indicates several mine permits in the vicinity; however, there is no information that mining actually occurred at the locations noted in that database (DRMS, 2013).
 - Thirty-eight mill sites have been identified in the vicinity of the Site, including 13 known operational mills as of June 2003 (PEIS, 2011 and Slagel, 2003). The sites are shown on Figures 2 through 4.
 - Four Superfund remediation sites are located within the Site vicinity (Figures 2 through 4).
 - It is possible that mine wastes have been utilized as roadway embankment beneath I-70, as well as nearby off-Site areas. Mapping information from the USDA indicates that at least two large areas beneath the Site may include mine waste (USDA, 2013).
2. Soda Creek, South of Miner Street, (GeoSearch database number 10) – According to the database, an unknown material of unknown quantity was released into the Soda Creek, located approximately 150 feet to the north of the Site. According to the database, the release is listed as an impacted water.
 3. Downieville Fuel Stop/REXOCO #35, 1039/1041 - 1041A County Road 308 (GeoSearch database number 13) – A fueling station is currently located at 1039/1041 - 1041A County Road 308, approximately 200 feet to the north and hydraulically upgradient of the Site.

According to the database, an unknown quantity of unleaded gasoline was released from a flexible connector at the Downieville Fuel Stop on July 30, 2010. Elevated benzene concentrations have been detected above the Risk Based Screening Level and free phase hydrocarbons were observed above the Risk Based Screening Levels in groundwater monitoring wells installed on the property. Quarterly groundwater monitoring has been taking place at the property since October of 2012; however, no active remediation is currently underway.

4. Kum & Go #975, 1359 Miner Street, Idaho Springs (GeoSearch database number 21) – A fueling station is currently located at 1359 Miner Street, approximately 300 feet to the north and hydraulically upgradient of the Site.

According to the database report, stained soil was discovered during previous construction activities. Soil samples were collected and all samples were below the Risk Based Screening Levels. The Division of Oil and Public Safety issued a No Further Action letter on November 17, 2009. There are currently three petroleum underground storage tanks (USTs) at the facility; however, no releases or violations have been reported other than the stained soil.

5. Amoco #5329, 1319 Miner Street, Idaho Springs (GeoSearch database number 21) – A fueling station is currently located at 1319 Miner Street, approximately 300 feet to the north and hydraulically upgradient of the Site.

According to the database report, in 1992 100 cubic yards of petroleum impacted soil was removed, along with USTs and associated fuel distribution system. Elevated levels of benzene, toluene, ethyl-benzene, and xylenes, were detected; however, an approved corrective action plan suggested quarterly monitoring and to allow biological degradation and natural attenuation to continue. Quarterly groundwater sampling was conducted until the Division of Oil and Public Safety issued a No Further Action letter on July 22, 1996.

4. Get Gassed, 1856 Colorado Boulevard, (GeoSearch database number 33) – A fueling station is currently located at 1856 Colorado Boulevard, approximately 500 feet to the north and hydraulically down-gradient of the Site.

According to the database, the two leaking underground storage tanks (LST) events have received No Further Action letters from the Colorado Department of Health (presently known as the CDPHE). Additionally, approximately 300 gallons of gasoline was released into the soil from a bad connection between the pump and piping, which was reported as a spill. No other information was available from the database.

5. Conclusions

5.1 Findings

Based on the information obtained and reviewed, the following RECs were identified:

RECs

Yes

- *Adjacent Automotive Fueling Station:* An unknown quantity of unleaded gasoline was released from a flexible connector at the Downieville Fuel Stop, located at 1039 County Road 308 in Downieville. This property is approximately 200 feet to the north of the Site and is hydraulically upgradient. Further, this property is located approximately 1,200 feet upgradient of the Dumont on-ramp retaining wall where intensive excavation is anticipated. Elevated benzene concentrations and free phase hydrocarbons were observed in groundwater monitoring wells on the property. Quarterly groundwater monitoring has been conducted at the property since October of 2012; however, no active remediation is currently underway. Based on the presence of free phase hydrocarbons and the lack of monitoring activities, this finding is considered to be a REC.
- *Previous Mining and Milling Operations:* Mining and milling activities occurred in the Site vicinity from approximately 1859 to the 1980s. It is possible that mine-related wastes are located beneath the on-Site ROW, which could be encountered during construction activities at the Site. It is likely that mine waste, if encountered, would be difficult to distinguish as it would likely have been mixed with “clean” embankment material beneath the ROW. If this is the case, chemical concentrations would be significantly diluted by those historic processes. Several RCRA 8 metals (including arsenic and lead) were detected at levels which exceeded the RSLs for industrial soils (Figures 2, 3, and 4). Lead was detected in samples from YA-S-1 at concentrations that would make the soil a hazardous waste (Figure 3). Further, metals have been detected in the on-Site groundwater at levels which exceed the appropriate surface water standard for Segment 2C of Clear Creek. Metals concentrations also exceed the applicable groundwater standards at the East Idaho Springs Interchange. Additionally, chloroform was detected as exceeding the groundwater standard. Based on this information, this previous mining and milling operations that have occurred in the project vicinity is considered to be a REC.

Controlled RECs

None.

Historic RECs

None.

De Minimis Conditions

None.

5.2 Opinion

The classification of items as RECs was made using the definition of a REC. There is indication of an existing or material threat of release at the Site.

Based on dates of mining operations in the project vicinity, the lack of environmental regulations during those times, and the limited availability of data regarding the disposition of mine-related wastes for the time period

in question, there is a possibility that mine wastes are located in the project area, including Site soils and groundwater, and could be encountered during construction activities.

The magnitude of the project impact from a REC is dependent on different factors, including: the distance between a potential source of a regulated material and the project; status of regulated facilities (e.g., active or inactive); known or suspected releases into soil, surface water or groundwater; the hydrogeologic relationship of the source of a regulated material to the project; and the depth and/or duration of construction. These factors have been considered in this MESA as part of the evaluation of whether a REC has the potential to impact the project. Facilities were categorized as either having a low or high potential to impact the study area. The following describes the categories:

Low Potential: Facilities that fit this criteria include:

- Facilities with minimal indications of an existing release, past release, or material threat of a release of regulated materials into the ground (soil), groundwater, or surface water that could impact the study area.
- Facilities located hydraulically down-gradient of the study area.
- Those facilities where contamination has impacted the study area; however, there is a low potential for known or suspected contamination to be exposed during construction of the project.

High Potential: Facilities that fit this criteria include:

- Facilities with indications of an existing release, past release, or material threat of a release of any regulated materials into the ground (soil), groundwater, or surface water, and the possibility of migration from the contaminant source into the study area.
- Those same facilities that have caused a migration of the contaminants into the study area, and where construction would likely result in exposure of media impacted by those contaminants (e.g., soil, soil vapor, groundwater).

Pinyon has utilized these criteria to develop an opinion as to the magnitude of impact to the project:

Adjacent Automotive Fueling Station: It is unlikely that the facility has impacted soil that would be disturbed during construction, and groundwater is not likely to be encountered during construction in the vicinity of this facility. Although this facility qualifies as a REC based on the definition of a REC, the potential for it to impact construction of the project is considered **low**.

Previous Mining and Milling Operations: Mine-impacted soils and groundwater have been identified during field sampling activities, and there is a possibility that mine waste could be encountered in other locations throughout the project area. Further, the potential to encounter mine wastes increases where intensive excavation would occur (e.g., retaining walls or bridge abutments). The potential for mine wastes to impact this project is considered **high**.

5.3 Additional Investigation

No additional investigation is recommended at this time.

5.4 Data Gaps

The ASTM Standard requires that Site use be documented to 1940, or first use, whichever is earlier. Pinyon has been able to verify the Site use since 1890, but could not document the start date of land use. Not all of the standard historical resources were used. In Pinyon's experience, the following are not reasonably attainable, or would not be available, for this Site, and were therefore not consulted:

- The Site was not developed for the time period in question; therefore, building department records were not reviewed;
- Recorded land title records – were not available due to the Site being publicly-owned ROW and easement areas with no associated parcel numbers; and
- Local street directories.

Pinyon concludes data failure has occurred, a form of data gap. This is not considered a significant data gap.

The ASTM Standard requires that interviews (e.g., Site property owners/occupants, previous property owners, adjacent property owners/occupants) be conducted to obtain information regarding hazardous materials utilized, stored or generated at the Site. Site property owners were not interviewed during this assessment and a user questionnaire was not completed. This data gap is considered significant to the findings in this report.

5.5 Conclusions

Pinyon has performed a Modified ESA in conformance with the scope and limitations of ASTM Practice E 1527 of the I-70 Peak Period Shoulder Lane along I-70 between Empire Junction to Idaho Springs (the "Site"). Any exceptions to, or deletions from, this practice are described in Section 7.1 of this report. This assessment has revealed evidence of recognized environmental conditions in connection with the Site.

5.6 Conclusions and Recommendations Regarding Additional Services

Based on the results of this assessment, the potential exists for hazardous materials and mine wastes to be encountered in areas with intensive excavation (e.g., retaining walls or bridge abutments), or where proposed construction and excavation areas approach the groundwater table (e.g., bridge piers). Activities related to this project will likely disturb the soil and/or groundwater; therefore, it is recommended that workers be made aware of these materials, and that those media be managed appropriately.

Dewatering activities could potentially be necessary during the installation of deep foundation systems for the new SH-103 bridge structure and the new east Idaho Springs Interchange bridge structure. Results indicate that concentrations in groundwater exceed surface water and groundwater standards. Therefore, the water would require either treatment to meet those standards prior to discharge, or off-site disposal. Pinyon understands that CDOT is currently negotiating a disposal option at the Argo Water Treatment Facility with the CDPHE; the results of that negotiation will be presented under separate cover (Materials Management Plan).

A Materials Management Plan should be prepared and implemented in order to specify management practices in these areas for contaminated soil or groundwater that may be encountered during construction. Pinyon is under contract to prepare a Materials Management Plan for the project, and has discussed the approach with CDOT and CDPHE.

Workers on this project must follow CDOT Specification 250 – Environmental, Health and Safety Management and the CDOT Asbestos-Contaminated Soil Management Standard Operating Procedure during excavation activities at this Site.

In the event that suspected ACM is encountered, including with buried utilities, workers must follow CDOT Specification 250.07 – Asbestos-Containing Material Management and CDOT Asbestos-Contaminated Soil Management Standard Operating Procedure. Additionally, depending on the type of ACM, this material must also be abated in accordance with either Section 5.5 of the Solid Waste Regulations, or Regulation No. 8 of the Air Quality Control Commission Regulations.

CDOT requires that all metal project components (e.g., light poles, metal railing, and bridge girders) be recycled. As these materials are recycled, and not disposed at a landfill, it is not necessary to evaluate the content of lead by TCLP, regardless of concentration. The recycling facility must be notified that metal project components contain lead, if applicable. Regardless of lead content, the future contractor must comply with Occupational Safety and Health Administration (OSHA) Regulation 1926.62 for worker safety.

6. References

Agency Contacts

Refer to Table 3-4.

Reports and Publications

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- Slagel, 2003. "Mill Sites in the I-70 Right of Way" Map provided by JoAnn Sorensen from Clear Creek County, Land Use Division, October 11, 2013.
- USDA, 2003. "Soil Survey of Georgetown Area, Colorado, Parts of Clear Creek, Gilpin, and Park Counties," United States Department of Agriculture, Soil Conservation Service, 2003.
- Walsh, 2013. "Pre-Demolition/Renovation Asbestos and Lead-Based Paint Inspection Report for the Colorado Department of Transportation Bridge Structure: F-14-E, Chicago Creek Road (N/S Bound) over I-70 (E/W Bound), Mile Marker 239.652," Prepared by Walsh Environmental Scientists and Engineers, LLC, November 15, 2013.
- Walsh, 2013. "Pre-Demolition/Renovation Asbestos and Lead-Based Paint Inspection Report for the Colorado Department of Transportation Bridge Structure: F-14-Y, I-70 Business Route (E/W Bound) over I-70 (E/W Bound), Mile Marker 241.125," Prepared by Walsh Environmental Scientists and Engineers, LLC, January 27, 2014.
- Yeh, 2005. "Preliminary Site Investigation, Interstate 70 Ramp Metering, Empire Junction, Downieville, Mt. Evans-SH 103 and Idaho Springs East, Clear Creek County, Colorado," prepared by Yeh and Associates, Inc., June 7, 2005.

Maps

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Sanborn Fire Insurance Maps

The following Sanborn Fire Insurance Maps of Idaho Springs, Colorado, were reviewed:
1890, 1895, 1900, 1907, 1931 and 1939

Aerial Photographs

Pinyon reviewed the following photographs from Clear Creek County

October 8, 1951, Frame 1-27
September 15, 1956, Frame ECB-8-166
October 11, 1957, Frame ECB-21-101
July 2, 1967, Frame BLM-C-4-4
October 3, 1974, Frame F16CN
1979, Frame 2-27
July 2, 1998, Frame Virginia Canyon Rd 3-1

The following aerials were reviewed on-line using Google Earth:

September 5, 1999;
December 30, 2002;
October 22, 2005;
March 30, 2008; and
October 7, 2012.

Databases

GeoSearch, 2013. "GeoSearch Environmental Information Database Search, I-70 PPSL Clear Creek County, dated September 12, 2013 (Appendix D)."

7. Limitations

This report was prepared by Pinyon Environmental, Inc., at the request of and for the sole benefit of HDR Engineering, Inc., or any entity controlling, controlled by, or under common control with HDR Engineering, Inc.. This report addresses certain physical characteristics of the Site with regards to the release or presence of hazardous materials. It is not intended to warrant or otherwise imply that the Site is or is not free from conditions, materials, or substances which could adversely impact the environment or pose a threat to public health and safety. The material in this report reflects the best judgment of Pinyon in light of the information that was readily available at the time of preparation.

This report is for the exclusive and present use of HDR Engineering, Inc., or any entity controlling, controlled by, or under common control with HDR Engineering, Inc., to assist with an environmental evaluation of the Site. In the event of any reuse or publication of any portion of this report, Pinyon Environmental, Inc., shall not be liable for any damages arising out of such reuse or publication. Any use a third party makes of this report, or any reliance on or decisions to be made on it, are the responsibility of such third party. Pinyon accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions taken based on this report.

The principles outlined in Section 4.5 of the ASTM Standard are an integral part of this practice and are intended to be referred to in resolving any ambiguity or exercising such discretion as is accorded the user or environmental professional in performing an environmental site assessment or in judging whether a user or environmental professional has conducted appropriate inquiry or has otherwise conducted an adequate environmental site assessment.

Under ASTM Standard, this report is presumed to be valid for 180 days from the date of completion. For more information on the continued viability of this document, refer to the ASTM Standard, Section 4.6.

This report does not address additional requirements that must be met in order to qualify for the landowner liability protections (LLPs) (for example, the continuing obligation not to impede the integrity and effectiveness of activity and use limitations (AULs), or the duty to take reasonable steps to prevent releases, or the duty to comply with legally required release reporting obligations). Additionally, the report user has responsibilities with respect to All Appropriate Inquiry and LLPs.

7.1 Deletions and Deviations from Standard

This report was not completed to the requirements of the ASTM standard. The following deviations are presented:

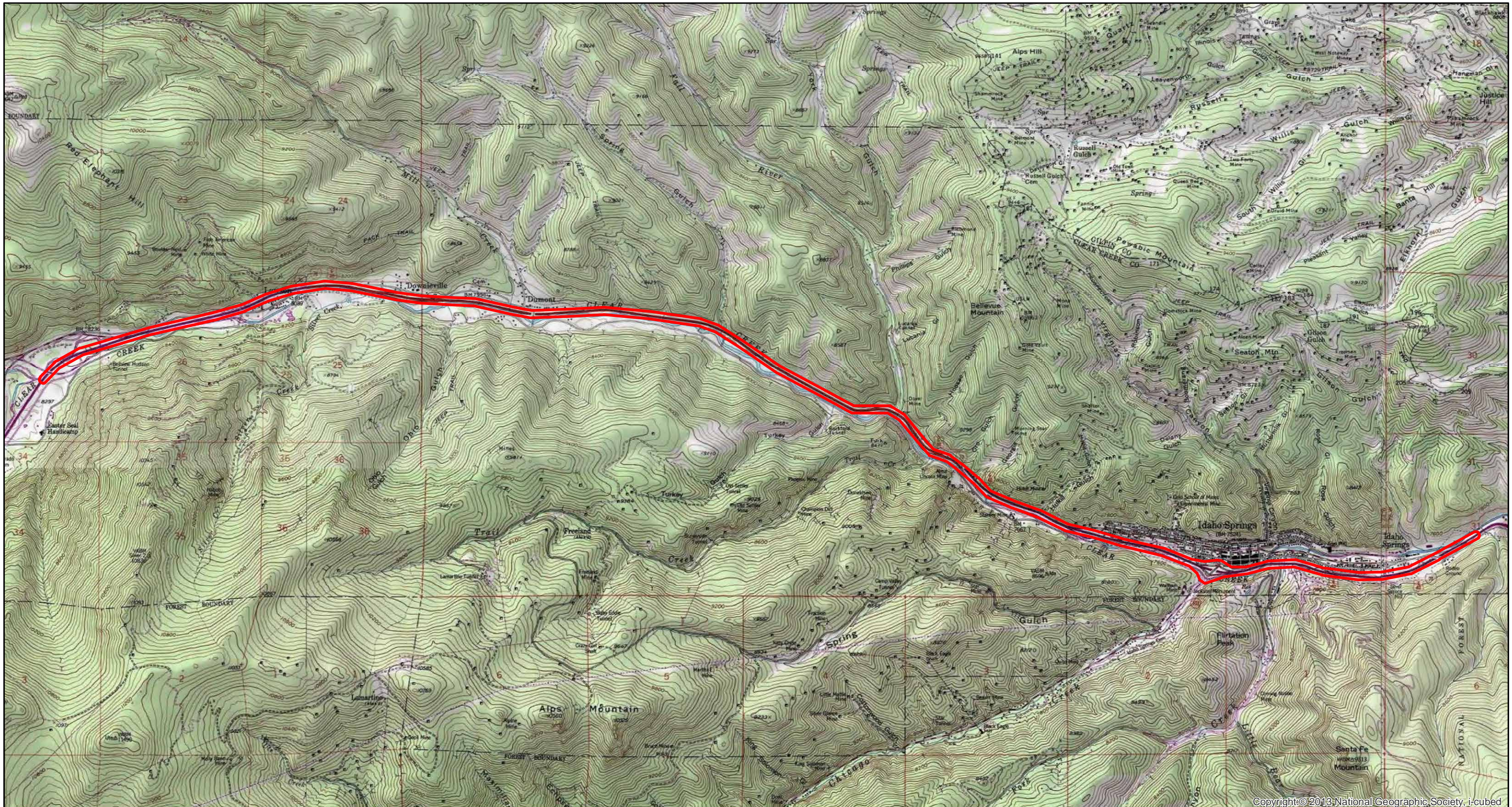
- Owners of properties that may be acquired were not interviewed in support of this Modified ESA, and a User Questionnaire was not provided. Additionally, the local health department was not contacted.
- Any data failures encountered are discussed in Section 3.4; any data gaps are outlined in Section 5.4.

7.2 Additions to Standard

There were no additional services added to the ASTM Standard with the exception of the following:

- A limited Phase II ESA was completed concurrently with this Modified ESA (Section 3.3.2).


Figures



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Legend

 Project Boundary

0 1,500 3,000
 Feet
 1 inch = 3,000 feet



Project Area
 I-70 Peak Period Shoulder Lane
 Empire Junction to Idaho Springs
 Clear Creek County, Colorado

Site Location: Clear Creek County, Colorado

Document Path: Z:\PROJECTS\2013\11319101 I-70 US 40 at Empire Junction\Hazardous Materials\Figures\MXD\I70_Mines_USGS_V1.mxd

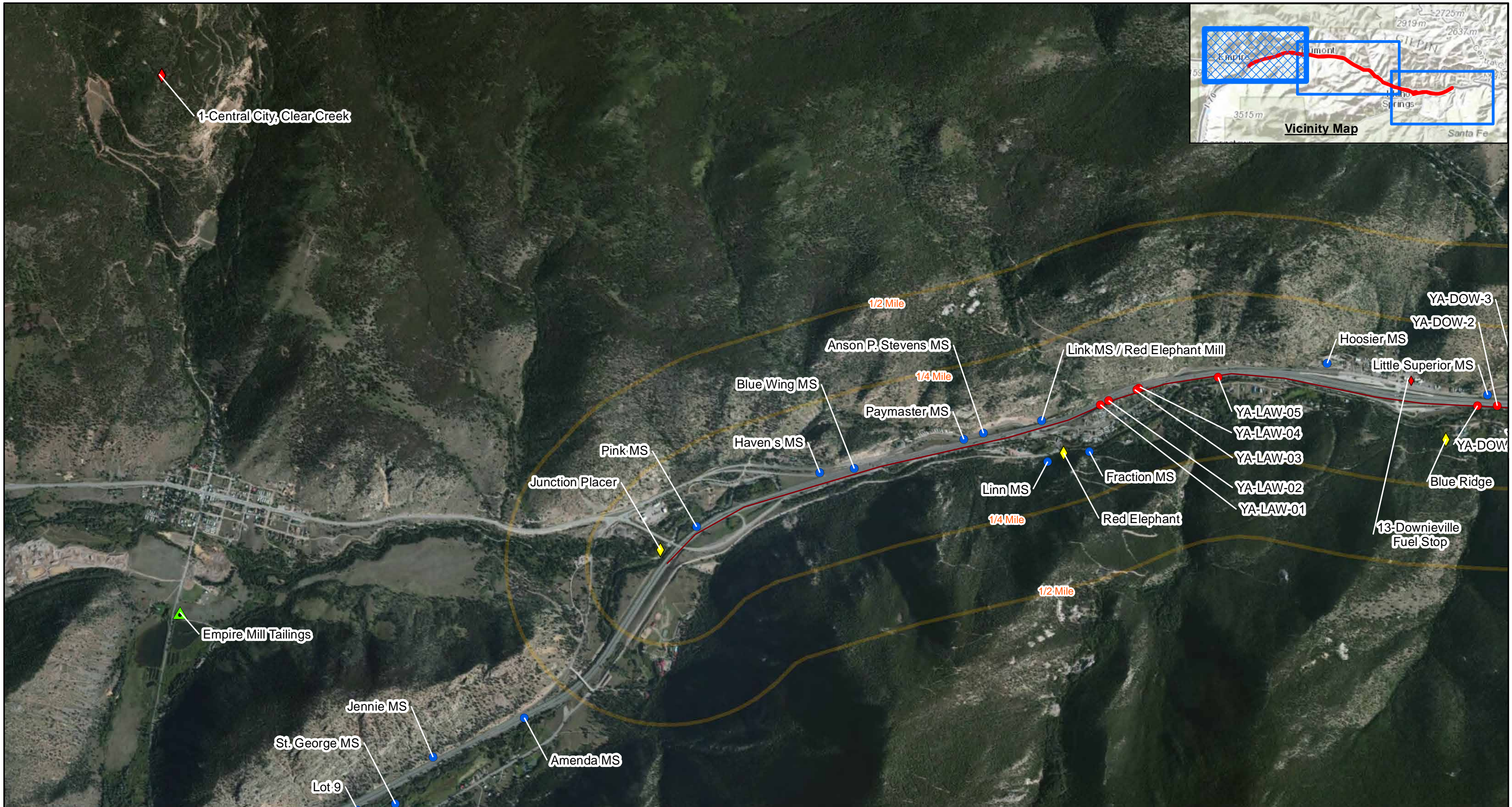
Job No. 1/13-191-01.8001

Drawn By: MF

Reviewed By: TG

Figure 1

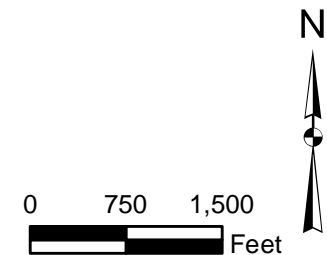
Revision: 12/17/2013



Sources:
 1) I-70 Mountain Corridor PEIS Regulated Materials and Historic Mining Technical Report, August 2010, Reissued March 2011.
 2) Five-Year Review Report, Fourth Five-Year Review Report for Central City/Clear Creek Superfund Site Gilpin and Clear Creek Counties, Colorado, September 2009 by Colorado Department of Public Health and Environment Hazardous Materials and Waste Management Division.

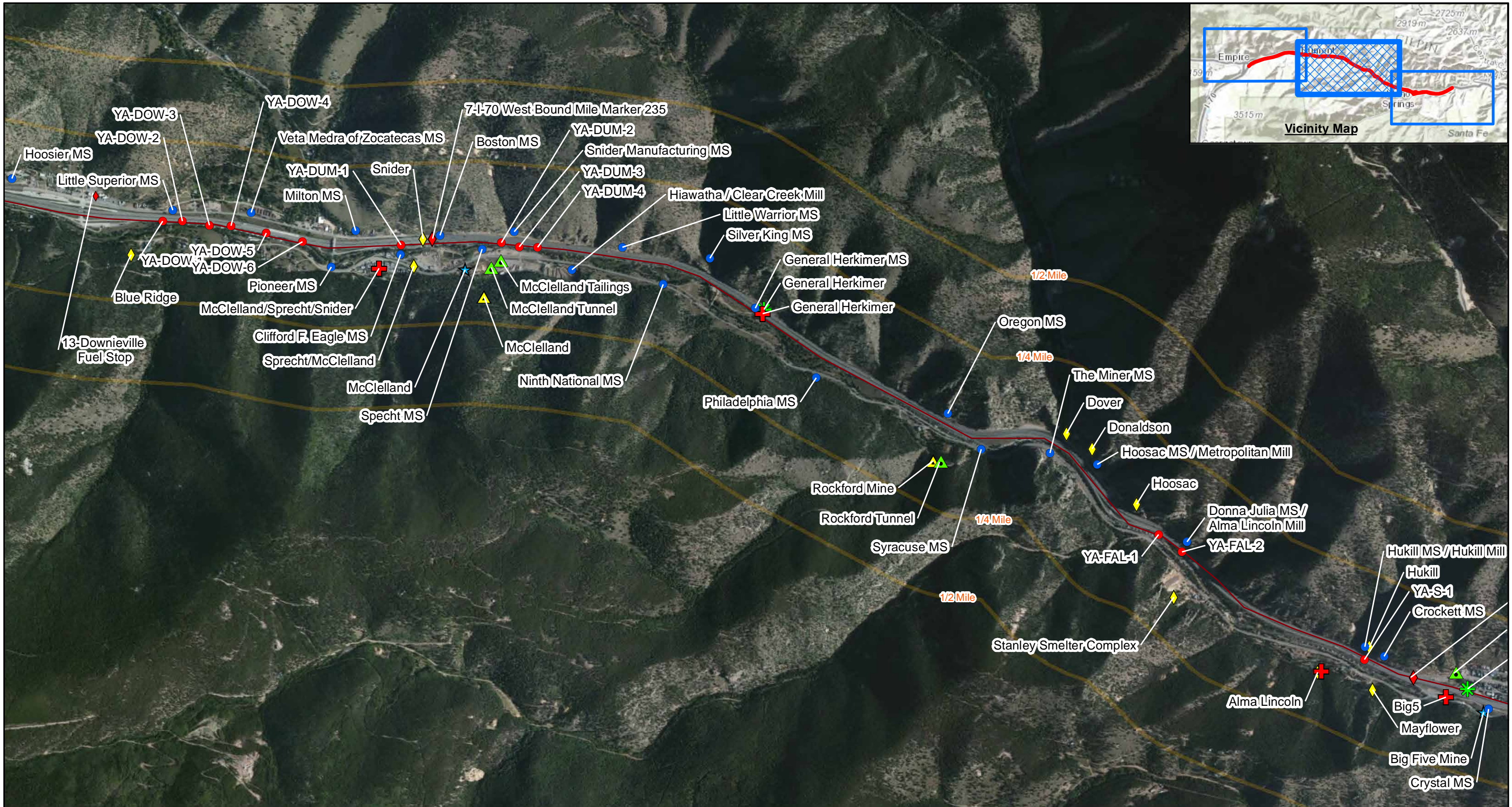
Legend

- Bore Hole Locations
- Mill Sites
- ⊕ Superfund Remediation Sites
- ◆ Not Remediated
- ✱ Partially Remediated
- ★ Remediated
- ◆ Site with Potential Impact to Project
- ▲ Superfund Listed Not Remediated
- ▲ Superfund Listed Operable Units



Pinyon
Environmental, Inc.

SITE MAP
 I-70 Peak Period Shoulder Lane
 Empire Junction to Idaho Springs
 Clear Creek County, Colorado



Sources:
 1) I-70 Mountain Corridor PEIS Regulated Materials and Historic Mining Technical Report, August 2010, Reissued March 2011.
 2) Five-Year Review Report, Fourth Five-Year Review Report for Central City/Clear Creek Superfund Site Gilpin and Clear Creek Counties, Colorado, September 2009 by Colorado Department of Public Health and Environment Hazardous Materials and Waste Management Division.

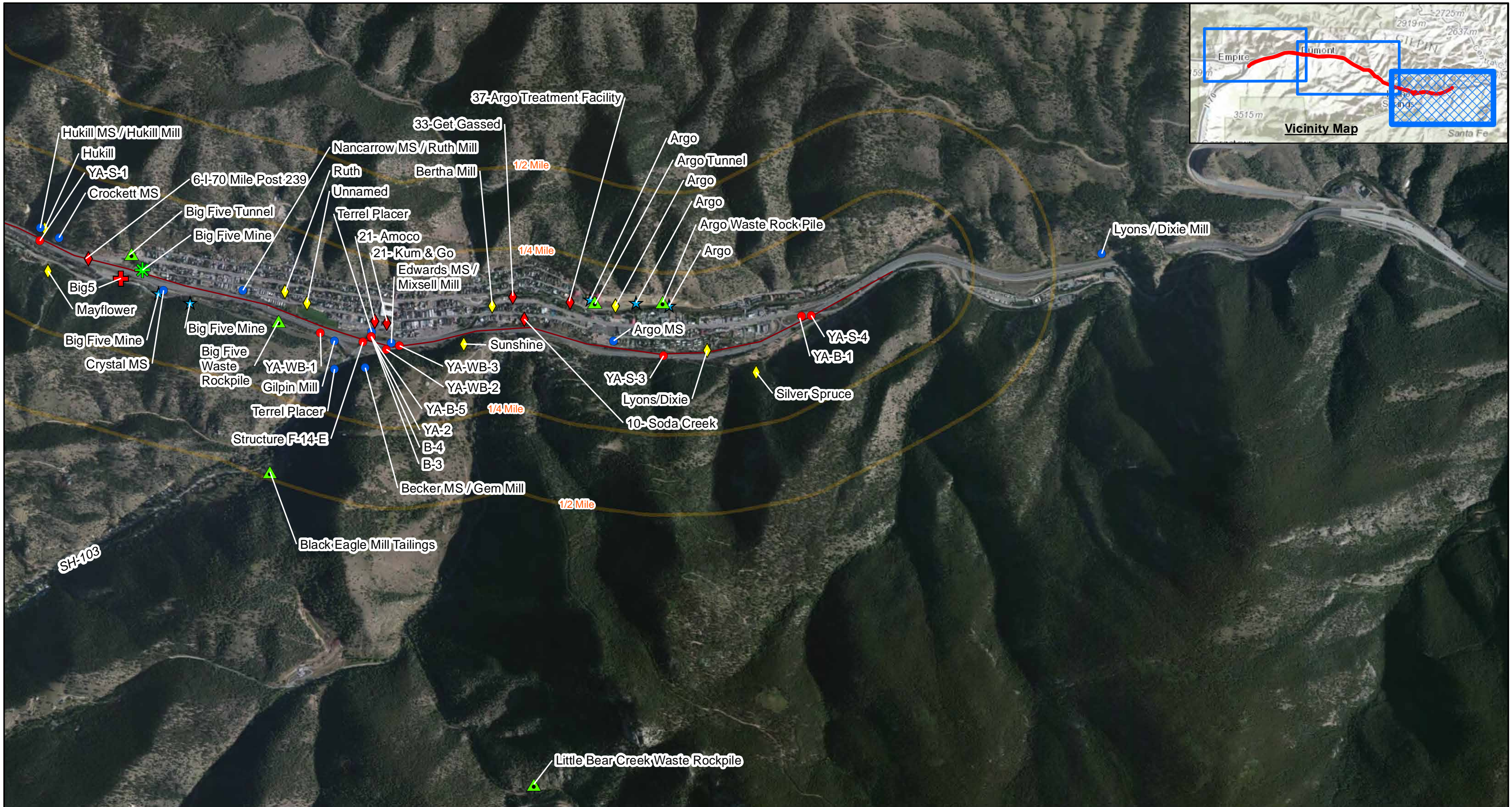
Legend

- | | | |
|-------------------------------|------------------------|---|
| ● Bore Hole Locations | ◆ Not Remediated | ◆ Site with Potential Impact to Project |
| ● Mill Sites | ✱ Partially Remediated | ▲ Superfund Listed Not Remediated |
| ⊕ Superfund Remediation Sites | ★ Remediated | ▲ Superfund Listed Operable Units |
- 0 750 1,500 Feet



Pinyon
Environmental, Inc.

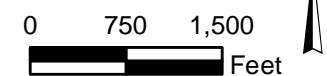
SITE MAP
 I-70 Peak Period Shoulder Lane
 Empire Junction to Idaho Springs
 Clear Creek County, Colorado



Sources:
 1) I-70 Mountain Corridor PEIS Regulated Materials and Historic Mining Technical Report, August 2010, Reissued March 2011.
 2) Five-Year Review Report, Fourth Five-Year Review Report for Central City/Clear Creek Superfund Site Gilpin and Clear Creek Counties, Colorado, September 2009 by Colorado Department of Public Health and Environment Hazardous Materials and Waste Management Division.

Legend

- Bore Hole Locations
- Mill Sites
- + Superfund Remediation Sites
- ◆ Not Remediated
- ✱ Partially Remediated
- ★ Remediated
- ◆ Site with Potential Impact to Project
- ▲ Superfund Listed Not Remediated
- ▲ Superfund Listed Operable Units



SITE MAP
 I-70 Peak Period Shoulder Lane
 Empire Junction to Idaho Springs
 Clear Creek County, Colorado

Appendices

Appendix A Agency Database Summary and Report

Summary of Details of Identified Agency Listings

Agency Database Number	Facility Name	Facility Address	Distance (feet) / Direction	Type	Potential to Impact Site ¹
1	Central City, Clear Creek	Idaho Springs	On-site	NPL, SF	Yes; Further detail is available in Section 4.2 of the report.
2	WB I-70, Exit 240	WB I-70, Exit 240	On-site	SPILLS, ERNSCO	No
3	Orphan Tank	291 CR 308, Idaho Springs, CO 80452	On-site	LST, AST	No
3	Dumont Truck Stop	Dumont Truck Stop (I-70 and Dumont)	~100 north	SPILLS	No
3	Blackwell Oil Co., Inc.	I-70 and Dumont Exit	~100 north	UST	No
4	CDOT	I-70, Mile Post 241.05	Adjacent north	RCRAGR08, UST	No
5	I-70, Mile Post 234	I-70, Mile Post 234	On-site	ERNSCO	No
6	I-70, Mile Post 239	I-70, Mile Post 239	On-site	ERNSCO	Yes; Further detail is available in Section 3.5.1 of the report.
7	I-70, West Bound Mile Marker 235	I-70, West Bound Mile Marker 235	On-site	HMIRSR08	Yes; Further detail is available in Section 3.5.1 of the report.
8	Offramp of East Bound Exit 233	Offramp of East Bound Exit 233	Adjacent south	SPILLS	No
9	PSCO-Dumont SC	681 CR 308	~100 north	RCRAGR08	No
10	Soda Creek, South of Minor St.	Soda Creek, South of Minor St.	~150 north	ERNSCO	Yes; Further detail is available in Section 4.2 of the report.
10	Idaho Springs Lumber Co.	1965 Miner St, Idaho Springs	~150 north	UST	No
11	Revolution Auto and Towing	909 County Road 308	~150 north	RCRAGR08	No

Modified Environmental Site Assessment

I-70 Eastbound Peak Period Shoulder Lane

Empire Junction to Idaho Springs, Clear Creek County, Colorado

Agency Database Number	Facility Name	Facility Address	Distance (feet) / Direction	Type	Potential to Impact Site ¹
12	2911 Colorado Blvd, Idaho Springs	2911 Colorado Blvd, Idaho Springs	~350 north	SPILLS, SPILLS, SPILLS, SPILLS	No
12	K&G Store #528	2911 Colorado Blvd, Idaho Springs	~350 north	UST	No
12	BP Facility #70482	2911 Colorado Blvd, Idaho Springs	~350 north	RCRAGR08	No
13	Downieville Fuel Stop REXOCO #35	1039 CR308 and 1041-1041A CR308	~200 north	UST, LST	Yes; Further detail is available in Section 4.2 of the report.
14	Center Street at Fifth Avenue	Center Street at Fifth Avenue, Idaho Springs	~150 north	ERNSCO	No
15	CDOT Idaho Springs CSP	3000 Colorado Blvd, Idaho Springs	~400 north	LST, UST, AST	No
16	Silver City Automotive	243 Colorado Blvd, Idaho Springs	~275 north	UST, LST	No
17	Wastewater Treatment Plant	1711 Miner St, Idaho Springs	~250 north	SPILLS	No
18	City of Idaho Springs	2000 Miner St, Idaho Springs	~300 north	SPILLS	No
19	Clear Creek School Transportation Division	1125 Idaho St, Idaho Springs	~250 north	UST	No
20	Buffalo Trails Gift Shop	1535 Miner St, Idaho Springs	~250 north	RCRAGR08	No
21	Kum & Go #975	1359 Miner St, Idaho Springs	~300 north	LST, UST	No
21	Amoco #5329	1319 Miner St, Idaho Springs	~300 north	UST, ERNSCO, HMIRSR08, RCRANGRO8, LST	No
22	Miner Street Shell	115 13th Ave, Idaho Springs	~300 north	UST, LST	No
22	Wardrobe Cleaners	1241 Miner St, Idaho Springs	~300 north	NLRRCRAG, RCRANGRO8	No
23	Center Street at Fifth Avenue	Center Street at Fifth Avenue	~300 north	SPILLS	No.

Modified Environmental Site Assessment

I-70 Eastbound Peak Period Shoulder Lane

Empire Junction to Idaho Springs, Clear Creek County, Colorado

Agency Database Number	Facility Name	Facility Address	Distance (feet) / Direction	Type	Potential to Impact Site ¹
23	Orphan Tank	1840 Miner St, Idaho Springs	~300 north	UST, LST	No
24	1300 Minor Street	1300 Minor Street, Idaho Springs	~450 north	SPILLS	No
25	Idaho Springs Sunmart #501	2833 Colorado Blvd, Idaho Springs	~325 north	UST	No.
26	Clear Creek County Sportsmen Club	3201 County Road, Dumont	~275 south	RCRAGR08	No
27	Bolo Limited Liability/Former Service Station	2410 Colorado Blvd, Idaho Springs	~250 north	LST, UST, AST	No.
27	Eight Ball Tire and Auto	2410 Colorado Blvd, Idaho Springs	~250 north	RCRANGRO8	No
28	Clear Creek County Road and Bridge	3549 Clear Creek CR312, Dumont	~200 south	UST	No
29	Blackwell Oil Co., Inc.	1246 Miner St, Idaho Springs	~450 north	UST, LST	No
30	25 Dumont Lane	25 Dumont Lane, Dumont	~400 north	SPILLS	No
31	Lawson Trailer Court	2038 CR308, Idaho Springs	Adjacent south	UST, LST	No
32	Spring Station, LLC	2900 Colorado Blvd, Idaho Springs	~500 north	LST, AST	No
33	Get Gassed	1856 Colorado Blvd, Idaho Springs	~500 north	LST, SPILLS, UST, AST	Yes; Further detail is available in Section 4.2 of the report..
34	9th Ave and Colorado Blvd	9th Ave and Colorado Blvd, Idaho Springs	~550 north	SPILLS	No
35	Western Convenience #120	2630 Colorado Blvd, Idaho Springs	~525 north	UST	No
36	Scorpion Shell/Texaco	2808 Colorado Blvd, Idaho Springs	~600 north	LST, SWF, UST	No
36	Blackwell Oil Co., Inc.	2806 Colorado Blvd, Idaho Springs	~600 north	UST, LST	No
36	Tall Country Idaho Springs	2806 Colorado Blvd, Idaho Springs	~600 north	UST	No
37	Argo Treatment Facility	2330 Riverside Dr, Idaho Springs	~625 north	SPILLS	Yes
38	Silver Spruce Mill	Address not reported	~500 south	HISTSWLF	Yes

Modified Environmental Site Assessment

I-70 Eastbound Peak Period Shoulder Lane

Empire Junction to Idaho Springs, Clear Creek County, Colorado

Agency Database Number	Facility Name	Facility Address	Distance (feet) / Direction	Type	Potential to Impact Site ¹
39	Idaho Springs Utilities	Colorado Blvd and 16th Ave, Idaho Springs	~600 north	SPILLS	No
40	920 Colorado Blvd	920 Colorado Blvd, Idaho Springs	~700 north	SPILLS, CDL	No
41	Everist Material	Highway 40 and Highway 257	~1,000 northwest	SPILLS	No
42	1938 Wall St	1938 Wall St, Idaho Springs	~1,200 north	CDL	No
43	CSM Experimental Mine	365 8th St, Idaho Springs	~1,500 north	NFRAP, CERCLIS	No

Notes:

¹ Potential impacts are assessed based on depth and direction of groundwater flow, and distance from Site. See the following report for the facility number and Appendix D for definitions of acronyms.



Radius Report

[Satellite view](#)

Target Property:

I-70 PPSL

Clear Creek County, Clear Creek County, Colorado 80452

Prepared For:

Satisfi

Order #: 28445

Job #: 63544

Project #: 11319101

Date: 09/12/2013

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Target Property Summary

I-70 PPSL

Clear Creek County, Clear Creek County, Colorado 80452

USGS Quadrangle: **Central City, CO**

Target Property Geometry: **Corridor**

Target Property Longitude(s)/Latitude(s):

(-105.65611, 39.758155), (-105.65611, 39.758155), (-105.65458, 39.759410), (-105.65182, 39.760456), (-105.64701, 39.761745), (-105.64008, 39.763140), (-105.63408, 39.764220), (-105.63248, 39.764639), (-105.62910, 39.765928), (-105.62582, 39.766381), (-105.62010, 39.766521), (-105.61383, 39.765510), (-105.61125, 39.765371), (-105.60717, 39.765196), (-105.60271, 39.764534), (-105.59880, 39.764011), (-105.59284, 39.764220), (-105.59072, 39.764325), (-105.58570, 39.763907), (-105.58099, 39.763523), (-105.57761, 39.762721), (-105.57454, 39.761188), (-105.56830, 39.758155), (-105.56360, 39.756064), (-105.56193, 39.755471), (-105.55827, 39.755611), (-105.55649, 39.754844), (-105.55457, 39.752996), (-105.55359, 39.752195), (-105.55133, 39.751463), (-105.54798, 39.749057), (-105.54586, 39.747698), (-105.53993, 39.745816), (-105.53895, 39.745397), (-105.53453, 39.744247), (-105.53125, 39.743410), (-105.52930, 39.743201), (-105.52581, 39.742400), (-105.52174, 39.741180), (-105.51909, 39.740796), (-105.51647, 39.740796), (-105.51400, 39.741389), (-105.51048, 39.741458), (-105.50828, 39.741040), (-105.50636, 39.740413), (-105.50392, 39.740308), (-105.50037, 39.740238), (-105.49831, 39.740517), (-105.49437, 39.741981), (-105.49218, 39.743097), (-105.49019, 39.744073)

County/Parish Covered:

Clear Creek (CO) , Gilpin (CO)

Zipcode(s) Covered:

Golden CO: 80403

Evergreen CO: 80439

Idaho Springs CO: 80452

State(s) Covered:

CO

*** Target property is located in Radon Zone 1.**

Zone 1 areas have a predicted average indoor radon screening level greater than 4 pCi/L

(picocuries per liter).

This report was designed by GeoSearch to meet or exceed the records search requirements of the All Appropriate Inquires Rule (40 CFR §312.26) and the current version of the ASTM International E1527, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process or, if applicable, the custom requirements requested by the entity that ordered this report. The records and databases of records used to compile this report were collected from various federal, state and local governmental entities. It is the goal of GeoSearch to meet or exceed the 40 CFR §312.26 and E1527 requirements for updating records by using the best available technology. GeoSearch contacts the appropriate governmental entities on a recurring basis. Depending on the frequency with which a record source or database of records is updated by the governmental entity, the data used to prepare this report may be updated monthly, quarterly, semi-annually, or annually.

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Database Findings Summary

FEDERAL LISTING

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
CLANDESTINE DRUG LABORATORY LOCATIONS	CDL	2	0	0.2500
FEDERAL ENGINEERING INSTITUTIONAL CONTROL SITES	EC	0	1	0.2500
EMERGENCY RESPONSE NOTIFICATION SYSTEM	ERNSCO	6	6	0.2500
HISTORICAL GAS STATIONS	HISTPST	0	0	0.2500
HAZARDOUS MATERIALS INCIDENT REPORTING SYSTEM	HMIRSR08	2	2	0.2500
LAND USE CONTROL INFORMATION SYSTEM	LUCIS	0	0	0.2500
NO LONGER REGULATED RCRA GENERATOR FACILITIES	NLRRCRAG	1	0	0.2500
RESOURCE CONSERVATION & RECOVERY ACT - GENERATOR FACILITIES	RCRAGR08	2	0	0.2500
RESOURCE CONSERVATION & RECOVERY ACT - NON-GENERATOR FACILITIES	RCRANGR08	7	2	0.2500
RCRA SITES WITH CONTROLS	RCRASC	0	0	0.2500
TOXICS RELEASE INVENTORY	TRI	0	0	0.2500
BROWNFIELDS MANAGEMENT SYSTEM	BF	0	0	0.5000
COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION & LIABILITY INFORMATION SYSTEM	CERCLIS	1	1	0.5000
NO FURTHER REMEDIAL ACTION PLANNED SITES	NFRAP	1	0	0.5000
NO LONGER REGULATED RCRA NON-CORRACTS TSD FACILITIES	NLRRCRAT	0	0	0.5000
OPEN DUMP INVENTORY	ODI	0	0	0.5000
RESOURCE CONSERVATION & RECOVERY ACT - TREATMENT, STORAGE & DISPOSAL FACILITIES	RCRAT	0	0	0.5000
DELISTED NATIONAL PRIORITIES LIST	DNPL	0	0	1.0000
NO LONGER REGULATED RCRA CORRECTIVE ACTION FACILITIES	NLRRCRAC	0	0	1.0000
NATIONAL PRIORITIES LIST	NPL	1	0	1.0000
PROPOSED NATIONAL PRIORITIES LIST	PNPL	0	0	1.0000
RESOURCE CONSERVATION & RECOVERY ACT - CORRECTIVE ACTION FACILITIES	RCRAC	0	0	1.0000
RECORD OF DECISION SYSTEM	RODS	0	1	1.0000
SUB-TOTAL		23	13	

Database Findings Summary

STATE (CO) LISTING

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
ABOVEGROUND STORAGE TANK FACILITIES	AST	5	1	0.2500
CLANDESTINE DRUG LABORATORY LOCATIONS	CDL	1	0	0.2500
ENVIRONMENTAL REAL COVENANTS LIST	COVENANTS	0	0	0.2500
HAZARDOUS WASTE SITES- GENERATOR	HWSG	0	0	0.2500
SPILLS LISTING	SPILLS	20	10	0.2500
UNDERGROUND STORAGE TANK FACILITIES	UST	22	2	0.2500
HISTORICAL SOLID WASTE LANDFILLS	HISTSWLF	1	8	0.5000
HAZARDOUS WASTE SITES- TREATMENT, STORAGE & DISPOSAL	HWSTSD	0	0	0.5000
LEAKING STORAGE TANK FACILITIES	LST	16	1	0.5000
LEAKING UNDERGROUND STORAGE TANKS TRUST FUND SITES	LUSTTRUST	0	2	0.5000
METHANE GAS STUDY SITES	METHANESITES	0	0	0.5000
SOLID WASTE FACILITIES	SWF	1	0	0.5000
VOLUNTARY CLEANUP AND REDEVELOPMENT PROGRAM SITES	VCRA	0	0	0.5000
HAZARDOUS WASTE SITES- CORRECTIVE ACTION	HWSCA	0	0	1.0000
SUPERFUND SITES	SF	1	0	1.0000
SUB-TOTAL		67	24	

Database Findings Summary

TRIBAL LISTING

<i>Database</i>	<i>Acronym</i>	<i>Locatable</i>	<i>Unlocatable</i>	<i>Search Radius (miles)</i>
UNDERGROUND STORAGE TANKS ON TRIBAL LANDS	USTR08	0	0	0.2500
LEAKING UNDERGROUND STORAGE TANKS ON TRIBAL LANDS	LUSTR08	0	0	0.5000
OPEN DUMP INVENTORY ON TRIBAL LANDS	ODINDIAN	0	0	0.5000
INDIAN RESERVATIONS	INDIANRES	0	0	1.0000
SUB-TOTAL		0	0	
TOTAL		90	37	

Locatable Database Findings

FEDERAL LISTING

Acronym	Search Radius (miles)	Target Property	1/8 Mile (> TP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
CDL	0.2500		0	2	NS	NS	NS	2
EC	0.2500		0	0	NS	NS	NS	0
ERNSCO	0.2500	3	3	0	NS	NS	NS	6
HISTPST	0.2500		0	0	NS	NS	NS	0
HMIRSR08	0.2500	1	1	0	NS	NS	NS	2
LUCIS	0.2500		0	0	NS	NS	NS	0
NLRRCRAG	0.2500		1	0	NS	NS	NS	1
RCRAGR08	0.2500	1	1	0	NS	NS	NS	2
RCRANGR08	0.2500		7	0	NS	NS	NS	7
RCRASC	0.2500		0	0	NS	NS	NS	0
TRI	0.2500		0	0	NS	NS	NS	0
BF	0.5000		0	0	0	NS	NS	0
CERCLIS	0.5000		0	0	1	NS	NS	1
NFRAP	0.5000		0	0	1	NS	NS	1
NLRRCRAT	0.5000		0	0	0	NS	NS	0
ODI	0.5000		0	0	0	NS	NS	0
RCRAT	0.5000		0	0	0	NS	NS	0
DNPL	1.0000		0	0	0	0	NS	0
NLRRCRAC	1.0000		0	0	0	0	NS	0
NPL	1.0000	1	0	0	0	0	NS	1
PNPL	1.0000		0	0	0	0	NS	0
RCRAC	1.0000		0	0	0	0	NS	0
RODS	1.0000		0	0	0	0	NS	0
SUB-TOTAL		6	13	2	2	0	0	23

Locatable Database Findings

STATE (CO) LISTING

Acronym	Search Radius (miles)	Target Property	1/8 Mile (> TP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
AST	0.2500		5	0	NS	NS	NS	5
CDL	0.2500		0	1	NS	NS	NS	1
COVENANTS	0.2500		0	0	NS	NS	NS	0
HWSG	0.2500		0	0	NS	NS	NS	0
SPILLS	0.2500	4	13	3	NS	NS	NS	20
UST	0.2500	2	18	2	NS	NS	NS	22
HISTSWLF	0.5000		1	0	0	NS	NS	1
HWSTSD	0.5000		0	0	0	NS	NS	0
LST	0.5000		15	1	0	NS	NS	16
LUSTTRUST	0.5000		0	0	0	NS	NS	0
METHANESITES	0.5000		0	0	0	NS	NS	0
SWF	0.5000		1	0	0	NS	NS	1
VCRA	0.5000		0	0	0	NS	NS	0
HWSCA	1.0000		0	0	0	0	NS	0
SF	1.0000	1	0	0	0	0	NS	1
SUB-TOTAL		7	53	7	0	0	0	67

Locatable Database Findings

TRIBAL LISTING

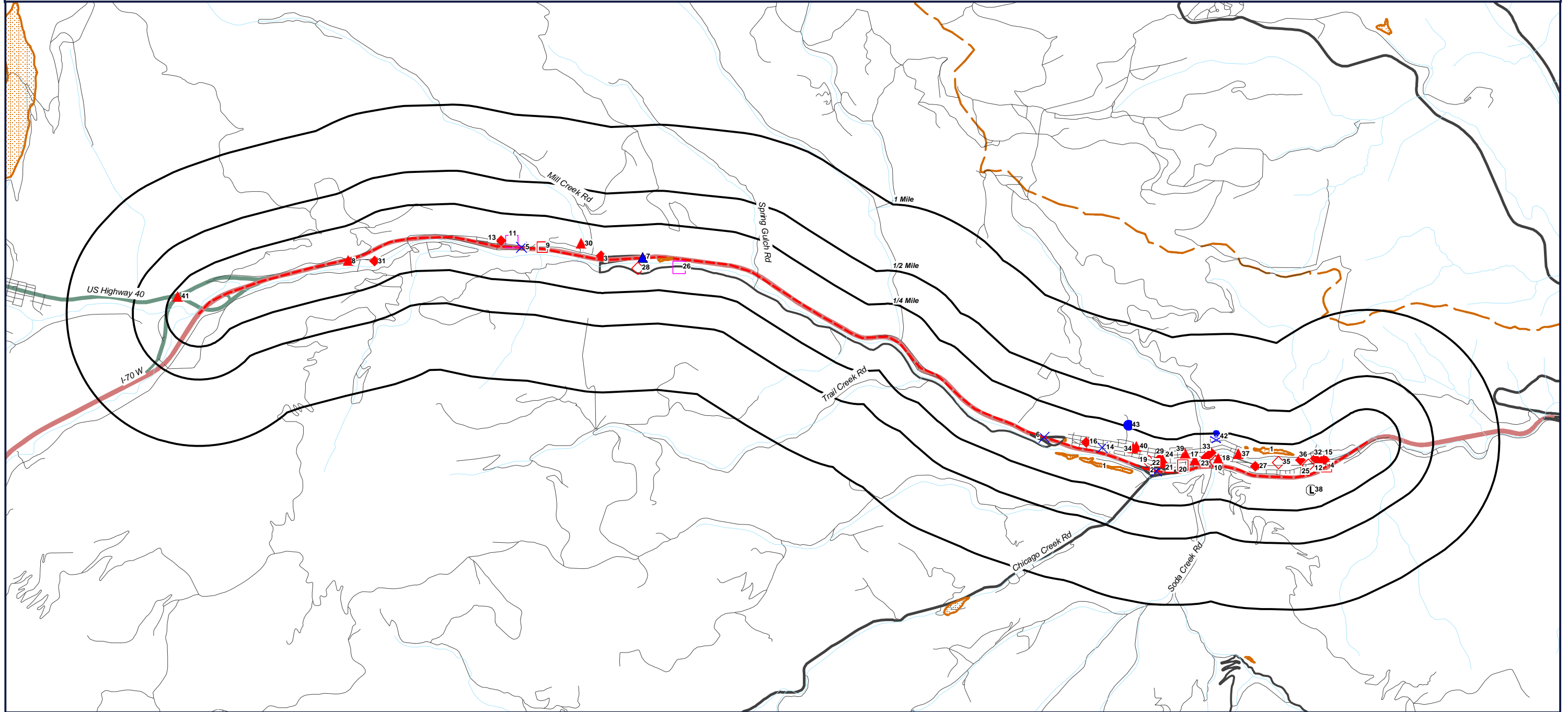
Acronym	Search Radius (miles)	Target Property	1/8 Mile (> TP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
USTR08	0.2500		0	0	NS	NS	NS	0
LUSTR08	0.5000		0	0	0	NS	NS	0
ODINDIAN	0.5000		0	0	0	NS	NS	0
INDIANRES	1.0000		0	0	0	0	NS	0

SUB-TOTAL			0	0	0	0	0	0
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TOTAL		13	66	9	2	0	0	90
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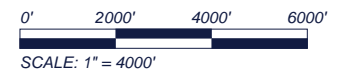
NOTES:
NS = NOT SEARCHED

RADIUS MAP

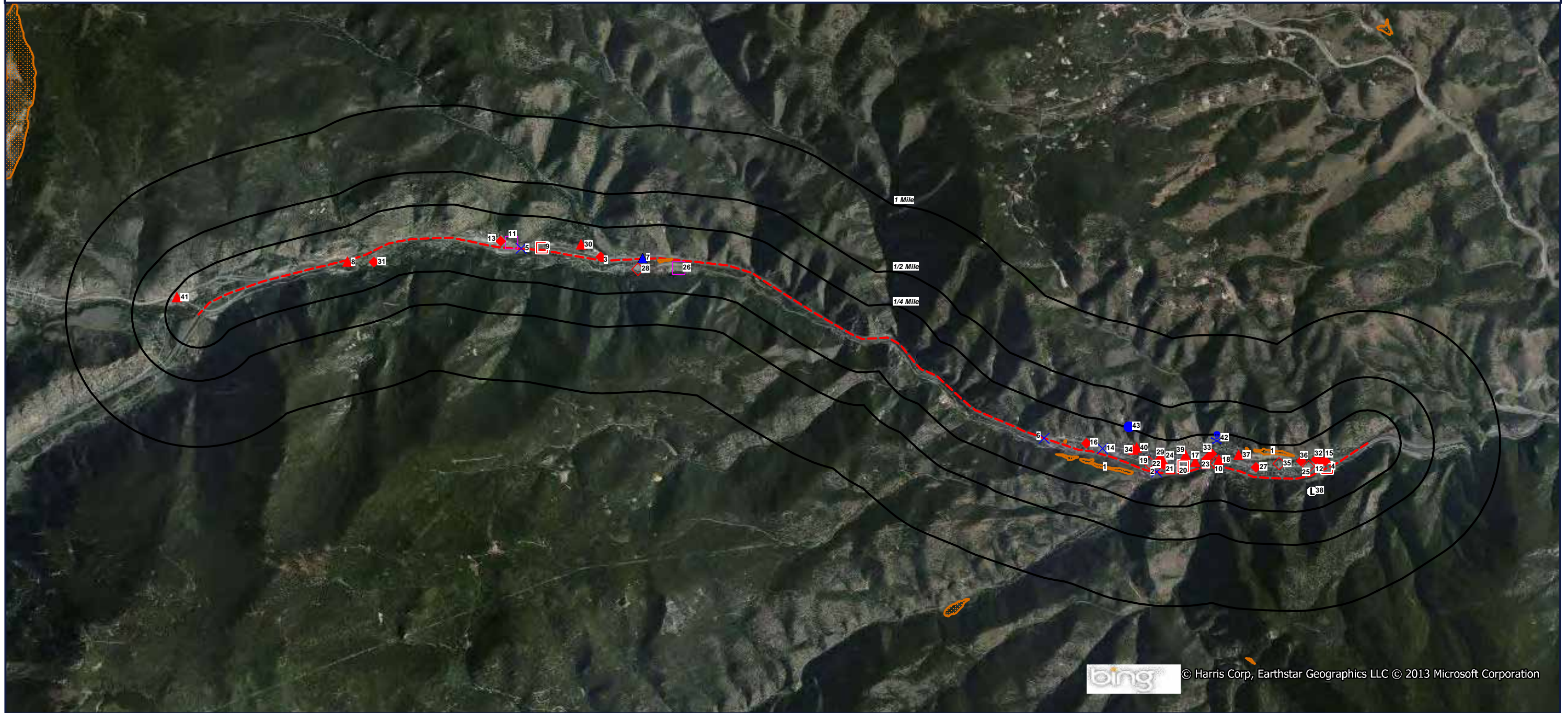


I-70 PPSL
Clear Creek County, Colorado
80452

- Target Property (TP)
- NPL
- SF
- ERNSCO
- LST
- RCRAGR08
- HMIRSR08
- SPILLS
- UST
- RCRANGR08
- HISTSWLF
- CDL
- CERCLIS

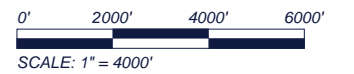


ORTHOPHOTO MAP

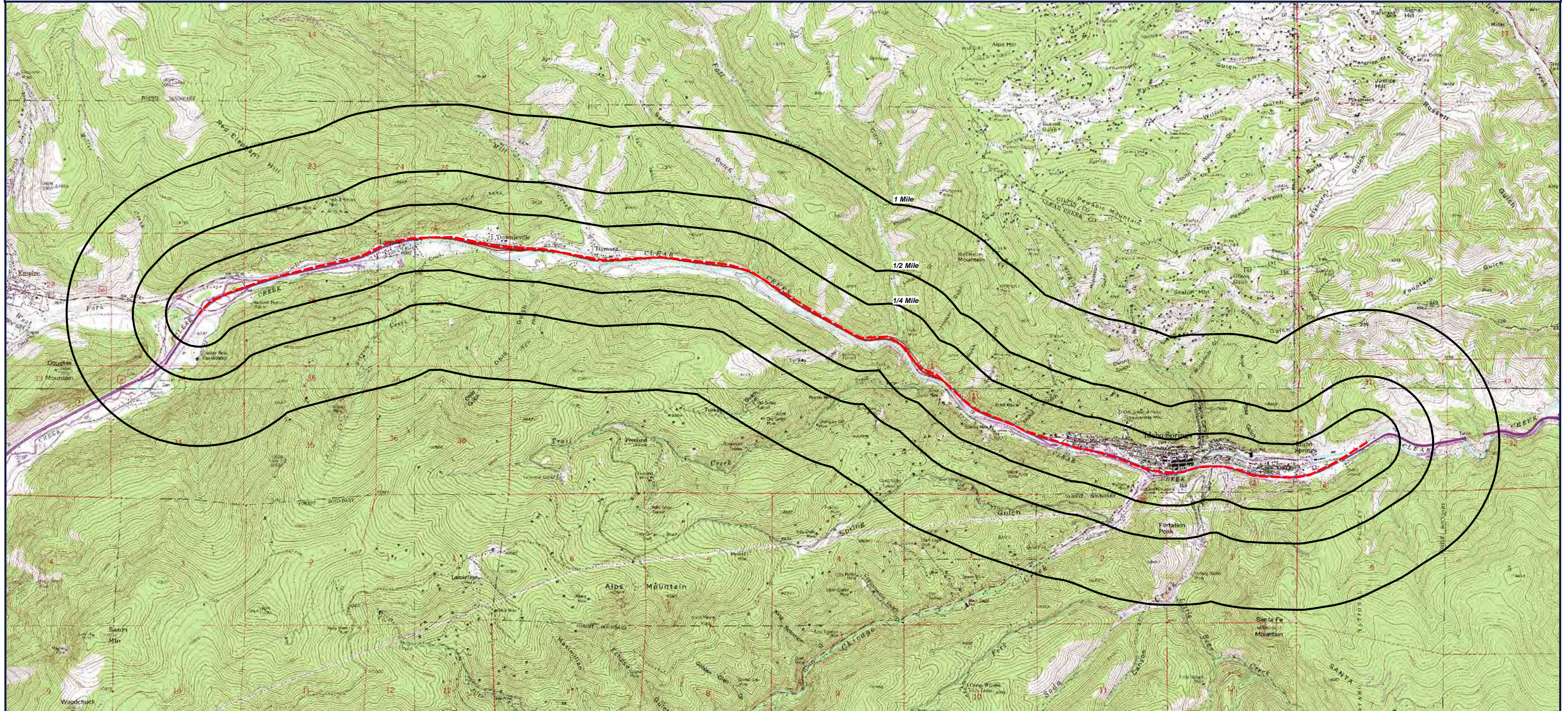


- Target Property (TP)
- NPL
- SF
- ERNSCO
- LST
- RCRAGR08
- HMIRSR08
- SPILLS
- UST
- RCRANGR08
- HISTSWLF
- CDL
- CERCLIS

**Quadrangle(s): Central City,
Idaho Springs, Empire, Squaw
Pass
I-70 PPSL
Clear Creek County, Colorado
80452**



TOPOGRAPHIC MAP



--- Target Property (TP)

**Quadrangle(s): Central City,
Idaho Springs, Empire, Squaw
Pass**
Source: USGS, 1972
I-70 PPSL
Clear Creek County, Colorado
80452



0' 2000' 4000' 6000'
SCALE: 1" = 4000'

Report Summary of Locatable Sites

Map ID#	Database Name	Site ID#	Distance From Site	Site Name	Address	City, Zip Code
1	NPL	COD980717557	0.001 W	CENTRAL CITY, CLEAR CREEK	NEAR TOWN	IDAHO SPRINGS, 80452
1	SF	COD980717557	0.001 W	CENTRAL CITY/CLEAR CREEK	NEAR TOWN	IDAHO SPGS,CENT.CY,B KHAWK, 80452
2	SPILLS	2007-0945	0.01 W		I-70 WB EXIT 240	IDAHO SPRINGS
2	ERNSCO	26672514	0.01 W		EXIT 240 WESTBOUND ON I-70	IDAHO SPRINGS
2	SPILLS	2002-1206	0.02 SW		I-70 AND COLORADO HWY 103	IDAHO SPRINGS
3	LST	18282	0.03 NW	ORPHAN TANK AT 291 CR 308	291 CR 308	IDAHO SPRINGS, 80452
3	SPILLS	CO97-455	0.01 W		DUMONT TRUCK STOP (I-70 & DUMONT)	DUMONT
3	UST	10644	0.01 W	BLACKWELL OIL CO INC	I-70 & DUMONT EXIT	DUMONT, 80436
3	AST	18282	0.03 NW	ORPHAN TANK AT 291 CR 308	291 CR 308	DUMONT, 80436
4	RCRAGR08	COD983773581	0.01 W	COLORADO DEPT OF TRANS - IDAHO SPRINGS	1-70 MP 241.05	IDAHO SPRINGS, 80452
4	UST	7418	0.01 W	CDOT IDAHO SPRINGS	HWY 70 MP 241.05	IDAHO SPRINGS, 80452
5	ERNSCO	605113636	0.01 W		I-70 / MILE POST 234	DUMONT
6	ERNSCO	2570796602	0.01 W		INTERSTATE 70 MILE MARKER 239	IDAHO SPRINGS
7	HMIRSR08	I-2002010020	0.01 NW		I-70 WB MM 235	DUMONT
8	SPILLS	2012-0313	0.02 S		OFFRAMP OF EB I-70 EXIT 233 (LAWSON	LAWSON
9	RCRAGR08	COD980961742	0.03 NW	PSCO-DUMONT SC	681 CR 308	DUMONT, 80436
10	ERNSCO	1279464214	0.04 NW		SODA CREEK SOUTH OF MINOR ST.	IDAHO SPRINGS
10	UST	10636	0.04 NW	IDAHO SPRINGS LUMBER CO	1965 MINER ST	IDAHO SPRINGS, 80452
11	RCRANGR08	COR000202523	0.04 N	REVOLUTION AUTO & TOWING	909 CNTY RD 308	DUMONT, 80436
12	SPILLS	2007-1005	0.05 NW		2911 COLORADO BLVD.	IDAHO SPRINGS, 80452
12	SPILLS	2011-0626	0.05 NW		2911 COLORADO BLVD	IDAHO SPRINGS, 80452
12	SPILLS	2011-0625	0.05 NW		2911 COLORADO BLVD,	IDAHO SPRINGS, 80452
12	SPILLS	2011-0627	0.05 NW		2911 COLORADO BLVD	IDAHO SPRINGS, 80452
12	SPILLS	2013-0263	0.05 NW		2911 COLORADO BLVD	IDAHO SPRINGS, 80452
12	UST	15075	0.05 NW	K & G STORE #528	2911 COLORADO BLVD	IDAHO SPRINGS, 80452
12	RCRANGR08	COR000209387	0.05 NW	BP FACILITY #70482	2911 COLORADO BLVD	IDAHO SPRINGS, 80452
12	LST	7418	0.06 NW	CDOT IDAHO SPRINGS	2931 COLORADO BLVD N SIDE HWY 70A	IDAHO SPRINGS, 80452
13	UST	3846	0.05 NW	DOWNIEVILLE FUEL STOP REXOCO #35	1039 CR 308 AND 1041-1041A CR 308	DOWNIEVILLE, 80436

Report Summary of Locatable Sites

13	LST	3846	0.05 NW	DOWNIEVILLE FUEL STOP REXOCO #35	1039 CR 308 AND 1041-1041A CR 308	DOWNIEVILLE, 80436
14	ERNSCO	1314279718	0.05 N		CENTER STREET AT FIFTH AVENUE	IDAHO SPRINGS
15	LST	2923	0.06 NW	CDOT IDAHO SPRINGS CSP	3000 COLORADO BLVD	IDAHO SPRINGS, 80452
15	UST	2923	0.06 NW	CSP - IDAHO SPRINGS #49612	3000 COLORADO BLVD	IDAHO SPRINGS, 80452
15	AST	12340	0.06 NW	CDOT IDAHO SPRINGS CSP	3000 COLORADO BLVD	IDAHO SPRINGS, 80452
16	UST	15563	0.06 N	SILVER CITY AUTOMOTIVE	243 COLORADO BLVD	IDAHO SPRINGS, 80452
16	LST	15563	0.06 N	SILVER CITY AUTOMOTIVE	243 COLORADO BLVD	IDAHO SPRINGS, 80452
17	SPILLS	2011-0453	0.06 NW		1711 MINER ST, AT THE WASTEWATER TR	IDAHO SPRINGS, 80452
18	SPILLS	2007-0763	0.06 NW		2000 MINER ST.	IDAHO SPRINGS
19	UST	8666	0.06 N	CLEAR CREEK SCHOOL TRANSPORTATION DIVISI	1125 IDAHO ST	IDAHO SPRINGS, 80452
20	RCRANGR08	COR000005892	0.06 NW	BUFFALO TRAILS GIFT SHOP	1535 MINER ST	IDAHO SPRINGS, 80452
21	LST	18798	0.07 NW	KUM & GO #975	1359 MINER ST	IDAHO SPRINGS, 80452
21	UST	6517	0.07 NW	AMOCO #5329	1319 MINER ST	IDAHO SPRINGS, 80452
21	UST	18798	0.07 NW	KUM & GO #975	1359 MINER ST	IDAHO SPRINGS, 80452
21	ERNSCO	3484211329	0.07 NW		1319 MINER STREET	IDAHO SPRINGS
21	HMIRSR08	I-2012020050	0.07 NW		1319 MINER STREET	IDAHO SPRINGS, 80452
21	RCRANGR08	COD983788126	0.07 NW	AMOCO OIL 5329	1319 MINER ST	IDAHO SPRINGS, 80452
21	LST	6517	0.07 NW	AMOCO OIL #5329	1319 MINER ST	IDAHO SPRINGS, 80452
22	UST	2423	0.07 N	MINER STREET SHELL	115 13TH AVE	IDAHO SPRINGS, 80452
22	NLRRCRAG	COD983800285	0.08 N	WARDROBE CLEANERS	1241 MINER ST	IDAHO SPRINGS, 80452
22	RCRANGR08	COD983800285	0.08 N	WARDROBE CLEANERS INC	1241 MINER ST	IDAHO SPRINGS, 80452
22	LST	2423	0.07 N	MINER STREET BUSINESS CORP	115 13TH AVE	IDAHO SPRINGS, 80452
23	SPILLS	2007-0517	0.08 N		CENTER ST & 5TH AVE	IDAHO SPRINGS
23	UST	18152	0.07 NW	ORPHAN TANK AT MINER STREET	1840 MINER ST	IDAHO SPRINGS, 80452
23	LST	18152	0.07 NW	ORPHAN TANK AT MINER STREET	1840 MINER ST	IDAHO SPRINGS, 80452
24	SPILLS	2006-1017	0.09 N		1300 MINOR STREET	IDAHO SPRINGS
25	UST	2287	0.07 NW	IDAHO SPRINGS SUNMART #501	2833 COLORADO BLVD	IDAHO SPRINGS, 80452
26	RCRANGR08	COR000204701	0.07 SW	CLEAR CREEK CNTY SPORTSMEN CLUB	3201 CNTY RD	DUMONT, 80436

Report Summary of Locatable Sites

27	LST	5418	0.08 NW	BOLO LIMITED LIABILITY	2410 COLORADO BLVD	IDAHO SPRINGS, 80452
27	UST	5418	0.08 NW	FORMER SERVICE STATION	2410 COLORADO BLVD	IDAHO SPRINGS, 80452
27	RCRANGR08	COD983802745	0.08 NW	EIGHT BALL TIRE & AUTO	2410 COLORADO BLVD.	IDAHO SPRINGS, 80452
27	AST	13123	0.08 NW	BOLO LIMITED LIABILITY	2410 COLORADO BLVD	IDAHO SPRINGS, 80452
28	UST	8661	0.08 S	CLEAR CREEK COUNTY ROAD & BRIDGE	3549 CLEAR CREEK CR 312	DUMONT, 80436
29	UST	10641	0.1 N	BLACKWELL OIL CO	1246 MINER ST	IDAHO SPRINGS, 80452
29	LST	10641	0.1 N	BLACKWELL OIL CO	1246 MINER ST	IDAHO SPRINGS, 80452
30	SPILLS	2012-0785	0.09 N		25 DUMONT LANE	DUMONT, 80452
31	UST	16216	0.09 S	LAWSON TRAILER COURT	2038 CR 308	IDAHO SPRINGS, 80452
31	LST	16216	0.09 S	LAWSON TRAILER COURT	2038 CR 398	IDAHO SPRINGS, 80452
32	LST	17890	0.1 NW	SPRING STATION LLC	2900 COLORADO BLVD	IDAHO SPRINGS, 80452
32	AST	17890	0.1 NW	SPRING STATION LLC	2900 COLORADO BLVD	IDAHO SPRINGS, 80452
33	LST	3445	0.11 N	GET GASSED	1856 COLORADO BLVD	IDAHO SPRINGS, 80452
33	SPILLS	CO96-458	0.11 N		1856 COLORADO BLVD	IDAHO SPRINGS, 80452
33	UST	3445	0.11 N	GET GASSED	1856 COLORADO BLVD	IDAHO SPRINGS, 80452
33	AST	13758	0.11 N	GET GASED	1856 COLORADO BLVD	IDAHO SPRINGS, 80452
34	SPILLS	2008-0076	0.11 N		9TH AVE. & COLORADO BLVD.	IDAHO SPRINGS
35	UST	946	0.11 N	WESTERN CONVENIENCE #120	2630 COLORADO BLVD	IDAHO SPRINGS, 80452
36	LST	10789	0.12 NW	SCORPION SHELL	2808 COLORADO BLVD	IDAHO SPRINGS, 80452
36	SWF	4256013643	0.12 NW	SCORPION TEXACO INC	2808 COLORADO BOUL	IDAHO SPRINGS, 80452
36	UST	10638	0.13 NW	BLACKWELL OIL CO	2806 COLORADO BLVD	IDAHO SPRINGS, 80452
36	UST	10789	0.12 NW	SCORPION SHELL	2808 COLORADO BLVD	IDAHO SPRINGS, 80452
36	UST	14756	0.13 NW	TALL COUNTRY IDAHO SPRINGS	2806 COLORADO BLVD	IDAHO SPRINGS, 80452
36	LST	10638	0.13 NW	BLACKWELL OIL CO	1246 MINER ST	IDAHO SPRINGS, 80452
37	SPILLS	2007-0493	0.12 N		2330 RIVERSIDE DR	IDAHO SPRINGS, 80452
38	HISTSWLF	00070-0001096	0.12 S	SILVER SPRUCE MILL	ADDRESS NOT REPORTED	CITY NOT REPORTED
39	SPILLS	2008-0170	0.13 NW		COLORADO BLVD & 16TH AVE	IDAHO SPRINGS, 80452
40	SPILLS	2006-620	0.13 N		920 COLORADO BLVD	IDAHO SPRINGS

Report Summary of Locatable Sites

40	CDL	448385837	0.13 N		920 COLORADO BOULEVARD	IDAHO SPRINGS, 80452
40	CDL	3424068808	0.13 N		920 COLORADO BLVD.	IDAHO SPRINGS, 80452
41	SPILLS	2005-436	0.21 NW		HWY 40 & HWY 257	EMPIRE
42	CDL	863187168	0.23 N		1938 WALL ST	IDAHO SPRINGS, 80452
43	NFRAP	COD983793753	0.26 N	CSM EXPERIMENTAL MINE	365 8TH STREET	IDAHO SPRINGS, 80452
43	CERCLIS	COD983793753	0.26 N	CSM EXPERIMENTAL MINE	365 8TH STREET	IDAHO SPRINGS, 80452

National Priorities List (NPL)

MAP ID# 1

Distance from Property: 0.00 mi. W

FACILITY INFORMATION

EPA ID#: COD980717557

SITE ID#: 0800257

NAME: CENTRAL CITY, CLEAR CREEK

ADDRESS: NEAR TOWN

IDAHO SPRINGS, CO 80452

COUNTY: CLEAR CREEK

NATIONAL PRIORITY LISTING: F - CURRENTLY ON THE FINAL NPL

FEDERAL FACILITY CLASSIFICATION: N - NOT A FEDERAL FACILITY

NON-NPL STATUS: NOT REPORTED -

NON-NPL STATUS DATE: / /

PHYSICAL CLASSIFICATION OF SITE / INCIDENT: MINES/TAILINGS

FEDERAL REGISTER INFORMATION

DATE	VOLUME	PAGE #	ACTION	HRS SCORE
12/30/1982	47	58476	PROPOSED TO THE FINAL NPL	46.65
09/08/1983	48	40658	PROMULGATED TO THE FINAL NPL	51.39

SITE DESCRIPTION

THE CLEAR CREEK WATERSHED INCORPORATES THE CLEAR CREEK/CENTRAL CITY SUPERFUND INVESTIGATION AREA AND THE HISTORIC MINING ACTIVITIES ASSOCIATED WITH THE COLORADO MINERAL BELT WHERE THE WATERSHED AND THE MINERAL BELT INTERSECT. THE WATER QUALITY OF THE WATERSHED IS COMPROMISED BY METALS CONTAMINATION FROM ACID MINE DRAINAGE DISCHARGING FROM HISTORIC MINE TUNNELS TO CLEAR CREEK AND ITS TRIBUTARIES, FROM DIFFUSE GROUND WATER METALS LOADINGS ASSOCIATED WITH FLOODED UNDERGROUND MINE WORKINGS, AND FROM MINE WASTE PILES LOCATED ADJACENT TO THE FLOWS IN CLEAR CREEK AND ITS TRIBUTARIES. AS A RESULT, THE EPA INCLUDED THE WATERSHED ON THE INTERIM NATIONAL PRIORITY LIST (NPL) IN 1982. IN 1983 IT WAS RETAINED ON THE FINAL NPL.

A PHASE I CLEAR CREEK/CENTRAL CITY REMEDIAL INVESTIGATION AND FEASIBILITY STUDY (RI/FS) WERE CONDUCTED IN 1985 IN THE IDAHO SPRINGS AND THE BLACK HAWK/CENTRAL CITY AREAS. THIS INVESTIGATION FOCUSED ON DISCHARGES AND MINING-RELATED WASTES ASSOCIATED WITH THE BIG 5 TUNNEL AND ARGO TUNNEL LOCATED IN IDAHO SPRINGS, COLORADO, AND THE NATIONAL TUNNEL, QUARTZ HILL TUNNEL IN CENTRAL CITY, COLORADO, AND THE GREGORY INCLINE IN BLACK HAWK, COLORADO. THE PHASE I FS WAS COMPLETED IN AUGUST 1988.

A PHASE II CLEAR CREEK/CENTRAL CITY RI/FS WAS IMPLEMENTED IN 1989 FOR THE COLORADO DEPARTMENT OF HEALTH, KNOWN NOW AS THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT (CDPHE), WHICH WAS DESIGNATED THE ROLE OF LEAD AGENCY IN 1988. THE PHASE II INVESTIGATION BROADENED THE ORIGINAL PHASE I AREA TO INCLUDE THE APPROXIMATELY 400 SQUARE MILE CLEAR CREEK WATERSHED ABOVE GOLDEN, COLORADO. THE PHASE II RI WAS COMPLETED IN SEPTEMBER 1990 AND THE DRAFT PHASE II FS SUBMITTED TO THE PUBLIC FOR COMMENT IN JUNE 1991.

THE CLEAR CREEK CENTRAL CITY SUPERFUND INVESTIGATION AREA WAS DIVIDED INTO FOUR OPERABLE UNITS (OUS) FOR THE PURPOSE OF ADDRESSING SPECIFIC SOURCES OF METALS CONTAMINATION.

OU1 WAS DESIGNATED TO EVALUATE TREATMENT OF THE ACID MINE DRAINAGE FROM THE NATIONAL, GREGORY INCLINE, QUARTZ HILL, ARGO, AND BIG FIVE TUNNEL DISCHARGES. THE FEASIBILITY STUDY FOR OU1 WAS COMPLETED IN 1987 AND A RECORD OF DECISION (ROD) WAS SIGNED IN SEPTEMBER 1987. THE ROD SELECTED PASSIVE TREATMENT OF THE DISCHARGING ACID MINE WATER AS THE PREFERRED REMEDIAL ALTERNATIVE. IF IT WAS DETERMINED THAT

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PASSIVE TREATMENT WAS NOT EFFECTIVE, THE ROD ALLOWED THE FLEXIBILITY FOR ACTIVE TREATMENT. ACTIVE TREATMENT OF THE ARGO TUNNEL DISCHARGE HAS BEEN EFFECTIVE IN REDUCING METALS LOADING TO CLEAR CREEK.

OPERABLE UNIT 01:

SURFACE WATER CONTAMINATION RESULTS FROM ACID MINE DRAINAGE EMANATING FROM THE FIVE TUNNELS AND FROM SEEPAGE OF GROUND WATER THROUGH TAILINGS PILES BOTH PROXIMAL TO THESE TUNNELS AND ALONG STREAM COURSES. POTENTIAL CONTAMINANT RECEPTORS INCLUDE INHABITANTS OF THE AREA, DOWNSTREAM SURFACE WATER AND GROUND WATER USERS AND WILDLIFE, BOTH TERRESTRIAL AND AQUATIC. RECENT STUDIES COMPLETED BY EPA INDICATE THAT SIGNIFICANT LOADINGS OF DISSOLVED AND SUSPENDED METALS (1,200 POUNDS PER DAY) ARE DISCHARGED TO THE CLEAR CREEK DRAINAGE FROM THE FIVE MINE TUNNELS. THESE DISSOLVED AND SUSPENDED METAL LOADINGS HAVE RESULTED IN A SIGNIFICANT DEPLETION OF AQUATIC LIFE AND HAVE POTENTIAL IMPACT TO DOWNSTREAM USERS OF SURFACE AND GROUND WATER.

THE ACIDITY OF THE MINE DRAINAGE IS DUE LARGELY TO OXIDIZED GROUND WATER PASSING THROUGH ORE ZONES DOMINATED BY IRON-BEARING MINERALS, PRIMARILY PYRITE. ONE METHOD OF FORMING ACID MINE DRAINAGE IS SULFIDE OXIDATION BEING CATALYZED BY AEROBIC BACTERIA, PARTICULARLY THE GENUS THIOBACILLUS, RESULTING IN THE RELEASE OF SULFURIC ACID AND, CONSEQUENTLY, FURTHER MINERAL DISSOLUTION. SUBSEQUENT DISCHARGE FROM THE TUNNELS RELEASES DISSOLVED AND SUSPENDED METALS TO CLEAR CREEK AND NORTH CLEAR CREEK, ADVERSELY AFFECTING WATER QUALITY FOR DOWNSTREAM USERS.

A RECORD OF DECISION ADDRESSING OPERABLE UNIT 01 OF THE CENTRAL CITY/CLEAR CREEK SITE WAS COMPLETED IN SEPTEMBER 1987.

OPERABLE UNIT 02:

THE WASTE ROCK/TAILINGS PILES CONSIDERED IN THE OPERABLE UNIT WERE SELECTED BASED ON THEIR LOCATION CLOSE TO THE ACID MINE DISCHARGES. CURRENTLY, THE MAJOR IMPACTS ON THE WATER QUALITY OF CLEAR CREEK ARE THE BIG FIVE AND ARGO MINE TUNNEL DISCHARGES. THE WATER QUALITY OF NORTH CLEAR CREEK IS AFFECTED BY THE NATIONAL TUNNEL DISCHARGE AND SEEPAGE FROM THE GREGORY INCLINE AND THE QUARTZ HILL TUNNEL. THE DISCHARGES FROM THE FIVE SITES WERE ADDRESSED IN OPERABLE UNIT NO. ONE.

IN ADDITION TO DIRECT DISCHARGE FROM THE MINE TUNNELS, CONTAMINATED WATER MAY ENTER THE CREEKS DURING OVERLAND SHEET FLOW. OVERLAND RUNOFF OCCURS DURING RAPID SNOW MELT AND THUNDERSTORMS. THE RESULTING SURFACE FLOW ACROSS THE TAILINGS AND WASTE ROCK PILES DISSOLVES SOLUBLE MINERALS AND TRANSPORTS PARTICULATE TAILINGS AND WASTE ROCK MATERIAL INTO THE CREEKS. THESE MECHANISMS RESULT IN ELEVATED CREEK ACIDITY AND METAL LOADS. THE INTRODUCTION OF TAILINGS AND WASTE ROCK INTO THE CREEKS COULD ALSO OCCUR DUE TO CATASTROPHIC COLLAPSE OF TAILINGS AND WASTE ROCK PILES DURING A FLASH FLOOD OR AS A RESULT OF UNDERCUTTING OF THE BASE OF THE PILE UNDER ANY FLOW REGIME.

A RECORD OF DECISION ADDRESSING OPERABLE UNIT TWO WAS COMPLETED IN MARCH 1988.

OU3 WAS ORIGINALLY DESIGNATED TO ADDRESS CONTROL OF SURGE EVENTS FROM THE ARGO TUNNEL PURSUANT TO THE PHASE I INVESTIGATION. HOWEVER, OU3 WAS REDESIGNED TO INCLUDE A FINAL DECISION FOR SURGE EVENTS FROM THE ARGO TUNNEL; THE VIRGINIA CANYON GROUND WATER METALS LOADING THAT IMPACTS THE WATER QUALITY OF CLEAR CREEK; REMEDIATION OF SEVERAL MINE WASTE ROCK PILES; A DECISION ON THE BIG 5 TUNNEL DISCHARGE; AND THE BURLEIGH TUNNEL DISCHARGE BASED UPON THE RESULTS OF THE PHASE II INVESTIGATION. THE OU3 ROD WAS SIGNED ON SEPTEMBER 30, 1991. THE PREFERRED REMEDIAL ACTION PLAN SELECTED TO ADDRESS THE BURLEIGH TUNNEL DISCHARGE WAS PASSIVE TREATMENT UTILIZING CONSTRUCTED WETLAND TECHNOLOGY. A ROD AMENDMENT ADDRESSING OU3 WAS COMPLETED IN SEPTEMBER 2003.

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OU 3 WAS ORIGINALLY DESIGNATED TO ADDRESS CONTROL OF SURGE EVENTS OF ACID MINE DRAINAGE FROM THE ARGO TUNNEL. THE SIGNING OF THE OU 3 ROD WAS DELAYED PENDING THE OUTCOME OF ADDITIONAL PHASE II INVESTIGATIONS. IN 1988, A PHASE II REMEDIAL INVESTIGATION (RI) WAS INITIATED TO TAKE A COMPREHENSIVE VIEW OF THE APPROXIMATELY 400 SQUARE MILE CLEAR CREEK DRAINAGE BASIN. THE OU 3 ROD WAS SIGNED ON SEPTEMBER 30, 1991, AND ADDRESSED THE PROBLEMS IDENTIFIED IN THE PHASE II RI. THE OU 3 ROD SUPERSEDED THE ORIGINAL OU 1 ROD. THE OU 2 ROD REMAINED UNCHANGED BY THE OU 3 ROD. THE OU 3 ROD SELECTED A COMBINATION OF ACTIVE TREATMENT FOR THE ARGO TUNNEL, PASSIVE TREATMENT FOR THE BURLEIGH TUNNEL, COLLECTION OF VIRGINIA CANYON GROUND WATER FOR TREATMENT, PROVISION OF AN ALTERNATE DRINKING WATER SUPPLY FOR USERS OF CONTAMINATED GROUND WATER, AND CAPPING, RUNON CONTROLS, RUNOFF CONTROLS, INSTITUTIONAL CONTROLS, AND/OR RETAINING STRUCTURES AS APPLICABLE FOR SELECTED PRIORITY MINE WASTE PILES. THE OU 3 ROD UTILIZED AN INTERIM WAIVER OF APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS (ARARS) TO DEFER A DECISION ON TREATMENT OF THE BIG FIVE TUNNEL, QUARTZ HILL TUNNEL, NATIONAL TUNNEL, AND GREGORY INCLINE. THE OU 4 RI, FEASIBILITY STUDY (FS), AND ROD HAVE SINCE EVALUATED AND ADDRESSED THE NATIONAL AND QUARTZ HILL TUNNELS AND GREGORY INCLINE THROUGH A COMBINATION OF ACTIVE AND PASSIVE TREATMENT SYSTEMS. THE BIG FIVE TUNNEL REQUIRES A FINAL DECISION.

THE OU 3 ROD STATED THAT: "THE INTERIM WAIVER OF APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS (ARARS) WAS INVOKED FOR THE BIG FIVE DISCHARGE. THE BIG FIVE DISCHARGE IS CURRENTLY DESIGNATED AS A PRIORITY DISCHARGE UNDER SECTION 304 (I) OF THE CLEAN WATER ACT BECAUSE IT WAS ORIGINALLY BELIEVED THAT THE DISCHARGE WAS IMPAIRING THE ATTAINMENT OF THE WATER QUALITY STANDARDS FOR CLEAR CREEK".

AS SPECIFIED UNDER THE STATUTORY DETERMINATIONS PORTION AT THE END OF THE OU 3 ROD, THE SELECTED ALTERNATIVE DETAILED UNDER THE OU 3 ROD WAS NOT INTENDED TO BE THE FINAL REMEDY OF THE SITE. BECAUSE THE ACTION PRESENTED UNDER THE OU 3 ROD WAS AN INTERIM ACTION, THE STATUTORY PREFERENCE FOR REMEDIES THAT REDUCE TOXICITY, MOBILITY, OR VOLUME AS A PRINCIPAL ELEMENT WOULD BE ADDRESSED BY THE FINAL RESPONSE ACTION FOR THE SITE. REVIEW OF THE SITE AND OF THE INTERIM REMEDY WOULD BE ONGOING AS THE EPA AND CDPHE CONTINUED TO DEVELOP FINAL REMEDIAL ALTERNATIVES FOR THE SITE.

TREATMENT OF THE BIG FIVE DISCHARGE AFTER IT IS CONVEYED TO THE EXISTING ARGO WATER TREATMENT FACILITY WILL REMOVE IT AS A PRIORITY DISCHARGE UNDER SECTION 304(1) AND MEET THE ARARS. INCLUSION OF THE BIG FIVE TUNNEL DISCHARGE IN THE INDIVIDUAL CONTROL STRATEGY AND DISCHARGE CONTROL MECHANISM FOR TREATMENT OF THE ARGO TUNNEL DISCHARGE WILL MEET REGULATORY REQUIREMENTS. THE INTERIM WAIVER WILL NO LONGER BE NECESSARY AND WILL BE WITHDRAWN. THEREFORE, ADDRESSING THE BIG FIVE DISCHARGE AS AN ELEMENT OF THE FINAL RESPONSE ACTION AT THE SITE WITH RESPECT TO ELIMINATING THE TOXICITY OF THIS DISCHARGE TO HUMAN HEALTH AND THE ENVIRONMENT, AS DISCUSSED IN THIS EXPLANATION OF SIGNIFICANT DIFFERENCE (ESD), IS APPROPRIATE.

A ROD ADDRESSING OU 3 WAS COMPLETED IN SEPTEMBER OF 1991. AN ESD PERTAINING TO THE OU3 ROD WAS COMPLETED IN JUNE OF 2005.

OU4:

OU4 WAS DESIGNATED IN 1999 AND INCLUDES SEDIMENT CONTROL ON THE NORTH FORK OF CLEAR CREEK AS WELL AND TRIBUTARIES TO THE NORTH FORK, WASTE ROCK PILES IN VIRGINIA CANYON, CLEAR CREEK MAINSTEM WASTE ROCK PILES, AN ON-SITE REPOSITORY TO CONSOLIDATE MINE WASTE ROCK, AND THE NORTH FORK AND MAIN STEM CLEAR CREEK RI/FS.

THE CLEAR CREEK/CENTRAL CITY SUPERFUND STUDY AREA COVERS THE APPROXIMATELY 400 SQUARE-MILE CLEAR CREEK WATERSHED, LOCATED IN THE FRONT RANGE OF THE COLORADO ROCKY MOUNTAINS. THE BASIN OF THE NORTH FORK OF CLEAR CREEK ENCOMPASSES APPROXIMATELY 60 SQUARE MILES OF THIS STUDY AREA, AND HAS BEEN

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DESIGNATED AS OPERABLE UNIT (OU) 4 OF THE CLEAR CREEK/CENTRAL CITY SUPERFUND SITE. OU 4 ENCOMPASSES THE NORTH FORK OF CLEAR CREEK AND ITS TRIBUTARIES AND THE MAIN STEM OF CLEAR CREEK FROM THE CONFLUENCE WITH THE NORTH FORK TO THE CITY OF GOLDEN, COLORADO. OU 4 CONSISTS OF HIGHLY VARIABLE MOUNTAINOUS TERRAIN CHARACTERIZED BY STEEP-WALLED CANYONS AND NARROW VALLEY FLOORS. CITIES WITHIN OU 4 ARE CENTRAL CITY AND BLACK HAWK. THESE CITIES HAVE EXPERIENCED ACCELERATED DEVELOPMENT SINCE THE INTRODUCTION OF GAMBLING IN 1991.

ELEVATED METALS CONCENTRATIONS ARE THE RISK DRIVERS WITHIN OU 4. THE METALS, OR CONTAMINANTS, OF CONCERN FOR AQUATIC LIFE ARE ZINC, COPPER, CADMIUM, AND MANGANESE, AND OF CONCERN FOR HUMAN HEALTH ARE LEAD AND ARSENIC. THE MAJORITY OF THESE METALS POSE ACUTE OR CHRONIC THREATS TO AQUATIC ORGANISMS WHICH ARE MORE SENSITIVE TO THEIR HIGH CONCENTRATIONS THAN ARE HUMANS. THE RISK TO HUMAN HEALTH DUE TO EXPOSURE TO MINE WASTES IS LOW, BUT IS ASSOCIATED WITH INGESTION OF WASTE ROCK AND INHALATION OF WASTE ROCK DUST. ECOLOGICAL RISK IS THE PRIMARY DRIVER OF CLEANUP ACTIONS AT OU 4 AND IS MAINLY ASSOCIATED WITH DIRECT EXPOSURE TO METALS-CONTAMINATED SURFACE WATER.

IN ADDITION TO THE DELETERIOUS EFFECTS OF MINE WASTES, THE AREAS OF POOR FISH HABITAT ALONG THE NORTH FORK ALSO THREATEN THE SURVIVAL OF TROUT SPECIES. IN SOME PLACES THE VALLEY THROUGH WHICH THE NORTH FORK FLOWS HAS BEEN SEVERELY NARROWED DUE TO HISTORIC MINING AND RECENT DEVELOPMENT. THIS HAS RESULTED IN THE CHANNELIZATION OF THE RIVER AND A DECREASE IN THE AMOUNT OF POOLS, RIFFLES, AND STREAM BANK VEGETATION THAT IS NECESSARY TO PROVIDE THRIVING FISH HABITAT.

CURRENT LAND USES WITHIN OU 4 INCLUDE RESIDENTIAL, RECREATION, AND TO A LIMITED EXTENT, AGRICULTURE AND RANCHING. THE CLEAR CREEK WATERSHED IS A POPULAR OUTDOOR RECREATION AREA FOR RESIDENTS ALONG THE FRONT RANGE. POPULAR ACTIVITIES INCLUDE HIKING, CAMPING, AND ALL-TERRAIN VEHICLE (ATV) RIDING. THE MAJORITY OF THE LAND WITHIN OU 4, NOT INCLUDING THE BLACK HAWK AND CENTRAL CITY AREAS, HAS A FORESTRY ZONING DESIGNATION, WHICH IS A BROAD DESIGNATION THAT DOES NOT PRECLUDE DEVELOPMENT OF THE LAND FOR RESIDENTIAL OR COMMERCIAL USE. BASED ON DISCUSSIONS WITH GILPIN COUNTY PLANNING OFFICIALS, FUTURE LAND USES WITHIN OU 4 COULD POTENTIALLY INCLUDE RESIDENTIAL AND COMMERCIAL USE IN ADDITION TO THE CURRENT USES OF THE LAND.

THE CLEAR CREEK WATERSHED IS A POPULAR RECREATION DESTINATION. RECREATIONAL SURFACE WATER USES WITHIN THE NORTH FORK BASIN (OU 4) INCLUDE FISHING, SWIMMING, GOLD PANNING, AND RECREATIONAL MINING. BASED ON THE RELATIVE LOW FLOW OF THE NORTH FORK COMPARED TO THE MAIN STEM OF CLEAR CREEK, AS WELL AS THE CONFINING NATURE OF THE VALLEY THROUGH WHICH THE NORTH FORK FLOWS, FUTURE USES OF THE SURFACE WATER WITHIN OU 4 ARE NOT EXPECTED TO CHANGE.

GROUND WATER WITHIN OU 4 IS CURRENTLY USED AS A DRINKING WATER SOURCE FOR RESIDENTS WHO LIVE OUTSIDE OF THE BLACK HAWK OR CENTRAL CITY BOUNDARIES WHERE CONNECTIONS TO MUNICIPAL WATER SUPPLIES ARE NOT FEASIBLE. THESE RESIDENTS ARE SCATTERED THROUGHOUT THE OU 4 BASIN OR CLUSTERED IN VERY SMALL TOWNS WITHIN NEVADA AND RUSSELL GULCHES. UNCONFINED BEDROCK AQUIFERS SUPPLY THIS DRINKING WATER. THESE AQUIFERS OFTEN OCCUR IN HIGHLY FRACTURED BEDROCK ZONES, MAKING GROUND WATER CHARACTERIZATION DIFFICULT. FUTURE USES OF GROUND WATER AS A DRINKING WATER SOURCE MAY INCREASE IF THE POPULATION UTILIZING GROUND WATER WELLS INCREASES. HOWEVER, THE TYPES OF GROUND WATER USE WITHIN THE STUDY AREA ARE NOT EXPECTED TO CHANGE IN THE FUTURE.

A RECORD OF DECISION ADDRESSING OU 4 WAS COMPLETED IN SEPTEMBER 2004.

WHILE NOT DIRECTLY ADDRESSED BY THE OUS 3 AND 4 RODS, CDPHE AND EPA HAD BEEN CONSIDERING THE OPTION OF CONSTRUCTING A MINE WASTE REPOSITORY TO BE USED FOR RELOCATING MINE WASTE PILE MATERIAL AND WATER TREATMENT PLANT SOLIDS GENERATED BY CENTRAL CITY/CLEAR CREEK CERCLA RESPONSE PROJECTS SUCH AS THE ARGO TUNNEL TREATMENT PLANT IN IDAHO SPRINGS. THE OU 4 ROD DISCUSSES THE OPTION OF RELOCATING WASTE

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PILES AND WATER TREATMENT SOLIDS TO AN ON-SITE REPOSITORY AS PART OF THE SELECTED REMEDIAL OPTION, BUT THE ROD DOES NOT EXPLICITLY INCLUDE CONSTRUCTION OF A REPOSITORY AS A SELECTED REMEDIAL ACTION COMPONENT. THE CDPHE AND EPA NOW ADD THE REPOSITORY COMPONENT TO THE PREVIOUSLY SELECTED REMEDIES TO PROVIDE AN ADDITIONAL PROTECTIVE, EFFICIENT AND EFFECTIVE WAY OF ADDRESSING MINE WASTES AND DISPOSING OF WATER TREATMENT PLANT SOLIDS.

A ROD AMENDMENT ADDRESSING OU 4 AND OU 3 WAS COMPLETED IN SEPTEMBER OF 2006.

SITE HISTORY - NO SITE HISTORY INFORMATION AVAILABLE -

ACTIONS

TYPE: RD - REMEDIAL DESIGN

START DATE: 03/13/2012

COMPLETION DATE: NR

ACTION TYPE DEFINITION:

THE PROCESS OF FULLY DETAILING AND SPECIFYING THE SELECTED REMEDY IDENTIFIED IN THE ROD OR EDD.

TYPE: RD - REMEDIAL DESIGN

START DATE: 03/13/2012

COMPLETION DATE: NR

ACTION TYPE DEFINITION:

THE PROCESS OF FULLY DETAILING AND SPECIFYING THE SELECTED REMEDY IDENTIFIED IN THE ROD OR EDD.

TYPE: RA - REMEDIAL ACTION - LONG TERM ACTION

START DATE: 02/23/2012

COMPLETION DATE: NR

ACTION TYPE DEFINITION:

THE IMPLEMENTATION OF A PERMANENT RESOLUTION TO ADDRESS A RELEASE OR POTENTIAL RELEASE OF A HAZARDOUS SUBSTANCE FROM A SITE.

TYPE: RV - REMOVAL - EMERGENCY

START DATE: 10/15/2011

COMPLETION DATE: 11/15/2011

ACTION TYPE DEFINITION:

RESPONSE ACTION THAT REQUIRES EXPEDITIOUS ATTENTION TO REDUCE IMMINENT AND SUBSTANTIAL DANGERS TO HUMAN HEALTH, WELFARE, OR THE ENVIRONMENT OR AN EMERGENCY RESPONSE REQUIRED WITHIN HOURS OR DAYS TO ADDRESS ACUTE SITUATIONS INVOLVING ACTUAL OR POTENTIAL THREAT TO HUMAN HEALTH, THE ENVIRONMENT, OR REAL OR PERSONAL PROPERTY DUE TO THE RELEASE OF A HAZARDOUS SUBSTANCE. CHARACTERIZATION OF A REMOVAL ACTION AS REMOVAL, NOT IMMEDIATE REMOVAL OR PLANNED REMOVAL, STARTED AT THE BEGINNING OF FY 1987. THIS CODE NOW TAKES THE PLACE OF IMMEDIATE REMOVAL (IR) AND PLANNED REMOVAL (PR).

TYPE: RV - REMOVAL - EMERGENCY

START DATE: 10/15/2011

COMPLETION DATE: 11/15/2011

ACTION TYPE DEFINITION:

RESPONSE ACTION THAT REQUIRES EXPEDITIOUS ATTENTION TO REDUCE IMMINENT AND SUBSTANTIAL DANGERS TO HUMAN HEALTH, WELFARE, OR THE ENVIRONMENT OR AN EMERGENCY RESPONSE REQUIRED WITHIN HOURS OR DAYS TO ADDRESS ACUTE SITUATIONS INVOLVING ACTUAL OR POTENTIAL THREAT TO HUMAN HEALTH, THE ENVIRONMENT, OR REAL OR PERSONAL PROPERTY DUE TO THE RELEASE OF A HAZARDOUS SUBSTANCE. CHARACTERIZATION OF A REMOVAL ACTION AS REMOVAL, NOT IMMEDIATE REMOVAL OR PLANNED REMOVAL, STARTED AT THE BEGINNING OF FY 1987. THIS CODE NOW TAKES THE PLACE OF IMMEDIATE REMOVAL (IR) AND PLANNED REMOVAL (PR).

TYPE: TA - TECHNICAL ASSISTANCE

START DATE: 07/11/2011

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COMPLETION DATE: NR

ACTION TYPE DEFINITION:

PARTICIPATION IN THE CONDUCT OF FUND-FINANCED REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS).

TYPE: **SV - SECTION 107 LITIGATION**

START DATE: **11/29/2010**

COMPLETION DATE: **12/21/2010**

ACTION TYPE DEFINITION:

JUDICIAL REFERRAL UNDER S107 TO RECOVERY FROM POTENTIALLY RESPONSIBLE PARTIES (PRPS).

TYPE: **CB - CLAIM IN BANKRUPTCY PROCEEDING**

START DATE: **11/29/2010**

COMPLETION DATE: **12/21/2010**

ACTION TYPE DEFINITION:

LEGAL ACTION PERFORMED BY EPA REGIONAL ATTORNEYS TO ESTABLISH EPA AS A CREDITOR WHEN POTENTIALLY RESPONSIBLE PARTY (PRP) HAS FILED FOR BANKRUPTCY.

TYPE: **RV - REMOVAL - TIME CRITICAL**

START DATE: **06/15/2010**

COMPLETION DATE: **09/15/2010**

ACTION TYPE DEFINITION:

RESPONSE ACTION THAT REQUIRES EXPEDITIOUS ATTENTION TO REDUCE IMMINENT AND SUBSTANTIAL DANGERS TO HUMAN HEALTH, WELFARE, OR THE ENVIRONMENT OR AN EMERGENCY RESPONSE REQUIRED WITHIN HOURS OR DAYS TO ADDRESS ACUTE SITUATIONS INVOLVING ACTUAL OR POTENTIAL THREAT TO HUMAN HEALTH, THE ENVIRONMENT, OR REAL OR PERSONAL PROPERTY DUE TO THE RELEASE OF A HAZARDOUS SUBSTANCE. CHARACTERIZATION OF A REMOVAL ACTION AS REMOVAL, NOT IMMEDIATE REMOVAL OR PLANNED REMOVAL, STARTED AT THE BEGINNING OF FY 1987. THIS CODE NOW TAKES THE PLACE OF IMMEDIATE REMOVAL (IR) AND PLANNED REMOVAL (PR).

TYPE: **RD - REMEDIAL DESIGN**

START DATE: **04/12/2010**

COMPLETION DATE: **06/26/2012**

ACTION TYPE DEFINITION:

THE PROCESS OF FULLY DETAILING AND SPECIFYING THE SELECTED REMEDY IDENTIFIED IN THE ROD OR EDD.

TYPE: **RS - REMOVAL ASSESSMENT**

START DATE: **04/15/2009**

COMPLETION DATE: **06/15/2010**

ACTION TYPE DEFINITION:

COLLECTING SITE CHARACTERISTICS TO DETERMINE WHETHER OR NOT A REMOVAL MUST BE PERFORMED.

TYPE: **SF - SECTION 104(E) REF LITIGATION**

START DATE: **07/18/2008**

COMPLETION DATE: **09/28/2012**

ACTION TYPE DEFINITION:

ALL SECTION 104(E) REFERRALS WITHOUT SETTLEMENT REFERRED TO DOJ/OECM. THE REFERRAL CAN BE FOR INFORMATION, SITE ACCESS, OR ENFORCEMENT OF A S104(E) ORDER.

TYPE: **RA - REMEDIAL ACTION**

START DATE: **06/02/2008**

COMPLETION DATE: **NR**

ACTION TYPE DEFINITION:

THE IMPLEMENTATION OF A PERMANENT RESOLUTION TO ADDRESS A RELEASE OR POTENTIAL RELEASE OF A HAZARDOUS SUBSTANCE FROM A SITE.

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TYPE: RV - REMOVAL - TIME CRITICAL

START DATE: 05/05/2008

COMPLETION DATE: 09/19/2008

ACTION TYPE DEFINITION:

RESPONSE ACTION THAT REQUIRES EXPEDITIOUS ATTENTION TO REDUCE IMMINENT AND SUBSTANTIAL DANGERS TO HUMAN HEALTH, WELFARE, OR THE ENVIRONMENT OR AN EMERGENCY RESPONSE REQUIRED WITHIN HOURS OR DAYS TO ADDRESS ACUTE SITUATIONS INVOLVING ACTUAL OR POTENTIAL THREAT TO HUMAN HEALTH, THE ENVIRONMENT, OR REAL OR PERSONAL PROPERTY DUE TO THE RELEASE OF A HAZARDOUS SUBSTANCE. CHARACTERIZATION OF A REMOVAL ACTION AS REMOVAL, NOT IMMEDIATE REMOVAL OR PLANNED REMOVAL, STARTED AT THE BEGINNING OF FY 1987. THIS CODE NOW TAKES THE PLACE OF IMMEDIATE REMOVAL (IR) AND PLANNED REMOVAL (PR).

TYPE: RA - REMEDIAL ACTION

START DATE: 04/07/2008

COMPLETION DATE: NR

ACTION TYPE DEFINITION:

THE IMPLEMENTATION OF A PERMANENT RESOLUTION TO ADDRESS A RELEASE OR POTENTIAL RELEASE OF A HAZARDOUS SUBSTANCE FROM A SITE.

TYPE: LT - LITIGATION (GENERIC)

START DATE: 08/08/2007

COMPLETION DATE: 08/22/2007

ACTION TYPE DEFINITION:

THIS ACTIVITY IS USED TO CODE REFERRALS FOR LITIGATION THAT COVER ANY COMBINATION OF REMEDIES OR STATUTES (CERCLA, SARA, RCRA) NOT REFLECTED IN THE CONVENTIONAL ACTIVITY TYPES OF SX (SECTION 106), SV (SECTION 107), CL (COMBINED 106/107), AND SF (SECTION 104). IF PREFERRED, THIS ACTIVITY CAN BE USED TO CODE ALL REFERRAL TYPES INSTEAD OF USING THE CONVENTIONAL SX, SV, CL, SF CODES. BECAUSE THIS ACTIVITY IS GENERIC, CODING THE STATUTES (STATUTE) AND THE REMEDY TYPES (REMEDY) CORRECTLY IS MANDATORY. ALL OTHER EDIT CHECKS AND CODING REQUIREMENTS THAT APPLY TO SX, SV, CL, AND SF APPLY TO LT AS WELL. EXAMPLES: ACTION=LT, STATUTE=106, REMEDY=RA IS EQUIVALENT TO SX; ACTION=LT, STATUTE=107, REMEDY=VA IS EQUIVALENT TO SV; ACTION=LT, STATUTE=106,107, REMEDY=VD, RA IS EQUIVALENT TO CL; ACTION=LT, STATUTE=104, REMEDY=SE, DE IS EQUIVALENT TO SF; ACTION=LT, STATUTE=104,107,106, REMEDY=DE, VM, RD, RA, IS A COMBINATION NOT COVERED BY SX, SV, CL, SF.

TYPE: FE - FIVE-YEAR REVIEW

START DATE: 05/01/2007

COMPLETION DATE: 09/29/2009

ACTION TYPE DEFINITION:

A REVIEW THAT IS CONDUCTED AT A MINIMUM OF EVERY FIVE YEARS TO DETERMINE IF THE IMPLEMENTATION AND PERFORMANCE OF A REMEDY IS PROTECTIVE OR WILL BE PROTECTIVE OF HUMAN HEALTH AND THE ENVIRONMENT.

TYPE: CD - CONSENT DECREE

START DATE: 03/13/2007

COMPLETION DATE: 05/21/2007

ACTION TYPE DEFINITION:

JUDICIAL AGREEMENT BETWEEN THE FEDERAL GOVERNMENT AND THE POTENTIALLY RESPONSIBLE PARTIES (PRPS) FULLY OR PARTIALLY SETTLING A CLAIM UNDER CERCLA. THIS AGREEMENT MAY SETTLE LITIGATION OR MAY BE PRESENTED CONCURRENTLY WITH THE COMPLAINT (ACHIEVED THROUGH NEGOTIATIONS). THE AGREEMENT MAY BE FOR RESPONSE WORK, COST RECOVERY, OR BOTH.

TYPE: RA - REMEDIAL ACTION - LONG TERM ACTION

START DATE: 09/28/2006

National Priorities List (NPL)

COMPLETION DATE: **09/25/2008**

ACTION TYPE DEFINITION:

THE IMPLEMENTATION OF A PERMANENT RESOLUTION TO ADDRESS A RELEASE OR POTENTIAL RELEASE OF A HAZARDOUS SUBSTANCE FROM A SITE.

TYPE: **RA - REMEDIAL ACTION**

START DATE: **09/28/2006**

COMPLETION DATE: **06/14/2011**

ACTION TYPE DEFINITION:

THE IMPLEMENTATION OF A PERMANENT RESOLUTION TO ADDRESS A RELEASE OR POTENTIAL RELEASE OF A HAZARDOUS SUBSTANCE FROM A SITE.

TYPE: **RA - REMEDIAL ACTION**

START DATE: **09/28/2006**

COMPLETION DATE: **NR**

ACTION TYPE DEFINITION:

THE IMPLEMENTATION OF A PERMANENT RESOLUTION TO ADDRESS A RELEASE OR POTENTIAL RELEASE OF A HAZARDOUS SUBSTANCE FROM A SITE.

TYPE: **RA - REMEDIAL ACTION**

START DATE: **09/28/2006**

COMPLETION DATE: **02/26/2009**

ACTION TYPE DEFINITION:

THE IMPLEMENTATION OF A PERMANENT RESOLUTION TO ADDRESS A RELEASE OR POTENTIAL RELEASE OF A HAZARDOUS SUBSTANCE FROM A SITE.

TYPE: **RA - REMEDIAL ACTION**

START DATE: **09/28/2006**

COMPLETION DATE: **04/29/2010**

ACTION TYPE DEFINITION:

THE IMPLEMENTATION OF A PERMANENT RESOLUTION TO ADDRESS A RELEASE OR POTENTIAL RELEASE OF A HAZARDOUS SUBSTANCE FROM A SITE.

TYPE: **RS - REMOVAL ASSESSMENT**

START DATE: **07/19/2006**

COMPLETION DATE: **08/29/2006**

ACTION TYPE DEFINITION:

COLLECTING SITE CHARACTERISTICS TO DETERMINE WHETHER OR NOT A REMOVAL MUST BE PERFORMED.

TYPE: **PJ - POTENTIALLY RESPONSIBLE PARTY EMERGENCY REMOVAL - TIME CRITICAL**

START DATE: **07/17/2006**

COMPLETION DATE: **08/29/2006**

ACTION TYPE DEFINITION:

THE PRP OR THEIR CONTRACTORS HAVE BEGUN CONSTRUCTION WORK ON-SITE IN RESPONSE TO AN EMERGENCY INCIDENT, AND EPA PROVIDES ON-SITE TECHNICAL OVERSIGHT AND/OR IS PART OF AN INCIDENT COMMAND SYSTEM/UNIFIED COMMAND. THE DATE OF CONSTRUCTION IS REPORTED IN WASTELAN AS THE PRP EMERGENCY REMOVAL ACTUAL START DATE.

TYPE: **NS - NATIONAL PRIORITIES LIST RESPONSIBLE PARTY SEARCH**

START DATE: **04/26/2006**

COMPLETION DATE: **03/20/2009**

ACTION TYPE DEFINITION:

THE NATIONAL PRIORITY LIST (NPL) POTENTIALLY RESPONSIBLE PARTY (PRP) SEARCH IS USED TO IDENTIFY PRPS AT A

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FINAL NPL OR PROPOSED NPL SITE. ACTIONS TYPICALLY INCLUDE TITLE SEARCH, FINANCIAL ASSESSMENTS, AND REVIEW OF APPLICABLE RECORDS. THE NPL PRP SEARCH SHOULD BEGIN UPON COMPLETION OF THE SCREENING SITE INVESTIGATION AND SHOULD BE CONDUCTED CONCURRENT WITH THE NATIONAL PRIORITIES LISTING PROCESS.

TYPE: NS - NATIONAL PRIORITIES LIST RESPONSIBLE PARTY SEARCH

START DATE: 11/19/2005

COMPLETION DATE: 05/23/2006

ACTION TYPE DEFINITION:

THE NATIONAL PRIORITY LIST (NPL) POTENTIALLY RESPONSIBLE PARTY (PRP) SEARCH IS USED TO IDENTIFY PRPS AT A FINAL NPL OR PROPOSED NPL SITE. ACTIONS TYPICALLY INCLUDE TITLE SEARCH, FINANCIAL ASSESSMENTS, AND REVIEW OF APPLICABLE RECORDS. THE NPL PRP SEARCH SHOULD BEGIN UPON COMPLETION OF THE SCREENING SITE INVESTIGATION AND SHOULD BE CONDUCTED CONCURRENT WITH THE NATIONAL PRIORITIES LISTING PROCESS.

TYPE: RA - REMEDIAL ACTION - LONG TERM ACTION

START DATE: 08/04/2005

COMPLETION DATE: 09/28/2005

ACTION TYPE DEFINITION:

THE IMPLEMENTATION OF A PERMANENT RESOLUTION TO ADDRESS A RELEASE OR POTENTIAL RELEASE OF A HAZARDOUS SUBSTANCE FROM A SITE.

TYPE: RA - REMEDIAL ACTION - LONG TERM ACTION

START DATE: 05/17/2005

COMPLETION DATE: 03/31/2006

ACTION TYPE DEFINITION:

THE IMPLEMENTATION OF A PERMANENT RESOLUTION TO ADDRESS A RELEASE OR POTENTIAL RELEASE OF A HAZARDOUS SUBSTANCE FROM A SITE.

TYPE: RA - REMEDIAL ACTION

START DATE: 05/17/2005

COMPLETION DATE: 03/31/2006

ACTION TYPE DEFINITION:

THE IMPLEMENTATION OF A PERMANENT RESOLUTION TO ADDRESS A RELEASE OR POTENTIAL RELEASE OF A HAZARDOUS SUBSTANCE FROM A SITE.

TYPE: NS - NATIONAL PRIORITIES LIST RESPONSIBLE PARTY SEARCH

START DATE: 05/10/2005

COMPLETION DATE: 07/27/2006

ACTION TYPE DEFINITION:

THE NATIONAL PRIORITY LIST (NPL) POTENTIALLY RESPONSIBLE PARTY (PRP) SEARCH IS USED TO IDENTIFY PRPS AT A FINAL NPL OR PROPOSED NPL SITE. ACTIONS TYPICALLY INCLUDE TITLE SEARCH, FINANCIAL ASSESSMENTS, AND REVIEW OF APPLICABLE RECORDS. THE NPL PRP SEARCH SHOULD BEGIN UPON COMPLETION OF THE SCREENING SITE INVESTIGATION AND SHOULD BE CONDUCTED CONCURRENT WITH THE NATIONAL PRIORITIES LISTING PROCESS.

TYPE: RD - REMEDIAL DESIGN

START DATE: 04/01/2005

COMPLETION DATE: 09/29/2006

ACTION TYPE DEFINITION:

THE PROCESS OF FULLY DETAILING AND SPECIFYING THE SELECTED REMEDY IDENTIFIED IN THE ROD OR EDD.

TYPE: RD - REMEDIAL DESIGN

START DATE: 04/01/2005

COMPLETION DATE: 08/21/2009

ACTION TYPE DEFINITION:

National Priorities List (NPL)

THE PROCESS OF FULLY DETAILING AND SPECIFYING THE SELECTED REMEDY IDENTIFIED IN THE ROD OR EDD.

TYPE: **RD - REMEDIAL DESIGN**

START DATE: **04/01/2005**

COMPLETION DATE: **09/27/2012**

ACTION TYPE DEFINITION:

THE PROCESS OF FULLY DETAILING AND SPECIFYING THE SELECTED REMEDY IDENTIFIED IN THE ROD OR EDD.

TYPE: **RD - REMEDIAL DESIGN**

START DATE: **04/01/2005**

COMPLETION DATE: **03/31/2011**

ACTION TYPE DEFINITION:

THE PROCESS OF FULLY DETAILING AND SPECIFYING THE SELECTED REMEDY IDENTIFIED IN THE ROD OR EDD.

TYPE: **SV - SECTION 107 LITIGATION**

START DATE: **09/28/2004**

COMPLETION DATE: **05/21/2007**

ACTION TYPE DEFINITION:

JUDICIAL REFERRAL UNDER S107 TO RECOVERY FROM POTENTIALLY RESPONSIBLE PARTIES (PRPS).

TYPE: **BB - POTENTIALLY RESPONSIBLE PARTY REMOVAL - TIME CRITICAL**

START DATE: **07/22/2004**

COMPLETION DATE: **01/05/2006**

ACTION TYPE DEFINITION:

PROVIDES FOR OVERSIGHT OF POTENTIALLY RESPONSIBLE PARTY (PRP) RESPONSE ACTION FOR REMOVALS, INCLUDING ALL ACTIVITIES FOR MONITORING AND SUPERVISING THE PERFORMANCE OF PRPS TO DETERMINE WHETHER SUCH PERFORMANCE IS CONSISTENT WITH THE REQUIREMENTS OF THE ADMINISTRATIVE ORDERS ON CONSENT, UNILATERAL ADMINISTRATIVE ORDERS, CONSENT DECREES, JUDICIAL DECREES, INFORMATION AGREEMENTS, AND COMPLIANCE SCHEDULES.

TYPE: **RV - REMOVAL - EMERGENCY**

START DATE: **07/20/2004**

COMPLETION DATE: **04/04/2006**

ACTION TYPE DEFINITION:

RESPONSE ACTION THAT REQUIRES EXPEDITIOUS ATTENTION TO REDUCE IMMINENT AND SUBSTANTIAL DANGERS TO HUMAN HEALTH, WELFARE, OR THE ENVIRONMENT OR AN EMERGENCY RESPONSE REQUIRED WITHIN HOURS OR DAYS TO ADDRESS ACUTE SITUATIONS INVOLVING ACTUAL OR POTENTIAL THREAT TO HUMAN HEALTH, THE ENVIRONMENT, OR REAL OR PERSONAL PROPERTY DUE TO THE RELEASE OF A HAZARDOUS SUBSTANCE. CHARACTERIZATION OF A REMOVAL ACTION AS REMOVAL, NOT IMMEDIATE REMOVAL OR PLANNED REMOVAL, STARTED AT THE BEGINNING OF FY 1987. THIS CODE NOW TAKES THE PLACE OF IMMEDIATE REMOVAL (IR) AND PLANNED REMOVAL (PR).

TYPE: **FE - FIVE-YEAR REVIEW**

START DATE: **04/28/2004**

COMPLETION DATE: **09/29/2004**

ACTION TYPE DEFINITION:

A REVIEW THAT IS CONDUCTED AT A MINIMUM OF EVERY FIVE YEARS TO DETERMINE IF THE IMPLEMENTATION AND PERFORMANCE OF A REMEDY IS PROTECTIVE OR WILL BE PROTECTIVE OF HUMAN HEALTH AND THE ENVIRONMENT.

TYPE: **JF - ECOLOGICAL RISK ASSESSMENT**

START DATE: **07/28/2000**

COMPLETION DATE: **11/14/2001**

ACTION TYPE DEFINITION:

ASSESSMENT OF THE BASELINE RISKS POSED BY THE SITE TO ECOLOGICAL RECEPTORS.

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TYPE: **CO - COMBINED REMEDIAL INVESTIGATION/FEASIBILITY STUDY**

START DATE: **12/29/1999**

COMPLETION DATE: **09/29/2004**

ACTION TYPE DEFINITION:

THE PROCESS OF DATA COLLECTION AND ANALYSES OF THE SITE PROBLEM, IDENTIFICATION OF PRELIMINARY REMEDIAL ALTERNATIVES, AND RECOMMENDATION OF A COST-EFFECTIVE REMEDY. THERE CAN BE MULTIPLE REMEDIAL INVESTIGATION/FEASIBILITY STUDIES (RI/FS) CONDUCTED AT A SITE.

TYPE: **RA - REMEDIAL ACTION - LONG TERM ACTION**

START DATE: **12/20/1999**

COMPLETION DATE: **05/22/2003**

ACTION TYPE DEFINITION:

THE IMPLEMENTATION OF A PERMANENT RESOLUTION TO ADDRESS A RELEASE OR POTENTIAL RELEASE OF A HAZARDOUS SUBSTANCE FROM A SITE.

TYPE: **NS - NATIONAL PRIORITIES LIST RESPONSIBLE PARTY SEARCH**

START DATE: **10/13/1999**

COMPLETION DATE: **11/03/1999**

ACTION TYPE DEFINITION:

THE NATIONAL PRIORITY LIST (NPL) POTENTIALLY RESPONSIBLE PARTY (PRP) SEARCH IS USED TO IDENTIFY PRPS AT A FINAL NPL OR PROPOSED NPL SITE. ACTIONS TYPICALLY INCLUDE TITLE SEARCH, FINANCIAL ASSESSMENTS, AND REVIEW OF APPLICABLE RECORDS. THE NPL PRP SEARCH SHOULD BEGIN UPON COMPLETION OF THE SCREENING SITE INVESTIGATION AND SHOULD BE CONDUCTED CONCURRENT WITH THE NATIONAL PRIORITIES LISTING PROCESS.

TYPE: **LR - LONG TERM RESPONSE ACTION**

START DATE: **09/28/1999**

COMPLETION DATE: **09/30/2009**

ACTION TYPE DEFINITION:

SITE REQUIREMENTS ASSOCIATED WITH A REMEDY THAT MUST BE PERFORMED AFTER COMPLETION OF A REMEDIAL ACTION.

TYPE: **QX - PROSPECTIVE PURCHASER AGREEMENT ASSESSMENT**

START DATE: **06/17/1999**

COMPLETION DATE: **01/14/2000**

ACTION TYPE DEFINITION:

EPA REVIEWS A FORMAL REQUEST FOR A PROSPECTIVE PURCHASER AGREEMENT (PPA), RESULTING IN A DECISION TO GRANT OR DENY THE REQUEST.

TYPE: **CL - SECTION 106 107 LITIGATION**

START DATE: **05/26/1999**

COMPLETION DATE: **03/10/2000**

ACTION TYPE DEFINITION:

REFERRAL TO OECM OR DOJ, WITHOUT SETTLEMENT, OF A CIVIL ACTION ADDRESSING A SITE UNDER SECTIONS 106 AND 107 OF CERCLA.

TYPE: **CL - SECTION 106 107 LITIGATION**

START DATE: **05/26/1999**

COMPLETION DATE: **01/14/2000**

ACTION TYPE DEFINITION:

REFERRAL TO OECM OR DOJ, WITHOUT SETTLEMENT, OF A CIVIL ACTION ADDRESSING A SITE UNDER SECTIONS 106 AND 107 OF CERCLA.

TYPE: **BF - POTENTIALLY RESPONSIBLE PARTY REMEDIAL ACTION - LONG TERM ACTION**

National Priorities List (NPL)

START DATE: 01/28/1999

COMPLETION DATE: 08/25/2000

ACTION TYPE DEFINITION:

PROVIDES FOR OVERSIGHT OF POTENTIALLY RESPONSIBLE PARTY (PRP) RESPONSE ACTION FOR REMEDIAL ACTION (RA), INCLUDING ALL ACTIVITIES FOR MONITORING AND SUPERVISING THE PERFORMANCE OF THE RESPONSIBLE PARTIES TO DETERMINE WHETHER SUCH PERFORMANCE IS CONSISTENT WITH THE REQUIREMENTS OF THE ADMINISTRATIVE ORDERS ON CONSENT, UNILATERAL ADMINISTRATIVE ORDERS, CONSENT DECREES, JUDICIAL DECREES, INFORMATION AGREEMENTS, AND COMPLIANCE SCHEDULES.

TYPE: FE - FIVE-YEAR REVIEW

START DATE: 12/02/1998

COMPLETION DATE: 03/26/1999

ACTION TYPE DEFINITION:

A REVIEW THAT IS CONDUCTED AT A MINIMUM OF EVERY FIVE YEARS TO DETERMINE IF THE IMPLEMENTATION AND PERFORMANCE OF A REMEDY IS PROTECTIVE OR WILL BE PROTECTIVE OF HUMAN HEALTH AND THE ENVIRONMENT.

TYPE: OF - OPERATIONAL & FUNCTIONAL

START DATE: 12/01/1998

COMPLETION DATE: 09/28/1999

ACTION TYPE DEFINITION:

MEASURES TAKEN TO ENSURE THAT THE REMEDY IS FUNCTIONING PROPERLY AND IS PERFORMING AS DESIGNED. EPA WILL FUND UP TO ONE YEAR OF OF OR UP TO TEN YEARS OF OF IF THE REMEDY INVOLVES RESTORATION OF GROUND OR SURFACE WATER.

TYPE: RV - REMOVAL - TIME CRITICAL

START DATE: 09/21/1998

COMPLETION DATE: 12/14/1998

ACTION TYPE DEFINITION:

RESPONSE ACTION THAT REQUIRES EXPEDITIOUS ATTENTION TO REDUCE IMMINENT AND SUBSTANTIAL DANGERS TO HUMAN HEALTH, WELFARE, OR THE ENVIRONMENT OR AN EMERGENCY RESPONSE REQUIRED WITHIN HOURS OR DAYS TO ADDRESS ACUTE SITUATIONS INVOLVING ACTUAL OR POTENTIAL THREAT TO HUMAN HEALTH, THE ENVIRONMENT, OR REAL OR PERSONAL PROPERTY DUE TO THE RELEASE OF A HAZARDOUS SUBSTANCE. CHARACTERIZATION OF A REMOVAL ACTION AS REMOVAL, NOT IMMEDIATE REMOVAL OR PLANNED REMOVAL, STARTED AT THE BEGINNING OF FY 1987. THIS CODE NOW TAKES THE PLACE OF IMMEDIATE REMOVAL (IR) AND PLANNED REMOVAL (PR).

TYPE: BF - POTENTIALLY RESPONSIBLE PARTY REMEDIAL ACTION

START DATE: 09/17/1998

COMPLETION DATE: 01/27/2000

ACTION TYPE DEFINITION:

PROVIDES FOR OVERSIGHT OF POTENTIALLY RESPONSIBLE PARTY (PRP) RESPONSE ACTION FOR REMEDIAL ACTION (RA), INCLUDING ALL ACTIVITIES FOR MONITORING AND SUPERVISING THE PERFORMANCE OF THE RESPONSIBLE PARTIES TO DETERMINE WHETHER SUCH PERFORMANCE IS CONSISTENT WITH THE REQUIREMENTS OF THE ADMINISTRATIVE ORDERS ON CONSENT, UNILATERAL ADMINISTRATIVE ORDERS, CONSENT DECREES, JUDICIAL DECREES, INFORMATION AGREEMENTS, AND COMPLIANCE SCHEDULES.

TYPE: BF - POTENTIALLY RESPONSIBLE PARTY REMEDIAL ACTION - LONG TERM ACTION

START DATE: 05/22/1998

COMPLETION DATE: 03/29/1999

ACTION TYPE DEFINITION:

PROVIDES FOR OVERSIGHT OF POTENTIALLY RESPONSIBLE PARTY (PRP) RESPONSE ACTION FOR REMEDIAL ACTION (RA), INCLUDING ALL ACTIVITIES FOR MONITORING AND SUPERVISING THE PERFORMANCE OF THE RESPONSIBLE PARTIES TO

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DETERMINE WHETHER SUCH PERFORMANCE IS CONSISTENT WITH THE REQUIREMENTS OF THE ADMINISTRATIVE ORDERS ON CONSENT, UNILATERAL ADMINISTRATIVE ORDERS, CONSENT DECREES, JUDICIAL DECREES, INFORMATION AGREEMENTS, AND COMPLIANCE SCHEDULES.

TYPE: **BF - POTENTIALLY RESPONSIBLE PARTY REMEDIAL ACTION**

START DATE: **05/21/1998**

COMPLETION DATE: **09/24/1998**

ACTION TYPE DEFINITION:

PROVIDES FOR OVERSIGHT OF POTENTIALLY RESPONSIBLE PARTY (PRP) RESPONSE ACTION FOR REMEDIAL ACTION (RA), INCLUDING ALL ACTIVITIES FOR MONITORING AND SUPERVISING THE PERFORMANCE OF THE RESPONSIBLE PARTIES TO DETERMINE WHETHER SUCH PERFORMANCE IS CONSISTENT WITH THE REQUIREMENTS OF THE ADMINISTRATIVE ORDERS ON CONSENT, UNILATERAL ADMINISTRATIVE ORDERS, CONSENT DECREES, JUDICIAL DECREES, INFORMATION AGREEMENTS, AND COMPLIANCE SCHEDULES.

TYPE: **BF - POTENTIALLY RESPONSIBLE PARTY REMEDIAL ACTION - LONG TERM ACTION**

START DATE: **11/17/1997**

COMPLETION DATE: **09/28/1999**

ACTION TYPE DEFINITION:

PROVIDES FOR OVERSIGHT OF POTENTIALLY RESPONSIBLE PARTY (PRP) RESPONSE ACTION FOR REMEDIAL ACTION (RA), INCLUDING ALL ACTIVITIES FOR MONITORING AND SUPERVISING THE PERFORMANCE OF THE RESPONSIBLE PARTIES TO DETERMINE WHETHER SUCH PERFORMANCE IS CONSISTENT WITH THE REQUIREMENTS OF THE ADMINISTRATIVE ORDERS ON CONSENT, UNILATERAL ADMINISTRATIVE ORDERS, CONSENT DECREES, JUDICIAL DECREES, INFORMATION AGREEMENTS, AND COMPLIANCE SCHEDULES.

TYPE: **RA - REMEDIAL ACTION**

START DATE: **09/15/1997**

COMPLETION DATE: **08/25/2000**

ACTION TYPE DEFINITION:

THE IMPLEMENTATION OF A PERMANENT RESOLUTION TO ADDRESS A RELEASE OR POTENTIAL RELEASE OF A HAZARDOUS SUBSTANCE FROM A SITE.

TYPE: **AN - REMEDIAL DESIGN/REMEDIAL ACTION NEGOTIATIONS**

START DATE: **06/25/1997**

COMPLETION DATE: **09/19/1997**

ACTION TYPE DEFINITION:

DISCUSSIONS AND INFORMATION EXCHANGE BETWEEN POTENTIALLY RESPONSIBLE PARTIES (PRPS) AND EPA (OR STATE) OVER THE LIABILITY OF THE PRP, WILLINGNESS, AND ABILITY TO CONDUCT THE REMEDIAL DESIGN AND/OR THE REMEDIAL ACTION AS IDENTIFIED IN THE RECORD OF DECISION (ROD).

TYPE: **TA - TECHNICAL ASSISTANCE**

START DATE: **06/05/1997**

COMPLETION DATE: **09/30/2002**

ACTION TYPE DEFINITION:

PARTICIPATION IN THE CONDUCT OF FUND-FINANCED REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS).

TYPE: **BB - POTENTIALLY RESPONSIBLE PARTY REMOVAL - TIME CRITICAL**

START DATE: **09/21/1996**

COMPLETION DATE: **11/10/1996**

ACTION TYPE DEFINITION:

PROVIDES FOR OVERSIGHT OF POTENTIALLY RESPONSIBLE PARTY (PRP) RESPONSE ACTION FOR REMOVALS, INCLUDING ALL ACTIVITIES FOR MONITORING AND SUPERVISING THE PERFORMANCE OF PRPS TO DETERMINE WHETHER SUCH PERFORMANCE IS CONSISTENT WITH THE REQUIREMENTS OF THE ADMINISTRATIVE ORDERS ON CONSENT, UNILATERAL

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ADMINISTRATIVE ORDERS, CONSENT DECREES, JUDICIAL DECREES, INFORMATION AGREEMENTS, AND COMPLIANCE SCHEDULES.

TYPE: CD - CONSENT DECREE

START DATE: 09/10/1996

COMPLETION DATE: 06/03/1997

ACTION TYPE DEFINITION:

JUDICIAL AGREEMENT BETWEEN THE FEDERAL GOVERNMENT AND THE POTENTIALLY RESPONSIBLE PARTIES (PRPS) FULLY OR PARTIALLY SETTling A CLAIM UNDER CERCLA. THIS AGREEMENT MAY SETTLE LITIGATION OR MAY BE PRESENTED CONCURRENTLY WITH THE COMPLAINT (ACHIEVED THROUGH NEGOTIATIONS). THE AGREEMENT MAY BE FOR RESPONSE WORK, COST RECOVERY, OR BOTH.

TYPE: RV - REMOVAL - NON-TIME CRITICAL

START DATE: 08/12/1996

COMPLETION DATE: 11/12/1996

ACTION TYPE DEFINITION:

RESPONSE ACTION THAT REQUIRES EXPEDITIOUS ATTENTION TO REDUCE IMMINENT AND SUBSTANTIAL DANGERS TO HUMAN HEALTH, WELFARE, OR THE ENVIRONMENT OR AN EMERGENCY RESPONSE REQUIRED WITHIN HOURS OR DAYS TO ADDRESS ACUTE SITUATIONS INVOLVING ACTUAL OR POTENTIAL THREAT TO HUMAN HEALTH, THE ENVIRONMENT, OR REAL OR PERSONAL PROPERTY DUE TO THE RELEASE OF A HAZARDOUS SUBSTANCE. CHARACTERIZATION OF A REMOVAL ACTION AS REMOVAL, NOT IMMEDIATE REMOVAL OR PLANNED REMOVAL, STARTED AT THE BEGINNING OF FY 1987. THIS CODE NOW TAKES THE PLACE OF IMMEDIATE REMOVAL (IR) AND PLANNED REMOVAL (PR).

TYPE: TA - TECHNICAL ASSISTANCE

START DATE: 11/02/1995

COMPLETION DATE: 05/30/2003

ACTION TYPE DEFINITION:

PARTICIPATION IN THE CONDUCT OF FUND-FINANCED REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS).

TYPE: BB - POTENTIALLY RESPONSIBLE PARTY REMOVAL - TIME CRITICAL

START DATE: 10/30/1995

COMPLETION DATE: 04/19/1996

ACTION TYPE DEFINITION:

PROVIDES FOR OVERSIGHT OF POTENTIALLY RESPONSIBLE PARTY (PRP) RESPONSE ACTION FOR REMOVALS, INCLUDING ALL ACTIVITIES FOR MONITORING AND SUPERVISING THE PERFORMANCE OF PRPS TO DETERMINE WHETHER SUCH PERFORMANCE IS CONSISTENT WITH THE REQUIREMENTS OF THE ADMINISTRATIVE ORDERS ON CONSENT, UNILATERAL ADMINISTRATIVE ORDERS, CONSENT DECREES, JUDICIAL DECREES, INFORMATION AGREEMENTS, AND COMPLIANCE SCHEDULES.

TYPE: RD - REMEDIAL DESIGN

START DATE: 09/21/1995

COMPLETION DATE: 09/29/2006

ACTION TYPE DEFINITION:

THE PROCESS OF FULLY DETAILING AND SPECIFYING THE SELECTED REMEDY IDENTIFIED IN THE ROD OR EDD.

TYPE: RD - REMEDIAL DESIGN

START DATE: 09/21/1995

COMPLETION DATE: 08/12/2002

ACTION TYPE DEFINITION:

THE PROCESS OF FULLY DETAILING AND SPECIFYING THE SELECTED REMEDY IDENTIFIED IN THE ROD OR EDD.

TYPE: RD - REMEDIAL DESIGN

START DATE: 09/21/1995

National Priorities List (NPL)

COMPLETION DATE: 05/21/1999

ACTION TYPE DEFINITION:

THE PROCESS OF FULLY DETAILING AND SPECIFYING THE SELECTED REMEDY IDENTIFIED IN THE ROD OR EDD.

TYPE: **RN - REMOVAL NEGOTIATIONS**

START DATE: 08/28/1995

COMPLETION DATE: 08/21/1996

ACTION TYPE DEFINITION:

REMOVAL NEGOTIATIONS ARE DEFINED AS DISCUSSIONS BETWEEN EPA AND THE POTENTIALLY RESPONSIBLE PARTIES (PRPS) ON THE LIABILITY FOR AND CONDUCT OF A REMOVAL.

TYPE: **BB - POTENTIALLY RESPONSIBLE PARTY REMOVAL - TIME CRITICAL**

START DATE: 06/08/1995

COMPLETION DATE: 06/09/1995

ACTION TYPE DEFINITION:

PROVIDES FOR OVERSIGHT OF POTENTIALLY RESPONSIBLE PARTY (PRP) RESPONSE ACTION FOR REMOVALS, INCLUDING ALL ACTIVITIES FOR MONITORING AND SUPERVISING THE PERFORMANCE OF PRPS TO DETERMINE WHETHER SUCH PERFORMANCE IS CONSISTENT WITH THE REQUIREMENTS OF THE ADMINISTRATIVE ORDERS ON CONSENT, UNILATERAL ADMINISTRATIVE ORDERS, CONSENT DECREES, JUDICIAL DECREES, INFORMATION AGREEMENTS, AND COMPLIANCE SCHEDULES.

TYPE: **TA - TECHNICAL ASSISTANCE**

START DATE: 09/26/1994

COMPLETION DATE: 09/30/1999

ACTION TYPE DEFINITION:

PARTICIPATION IN THE CONDUCT OF FUND-FINANCED REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS).

TYPE: **TG - TECHNICAL ASSISTANCE GRANT**

START DATE: 09/23/1994

COMPLETION DATE: 05/18/2001

ACTION TYPE DEFINITION:

A GRANT OF UP TO \$50,000 PROVIDED UNDER SARA TO A COMMUNITY FOR TECHNICAL ASSISTANCE IN DEALING WITH SUPERFUND ISSUES AT A NATIONAL PRIORITY LIST (NPL) SITE.

TYPE: **NG - NEGOTIATION (GENERIC)**

START DATE: 08/10/1994

COMPLETION DATE: 06/08/1995

ACTION TYPE DEFINITION:

THIS ACTION IS USED TO CODE NEGOTIATIONS THAT COVER ANY COMBINATION OF REMEDIES OR STATUTES (CERCLA, SARA, RCRA) NOT REFLECTED IN THE CONVENTIONAL ACTIVITY TYPES OF AN (RD/RA NEGOTIATIONS), FN (RI/FS NEGOTIATIONS), RN (REMOVAL NEGOTIATIONS) AND NE (COST RECOVERY NEGOTIATIONS). IF PREFERRED, THIS ACTIVITY CAN BE USED TO CODE ALL NEGOTIATION TYPES INSTEAD OF USING THE CONVENTIONAL AN, FN, RN, AND NE CODES. BECAUSE THIS ACTIVITY IS GENERIC, CODING THE STATUTES AND THE REMEDY TYPES CORRECTLY IS MANDATORY. ALL OTHER EDIT CHECKS AND CODING REQUIREMENTS THAT APPLY TO AN, FN, RN, AND NE APPLY TO NG AS WELL. EXAMPLES: ACTION=NG, STATUTE=106,122, REMEDY=RA IS EQUIVALENT TO AN; ACTION=NG, STATUTE=107,122, REMEDY=VA IS EQUIVALENT TO NE; ACTION=NG, STATUTE=106,122, REMEDY=RV IS EQUIVALENT TO RN; ACTION=NG, STATUTE=106,122, REMEDY=CO IS EQUIVALENT TO FN; ACTION=NG, STATUTE=106,122, REMEDY=OM, VD, VA, CO ARE COMBINATIONS NOT COVERED BY AN, FN, RN, NE.

TYPE: **TA - TECHNICAL ASSISTANCE**

START DATE: 08/02/1994

COMPLETION DATE: 07/29/1996

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ACTION TYPE DEFINITION:

PARTICIPATION IN THE CONDUCT OF FUND-FINANCED REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS).

TYPE: **BF - POTENTIALLY RESPONSIBLE PARTY REMEDIAL ACTION**

START DATE: **07/25/1994**

COMPLETION DATE: **02/23/1995**

ACTION TYPE DEFINITION:

PROVIDES FOR OVERSIGHT OF POTENTIALLY RESPONSIBLE PARTY (PRP) RESPONSE ACTION FOR REMEDIAL ACTION (RA), INCLUDING ALL ACTIVITIES FOR MONITORING AND SUPERVISING THE PERFORMANCE OF THE RESPONSIBLE PARTIES TO DETERMINE WHETHER SUCH PERFORMANCE IS CONSISTENT WITH THE REQUIREMENTS OF THE ADMINISTRATIVE ORDERS ON CONSENT, UNILATERAL ADMINISTRATIVE ORDERS, CONSENT DECREES, JUDICIAL DECREES, INFORMATION AGREEMENTS, AND COMPLIANCE SCHEDULES.

TYPE: **TA - TECHNICAL ASSISTANCE**

START DATE: **05/31/1994**

COMPLETION DATE: **06/16/1994**

ACTION TYPE DEFINITION:

PARTICIPATION IN THE CONDUCT OF FUND-FINANCED REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS).

TYPE: **BB - POTENTIALLY RESPONSIBLE PARTY REMOVAL - TIME CRITICAL**

START DATE: **01/04/1994**

COMPLETION DATE: **04/29/1994**

ACTION TYPE DEFINITION:

PROVIDES FOR OVERSIGHT OF POTENTIALLY RESPONSIBLE PARTY (PRP) RESPONSE ACTION FOR REMOVALS, INCLUDING ALL ACTIVITIES FOR MONITORING AND SUPERVISING THE PERFORMANCE OF PRPS TO DETERMINE WHETHER SUCH PERFORMANCE IS CONSISTENT WITH THE REQUIREMENTS OF THE ADMINISTRATIVE ORDERS ON CONSENT, UNILATERAL ADMINISTRATIVE ORDERS, CONSENT DECREES, JUDICIAL DECREES, INFORMATION AGREEMENTS, AND COMPLIANCE SCHEDULES.

TYPE: **BB - POTENTIALLY RESPONSIBLE PARTY REMOVAL - TIME CRITICAL**

START DATE: **12/15/1993**

COMPLETION DATE: **04/29/1994**

ACTION TYPE DEFINITION:

PROVIDES FOR OVERSIGHT OF POTENTIALLY RESPONSIBLE PARTY (PRP) RESPONSE ACTION FOR REMOVALS, INCLUDING ALL ACTIVITIES FOR MONITORING AND SUPERVISING THE PERFORMANCE OF PRPS TO DETERMINE WHETHER SUCH PERFORMANCE IS CONSISTENT WITH THE REQUIREMENTS OF THE ADMINISTRATIVE ORDERS ON CONSENT, UNILATERAL ADMINISTRATIVE ORDERS, CONSENT DECREES, JUDICIAL DECREES, INFORMATION AGREEMENTS, AND COMPLIANCE SCHEDULES.

TYPE: **BB - POTENTIALLY RESPONSIBLE PARTY REMOVAL - TIME CRITICAL**

START DATE: **12/08/1993**

COMPLETION DATE: **06/09/1994**

ACTION TYPE DEFINITION:

PROVIDES FOR OVERSIGHT OF POTENTIALLY RESPONSIBLE PARTY (PRP) RESPONSE ACTION FOR REMOVALS, INCLUDING ALL ACTIVITIES FOR MONITORING AND SUPERVISING THE PERFORMANCE OF PRPS TO DETERMINE WHETHER SUCH PERFORMANCE IS CONSISTENT WITH THE REQUIREMENTS OF THE ADMINISTRATIVE ORDERS ON CONSENT, UNILATERAL ADMINISTRATIVE ORDERS, CONSENT DECREES, JUDICIAL DECREES, INFORMATION AGREEMENTS, AND COMPLIANCE SCHEDULES.

TYPE: **RA - REMEDIAL ACTION**

START DATE: **09/29/1993**

COMPLETION DATE: **01/06/1995**

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ACTION TYPE DEFINITION:

THE IMPLEMENTATION OF A PERMANENT RESOLUTION TO ADDRESS A RELEASE OR POTENTIAL RELEASE OF A HAZARDOUS SUBSTANCE FROM A SITE.

TYPE: RA - REMEDIAL ACTION

START DATE: 09/29/1993

COMPLETION DATE: 09/28/1999

ACTION TYPE DEFINITION:

THE IMPLEMENTATION OF A PERMANENT RESOLUTION TO ADDRESS A RELEASE OR POTENTIAL RELEASE OF A HAZARDOUS SUBSTANCE FROM A SITE.

TYPE: RA - REMEDIAL ACTION

START DATE: 09/29/1993

COMPLETION DATE: NR

ACTION TYPE DEFINITION:

THE IMPLEMENTATION OF A PERMANENT RESOLUTION TO ADDRESS A RELEASE OR POTENTIAL RELEASE OF A HAZARDOUS SUBSTANCE FROM A SITE.

TYPE: RA - REMEDIAL ACTION

START DATE: 09/29/1993

COMPLETION DATE: NR

ACTION TYPE DEFINITION:

THE IMPLEMENTATION OF A PERMANENT RESOLUTION TO ADDRESS A RELEASE OR POTENTIAL RELEASE OF A HAZARDOUS SUBSTANCE FROM A SITE.

TYPE: RA - REMEDIAL ACTION - LONG TERM ACTION

START DATE: 09/29/1993

COMPLETION DATE: 11/17/2003

ACTION TYPE DEFINITION:

THE IMPLEMENTATION OF A PERMANENT RESOLUTION TO ADDRESS A RELEASE OR POTENTIAL RELEASE OF A HAZARDOUS SUBSTANCE FROM A SITE.

TYPE: BB - POTENTIALLY RESPONSIBLE PARTY REMOVAL - TIME CRITICAL

START DATE: 08/23/1993

COMPLETION DATE: 09/23/1994

ACTION TYPE DEFINITION:

PROVIDES FOR OVERSIGHT OF POTENTIALLY RESPONSIBLE PARTY (PRP) RESPONSE ACTION FOR REMOVALS, INCLUDING ALL ACTIVITIES FOR MONITORING AND SUPERVISING THE PERFORMANCE OF PRPS TO DETERMINE WHETHER SUCH PERFORMANCE IS CONSISTENT WITH THE REQUIREMENTS OF THE ADMINISTRATIVE ORDERS ON CONSENT, UNILATERAL ADMINISTRATIVE ORDERS, CONSENT DECREES, JUDICIAL DECREES, INFORMATION AGREEMENTS, AND COMPLIANCE SCHEDULES.

TYPE: FE - FIVE-YEAR REVIEW

START DATE: 08/09/1993

COMPLETION DATE: 03/30/1994

ACTION TYPE DEFINITION:

A REVIEW THAT IS CONDUCTED AT A MINIMUM OF EVERY FIVE YEARS TO DETERMINE IF THE IMPLEMENTATION AND PERFORMANCE OF A REMEDY IS PROTECTIVE OR WILL BE PROTECTIVE OF HUMAN HEALTH AND THE ENVIRONMENT.

TYPE: BB - POTENTIALLY RESPONSIBLE PARTY REMOVAL - TIME CRITICAL

START DATE: 06/15/1993

COMPLETION DATE: 06/16/1993

ACTION TYPE DEFINITION:

National Priorities List (NPL)

PROVIDES FOR OVERSIGHT OF POTENTIALLY RESPONSIBLE PARTY (PRP) RESPONSE ACTION FOR REMOVALS, INCLUDING ALL ACTIVITIES FOR MONITORING AND SUPERVISING THE PERFORMANCE OF PRPS TO DETERMINE WHETHER SUCH PERFORMANCE IS CONSISTENT WITH THE REQUIREMENTS OF THE ADMINISTRATIVE ORDERS ON CONSENT, UNILATERAL ADMINISTRATIVE ORDERS, CONSENT DECREES, JUDICIAL DECREES, INFORMATION AGREEMENTS, AND COMPLIANCE SCHEDULES.

TYPE: **NS - NATIONAL PRIORITIES LIST RESPONSIBLE PARTY SEARCH**

START DATE: **04/22/1993**

COMPLETION DATE: **03/15/1994**

ACTION TYPE DEFINITION:

THE NATIONAL PRIORITY LIST (NPL) POTENTIALLY RESPONSIBLE PARTY (PRP) SEARCH IS USED TO IDENTIFY PRPS AT A FINAL NPL OR PROPOSED NPL SITE. ACTIONS TYPICALLY INCLUDE TITLE SEARCH, FINANCIAL ASSESSMENTS, AND REVIEW OF APPLICABLE RECORDS. THE NPL PRP SEARCH SHOULD BEGIN UPON COMPLETION OF THE SCREENING SITE INVESTIGATION AND SHOULD BE CONDUCTED CONCURRENT WITH THE NATIONAL PRIORITIES LISTING PROCESS.

TYPE: **RS - REMOVAL ASSESSMENT**

START DATE: **02/18/1993**

COMPLETION DATE: **09/09/1993**

ACTION TYPE DEFINITION:

COLLECTING SITE CHARACTERISTICS TO DETERMINE WHETHER OR NOT A REMOVAL MUST BE PERFORMED.

TYPE: **PC - PREPARATION OF COST DOCUMENT PACKAGE**

START DATE: **01/31/1993**

COMPLETION DATE: **12/31/1993**

ACTION TYPE DEFINITION:

PACKAGE PREPARED IN SUPPORT OF COST RECOVERY ACTIONS CONTAINING SITE-SPECIFIC COST DOCUMENTATION INFORMATION FOR DIRECT EXPENDITURES (I.E., AGENCY PAYROLL AND TRAVEL, CONTRACTING COSTS) AND INDIRECT COSTS. DOCUMENTATION MAY BE CONDENSED PER RULE 1006 OF THE FEDERAL RULES OF EVIDENCE.

TYPE: **RA - REMEDIAL ACTION**

START DATE: **09/30/1992**

COMPLETION DATE: **02/12/1997**

ACTION TYPE DEFINITION:

THE IMPLEMENTATION OF A PERMANENT RESOLUTION TO ADDRESS A RELEASE OR POTENTIAL RELEASE OF A HAZARDOUS SUBSTANCE FROM A SITE.

TYPE: **RD - REMEDIAL DESIGN**

START DATE: **09/30/1991**

COMPLETION DATE: **09/14/2004**

ACTION TYPE DEFINITION:

THE PROCESS OF FULLY DETAILING AND SPECIFYING THE SELECTED REMEDY IDENTIFIED IN THE ROD OR EDD.

TYPE: **RD - REMEDIAL DESIGN**

START DATE: **09/30/1991**

COMPLETION DATE: **09/28/2005**

ACTION TYPE DEFINITION:

THE PROCESS OF FULLY DETAILING AND SPECIFYING THE SELECTED REMEDY IDENTIFIED IN THE ROD OR EDD.

TYPE: **RD - REMEDIAL DESIGN**

START DATE: **09/30/1991**

COMPLETION DATE: **09/09/2002**

ACTION TYPE DEFINITION:

THE PROCESS OF FULLY DETAILING AND SPECIFYING THE SELECTED REMEDY IDENTIFIED IN THE ROD OR EDD.

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TYPE: RD - REMEDIAL DESIGN

START DATE: 09/30/1991

COMPLETION DATE: 05/02/2005

ACTION TYPE DEFINITION:

THE PROCESS OF FULLY DETAILING AND SPECIFYING THE SELECTED REMEDY IDENTIFIED IN THE ROD OR EDD.

TYPE: RD - REMEDIAL DESIGN

START DATE: 09/30/1991

COMPLETION DATE: 09/22/2003

ACTION TYPE DEFINITION:

THE PROCESS OF FULLY DETAILING AND SPECIFYING THE SELECTED REMEDY IDENTIFIED IN THE ROD OR EDD.

TYPE: RD - REMEDIAL DESIGN

START DATE: 09/30/1991

COMPLETION DATE: 09/30/2004

ACTION TYPE DEFINITION:

THE PROCESS OF FULLY DETAILING AND SPECIFYING THE SELECTED REMEDY IDENTIFIED IN THE ROD OR EDD.

TYPE: RD - REMEDIAL DESIGN

START DATE: 09/30/1991

COMPLETION DATE: 09/25/2008

ACTION TYPE DEFINITION:

THE PROCESS OF FULLY DETAILING AND SPECIFYING THE SELECTED REMEDY IDENTIFIED IN THE ROD OR EDD.

TYPE: RD - REMEDIAL DESIGN

START DATE: 09/30/1991

COMPLETION DATE: 09/25/2008

ACTION TYPE DEFINITION:

THE PROCESS OF FULLY DETAILING AND SPECIFYING THE SELECTED REMEDY IDENTIFIED IN THE ROD OR EDD.

TYPE: AR - ADMINISTRATIVE RECORDS

START DATE: 09/17/1991

COMPLETION DATE: 09/17/1991

ACTION TYPE DEFINITION:

SARA SPECIFIES THAT ADMINISTRATIVE RECORDS BE COMPILED AT SUPERFUND SITES WHERE REMEDIAL OR REMOVAL RESPONSES ARE PLANNED, OR ARE OCCURRING, OR WHERE EPA IS ISSUING A UNILATERAL ORDER OR INITIATING LITIGATION TO TRACK ENFORCEMENT CASE BUDGET FUNDS USED FOR ANY RP LEAD ACTIVITY.

TYPE: RP - NON-NATIONAL PRIORITIES LIST POTENTIALLY RESPONSIBLE PARTY SEARCH

START DATE: 09/04/1991

COMPLETION DATE: 01/14/1994

ACTION TYPE DEFINITION:

THE NON-NPL POTENTIALLY RESPONSIBLE PARTY (PRP) SEARCH IS TO IDENTIFY PRPS AT NON-NPL OR REMOVAL ACTION SITES.

TYPE: RV - REMOVAL - EMERGENCY

START DATE: 08/01/1991

COMPLETION DATE: 09/14/1991

ACTION TYPE DEFINITION:

RESPONSE ACTION THAT REQUIRES EXPEDITIOUS ATTENTION TO REDUCE IMMINENT AND SUBSTANTIAL DANGERS TO HUMAN HEALTH, WELFARE, OR THE ENVIRONMENT OR AN EMERGENCY RESPONSE REQUIRED WITHIN HOURS OR DAYS TO ADDRESS ACUTE SITUATIONS INVOLVING ACTUAL OR POTENTIAL THREAT TO HUMAN HEALTH, THE ENVIRONMENT, OR REAL OR PERSONAL PROPERTY DUE TO THE RELEASE OF A HAZARDOUS SUBSTANCE. CHARACTERIZATION OF A

National Priorities List (NPL)

REMOVAL ACTION AS REMOVAL, NOT IMMEDIATE REMOVAL OR PLANNED REMOVAL, STARTED AT THE BEGINNING OF FY 1987. THIS CODE NOW TAKES THE PLACE OF IMMEDIATE REMOVAL (IR) AND PLANNED REMOVAL (PR).

TYPE: AS - AERIAL SURVEY

START DATE: 03/18/1991

COMPLETION DATE: 06/25/1991

ACTION TYPE DEFINITION:

PROVIDE AERIAL PHOTOGRAPHY, MULTISPECTRAL SCANNER (MSS), FORWARD LOOKING INFRARED (FLIR), AND HISTORICAL AERIAL PHOTOGRAPHS WITH ANALYSES SUPPORT FOR REGIONAL OFFICES AND OERR REQUIREMENTS FOR PRE-REMEDIAL AND REMEDIAL ACTIONS. THE AERIAL SURVEY SUPPORT PROVIDES FOUR TYPES OF REMOTE SENSING PROJECTS: (1) EMERGENCY RESPONSE PROJECTS FOR RAPID ACQUISITION AND ASSESSMENT, (2) SINGLE DATE PROJECTS TO ACQUIRE CURRENT DATA, (3) INTENSIVE SITE ANALYSES TO ACQUIRE IMAGERY OVER A PERIOD OF TIME USING HISTORICAL AERIAL PHOTOGRAPHS DATING BACK AS FAR AS 1920, (4) WASTE SITE INVENTORIES TO ESTABLISH BASELINE REFERENCE OVER LARGE AREAS. CERCLA HAZARDOUS WASTE SITES.

TYPE: TA - TECHNICAL ASSISTANCE

START DATE: 03/04/1991

COMPLETION DATE: 06/30/1994

ACTION TYPE DEFINITION:

PARTICIPATION IN THE CONDUCT OF FUND-FINANCED REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS).

TYPE: RS - REMOVAL ASSESSMENT

START DATE: 01/01/1991

COMPLETION DATE: 07/02/1991

ACTION TYPE DEFINITION:

COLLECTING SITE CHARACTERISTICS TO DETERMINE WHETHER OR NOT A REMOVAL MUST BE PERFORMED.

TYPE: TA - TECHNICAL ASSISTANCE

START DATE: 12/30/1990

COMPLETION DATE: 09/30/1991

ACTION TYPE DEFINITION:

PARTICIPATION IN THE CONDUCT OF FUND-FINANCED REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS).

TYPE: TA - TECHNICAL ASSISTANCE

START DATE: 12/27/1990

COMPLETION DATE: NR

ACTION TYPE DEFINITION:

PARTICIPATION IN THE CONDUCT OF FUND-FINANCED REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS).

TYPE: NS - NATIONAL PRIORITIES LIST RESPONSIBLE PARTY SEARCH

START DATE: 10/17/1990

COMPLETION DATE: 06/09/1994

ACTION TYPE DEFINITION:

THE NATIONAL PRIORITY LIST (NPL) POTENTIALLY RESPONSIBLE PARTY (PRP) SEARCH IS USED TO IDENTIFY PRPS AT A FINAL NPL OR PROPOSED NPL SITE. ACTIONS TYPICALLY INCLUDE TITLE SEARCH, FINANCIAL ASSESSMENTS, AND REVIEW OF APPLICABLE RECORDS. THE NPL PRP SEARCH SHOULD BEGIN UPON COMPLETION OF THE SCREENING SITE INVESTIGATION AND SHOULD BE CONDUCTED CONCURRENT WITH THE NATIONAL PRIORITIES LISTING PROCESS.

TYPE: RS - REMOVAL ASSESSMENT

START DATE: 08/30/1990

COMPLETION DATE: 08/30/1990

ACTION TYPE DEFINITION:

COLLECTING SITE CHARACTERISTICS TO DETERMINE WHETHER OR NOT A REMOVAL MUST BE PERFORMED.

National Priorities List (NPL)

TYPE: RP - NON-NATIONAL PRIORITIES LIST POTENTIALLY RESPONSIBLE PARTY SEARCH

START DATE: 06/30/1990

COMPLETION DATE: 09/04/1991

ACTION TYPE DEFINITION:

THE NON-NPL POTENTIALLY RESPONSIBLE PARTY (PRP) SEARCH IS TO IDENTIFY PRPS AT NON-NPL OR REMOVAL ACTION SITES.

TYPE: TA - TECHNICAL ASSISTANCE

START DATE: 12/19/1989

COMPLETION DATE: 01/09/1997

ACTION TYPE DEFINITION:

PARTICIPATION IN THE CONDUCT OF FUND-FINANCED REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS).

TYPE: TA - TECHNICAL ASSISTANCE

START DATE: 09/07/1989

COMPLETION DATE: 06/30/1994

ACTION TYPE DEFINITION:

PARTICIPATION IN THE CONDUCT OF FUND-FINANCED REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS).

TYPE: RA - REMEDIAL ACTION

START DATE: 03/29/1989

COMPLETION DATE: 09/30/1991

ACTION TYPE DEFINITION:

THE IMPLEMENTATION OF A PERMANENT RESOLUTION TO ADDRESS A RELEASE OR POTENTIAL RELEASE OF A HAZARDOUS SUBSTANCE FROM A SITE.

TYPE: CR - COMMUNITY INVOLVEMENT

START DATE: 12/01/1988

COMPLETION DATE: 05/30/1989

ACTION TYPE DEFINITION:

THE COMMUNITY RELATIONS ACTIVITIES, I.E., PLAN, IMPLEMENTATION AND RESPONSIVENESS SUMMARY THAT MUST BE COMPLETED AT A SITE TO ADDRESS COMMUNITY CONCERNS.

TYPE: AR - ADMINISTRATIVE RECORDS

START DATE: 09/01/1988

COMPLETION DATE: 09/30/1991

ACTION TYPE DEFINITION:

SARA SPECIFIES THAT ADMINISTRATIVE RECORDS BE COMPILED AT SUPERFUND SITES WHERE REMEDIAL OR REMOVAL RESPONSES ARE PLANNED, OR ARE OCCURRING, OR WHERE EPA IS ISSUING A UNILATERAL ORDER OR INITIATING LITIGATION TO TRACK ENFORCEMENT CASE BUDGET FUNDS USED FOR ANY RP LEAD ACTIVITY.

TYPE: RD - REMEDIAL DESIGN

START DATE: 06/27/1988

COMPLETION DATE: 03/29/1989

ACTION TYPE DEFINITION:

THE PROCESS OF FULLY DETAILING AND SPECIFYING THE SELECTED REMEDY IDENTIFIED IN THE ROD OR EDD.

TYPE: TA - TECHNICAL ASSISTANCE

START DATE: 06/27/1988

COMPLETION DATE: 01/09/1997

ACTION TYPE DEFINITION:

PARTICIPATION IN THE CONDUCT OF FUND-FINANCED REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS).

TYPE: TA - TECHNICAL ASSISTANCE

National Priorities List (NPL)

START DATE: **06/22/1988**

COMPLETION DATE: **01/09/1997**

ACTION TYPE DEFINITION:

PARTICIPATION IN THE CONDUCT OF FUND-FINANCED REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS).

TYPE: **RI - REMEDIAL INVESTIGATION**

START DATE: **06/15/1988**

COMPLETION DATE: **09/21/1990**

ACTION TYPE DEFINITION:

AN INVESTIGATION INTENDED TO GATHER THE DATA NECESSARY TO: (1) DETERMINE THE NATURE AND EXTENT OF PROBLEMS AT THE SITE; (2) ESTABLISH CLEANUP CRITERIA FOR THE SITE; (3) IDENTIFY PRELIMINARY ALTERNATIVE REMEDIAL ACTIONS; AND (4) SUPPORT THE TECHNICAL AND COST ANALYSES OF THE ALTERNATIVES.

TYPE: **RD - REMEDIAL DESIGN**

START DATE: **06/15/1988**

COMPLETION DATE: **09/30/1991**

ACTION TYPE DEFINITION:

THE PROCESS OF FULLY DETAILING AND SPECIFYING THE SELECTED REMEDY IDENTIFIED IN THE ROD OR EDD.

TYPE: **AR - ADMINISTRATIVE RECORDS**

START DATE: **10/01/1987**

COMPLETION DATE: **10/01/1987**

ACTION TYPE DEFINITION:

SARA SPECIFIES THAT ADMINISTRATIVE RECORDS BE COMPILED AT SUPERFUND SITES WHERE REMEDIAL OR REMOVAL RESPONSES ARE PLANNED, OR ARE OCCURRING, OR WHERE EPA IS ISSUING A UNILATERAL ORDER OR INITIATING LITIGATION TO TRACK ENFORCEMENT CASE BUDGET FUNDS USED FOR ANY RP LEAD ACTIVITY.

TYPE: **RV - REMOVAL - TIME CRITICAL**

START DATE: **09/30/1987**

COMPLETION DATE: **12/09/1988**

ACTION TYPE DEFINITION:

RESPONSE ACTION THAT REQUIRES EXPEDITIOUS ATTENTION TO REDUCE IMMINENT AND SUBSTANTIAL DANGERS TO HUMAN HEALTH, WELFARE, OR THE ENVIRONMENT OR AN EMERGENCY RESPONSE REQUIRED WITHIN HOURS OR DAYS TO ADDRESS ACUTE SITUATIONS INVOLVING ACTUAL OR POTENTIAL THREAT TO HUMAN HEALTH, THE ENVIRONMENT, OR REAL OR PERSONAL PROPERTY DUE TO THE RELEASE OF A HAZARDOUS SUBSTANCE. CHARACTERIZATION OF A REMOVAL ACTION AS REMOVAL, NOT IMMEDIATE REMOVAL OR PLANNED REMOVAL, STARTED AT THE BEGINNING OF FY 1987. THIS CODE NOW TAKES THE PLACE OF IMMEDIATE REMOVAL (IR) AND PLANNED REMOVAL (PR).

TYPE: **AR - ADMINISTRATIVE RECORDS**

START DATE: **09/30/1987**

COMPLETION DATE: **05/08/1988**

ACTION TYPE DEFINITION:

SARA SPECIFIES THAT ADMINISTRATIVE RECORDS BE COMPILED AT SUPERFUND SITES WHERE REMEDIAL OR REMOVAL RESPONSES ARE PLANNED, OR ARE OCCURRING, OR WHERE EPA IS ISSUING A UNILATERAL ORDER OR INITIATING LITIGATION TO TRACK ENFORCEMENT CASE BUDGET FUNDS USED FOR ANY RP LEAD ACTIVITY.

TYPE: **NS - NATIONAL PRIORITIES LIST RESPONSIBLE PARTY SEARCH**

START DATE: **07/07/1987**

COMPLETION DATE: **11/30/1988**

ACTION TYPE DEFINITION:

THE NATIONAL PRIORITY LIST (NPL) POTENTIALLY RESPONSIBLE PARTY (PRP) SEARCH IS USED TO IDENTIFY PRPS AT A FINAL NPL OR PROPOSED NPL SITE. ACTIONS TYPICALLY INCLUDE TITLE SEARCH, FINANCIAL ASSESSMENTS, AND

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REVIEW OF APPLICABLE RECORDS. THE NPL PRP SEARCH SHOULD BEGIN UPON COMPLETION OF THE SCREENING SITE INVESTIGATION AND SHOULD BE CONDUCTED CONCURRENT WITH THE NATIONAL PRIORITIES LISTING PROCESS.

TYPE: **FS - FEASIBILITY STUDY**

START DATE: **04/09/1987**

COMPLETION DATE: **03/31/1988**

ACTION TYPE DEFINITION:

A STUDY OF A HAZARDOUS WASTE SITE INTENDED TO (1) EVALUATE ALTERNATIVE REMEDIAL ACTIONS FROM TECHNICAL, ENVIRONMENTAL, AND COST-EFFECTIVENESS PERSPECTIVES; (2) RECOMMEND THE COST-EFFECTIVE REMEDIAL ACTION; AND (3) PREPARE A CONCEPTUAL DESIGN, A COSTESTIMATE FOR BUDGETARY PURPOSES, AND A PRELIMINARY CONSTRUCTION SCHEDULE.

TYPE: **RV - REMOVAL - EMERGENCY**

START DATE: **03/27/1987**

COMPLETION DATE: **04/29/1987**

ACTION TYPE DEFINITION:

RESPONSE ACTION THAT REQUIRES EXPEDITIOUS ATTENTION TO REDUCE IMMINENT AND SUBSTANTIAL DANGERS TO HUMAN HEALTH, WELFARE, OR THE ENVIRONMENT OR AN EMERGENCY RESPONSE REQUIRED WITHIN HOURS OR DAYS TO ADDRESS ACUTE SITUATIONS INVOLVING ACTUAL OR POTENTIAL THREAT TO HUMAN HEALTH, THE ENVIRONMENT, OR REAL OR PERSONAL PROPERTY DUE TO THE RELEASE OF A HAZARDOUS SUBSTANCE. CHARACTERIZATION OF A REMOVAL ACTION AS REMOVAL, NOT IMMEDIATE REMOVAL OR PLANNED REMOVAL, STARTED AT THE BEGINNING OF FY 1987. THIS CODE NOW TAKES THE PLACE OF IMMEDIATE REMOVAL (IR) AND PLANNED REMOVAL (PR).

TYPE: **FS - FEASIBILITY STUDY**

START DATE: **09/17/1986**

COMPLETION DATE: **09/30/1987**

ACTION TYPE DEFINITION:

A STUDY OF A HAZARDOUS WASTE SITE INTENDED TO (1) EVALUATE ALTERNATIVE REMEDIAL ACTIONS FROM TECHNICAL, ENVIRONMENTAL, AND COST-EFFECTIVENESS PERSPECTIVES; (2) RECOMMEND THE COST-EFFECTIVE REMEDIAL ACTION; AND (3) PREPARE A CONCEPTUAL DESIGN, A COSTESTIMATE FOR BUDGETARY PURPOSES, AND A PRELIMINARY CONSTRUCTION SCHEDULE.

TYPE: **FS - FEASIBILITY STUDY**

START DATE: **09/01/1986**

COMPLETION DATE: **09/30/1991**

ACTION TYPE DEFINITION:

A STUDY OF A HAZARDOUS WASTE SITE INTENDED TO (1) EVALUATE ALTERNATIVE REMEDIAL ACTIONS FROM TECHNICAL, ENVIRONMENTAL, AND COST-EFFECTIVENESS PERSPECTIVES; (2) RECOMMEND THE COST-EFFECTIVE REMEDIAL ACTION; AND (3) PREPARE A CONCEPTUAL DESIGN, A COSTESTIMATE FOR BUDGETARY PURPOSES, AND A PRELIMINARY CONSTRUCTION SCHEDULE.

TYPE: **TA - TECHNICAL ASSISTANCE**

START DATE: **07/15/1986**

COMPLETION DATE: **01/18/1994**

ACTION TYPE DEFINITION:

PARTICIPATION IN THE CONDUCT OF FUND-FINANCED REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS).

TYPE: **CR - COMMUNITY INVOLVEMENT**

START DATE: **12/31/1985**

COMPLETION DATE: **06/30/1986**

ACTION TYPE DEFINITION:

THE COMMUNITY RELATIONS ACTIVITIES, I.E., PLAN, IMPLEMENTATION AND RESPONSIVENESS SUMMARY THAT MUST BE

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COMPLETED AT A SITE TO ADDRESS COMMUNITY CONCERNS.

TYPE: MA - STATE SUPPORT AGENCY COOPERATIVE AGREEMENT

START DATE: 07/10/1985

COMPLETION DATE: 06/15/1988

ACTION TYPE DEFINITION:

FEDERAL RENUMERATION OF STATE ADMINISTRATIVE COSTS OF PARTICIPATION IN SITE-SPECIFIC REMEDIAL PLANNING OR IMPLEMENTATION ACTIVITIES.

TYPE: RI - REMEDIAL INVESTIGATION

START DATE: 09/23/1983

COMPLETION DATE: 04/09/1987

ACTION TYPE DEFINITION:

AN INVESTIGATION INTENDED TO GATHER THE DATA NECESSARY TO: (1) DETERMINE THE NATURE AND EXTENT OF PROBLEMS AT THE SITE; (2) ESTABLISH CLEANUP CRITERIA FOR THE SITE; (3) IDENTIFY PRELIMINARY ALTERNATIVE REMEDIAL ACTIONS; AND (4) SUPPORT THE TECHNICAL AND COST ANALYSES OF THE ALTERNATIVES.

TYPE: WP - REMEDIAL INVESTIGATION/FEASIBILITY STUDY WORKPLAN APPROVAL BY HQ

START DATE: 02/14/1983

COMPLETION DATE: 07/15/1985

ACTION TYPE DEFINITION:

APPROVAL OF THE REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) WORKPLAN, WHICH IS A DESCRIPTION OF THE TASKS AND RESOURCES PLANNED FOR THE RI/FS.

TYPE: RO - RECORD OF DECISION

START DATE: NR

COMPLETION DATE: 09/30/1987

ACTION TYPE DEFINITION:

THE FINAL RECORD OF DECISION (ROD) IS SIGNED BY THE APPROPRIATE AGENCY INDICATING THAT THE AGENCY HAS CHOSEN THE REMEDY FOR SITE REMEDIATION. ROD SIGNATURE IS SIGNIFIED BY THE COMPLETE DATE.

TYPE: RO - RECORD OF DECISION

START DATE: NR

COMPLETION DATE: 03/31/1988

ACTION TYPE DEFINITION:

THE FINAL RECORD OF DECISION (ROD) IS SIGNED BY THE APPROPRIATE AGENCY INDICATING THAT THE AGENCY HAS CHOSEN THE REMEDY FOR SITE REMEDIATION. ROD SIGNATURE IS SIGNIFIED BY THE COMPLETE DATE.

TYPE: UA - UNILATERAL ADMIN ORDER

START DATE: NR

COMPLETION DATE: 07/15/1994

ACTION TYPE DEFINITION:

ADMINISTRATIVE ORDER ISSUED BY EPA UNILATERALLY (UNDER SECTION 106 OF SARA). UNILATERAL ORDERS CAN COMPEL POTENTIALLY RESPONSIBLE PARTIES (PRPS) TO CONDUCT REMOVAL, REMEDIAL INVESTIGATION/FEASIBILITY STUDY, REMEDIAL DESIGN/REMEDIAL ACTION, AND MAY INCLUDE COST RECOVERY. COMMONLY ABBREVIATED UAO.

TYPE: UA - UNILATERAL ADMIN ORDER

START DATE: NR

COMPLETION DATE: 06/02/1995

ACTION TYPE DEFINITION:

ADMINISTRATIVE ORDER ISSUED BY EPA UNILATERALLY (UNDER SECTION 106 OF SARA). UNILATERAL ORDERS CAN COMPEL POTENTIALLY RESPONSIBLE PARTIES (PRPS) TO CONDUCT REMOVAL, REMEDIAL INVESTIGATION/FEASIBILITY STUDY, REMEDIAL DESIGN/REMEDIAL ACTION, AND MAY INCLUDE COST RECOVERY. COMMONLY ABBREVIATED UAO.

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TYPE: **UA - UNILATERAL ADMIN ORDER**

START DATE: **NR**

COMPLETION DATE: **06/02/1995**

ACTION TYPE DEFINITION:

ADMINISTRATIVE ORDER ISSUED BY EPA UNILATERALLY (UNDER SECTION 106 OF SARA). UNILATERAL ORDERS CAN COMPEL POTENTIALLY RESPONSIBLE PARTIES (PRPS) TO CONDUCT REMOVAL, REMEDIAL INVESTIGATION/FEASIBILITY STUDY, REMEDIAL DESIGN/REMEDIAL ACTION, AND MAY INCLUDE COST RECOVERY. COMMONLY ABBREVIATED UAO.

TYPE: **UA - UNILATERAL ADMIN ORDER**

START DATE: **NR**

COMPLETION DATE: **09/19/1997**

ACTION TYPE DEFINITION:

ADMINISTRATIVE ORDER ISSUED BY EPA UNILATERALLY (UNDER SECTION 106 OF SARA). UNILATERAL ORDERS CAN COMPEL POTENTIALLY RESPONSIBLE PARTIES (PRPS) TO CONDUCT REMOVAL, REMEDIAL INVESTIGATION/FEASIBILITY STUDY, REMEDIAL DESIGN/REMEDIAL ACTION, AND MAY INCLUDE COST RECOVERY. COMMONLY ABBREVIATED UAO.

TYPE: **UA - UNILATERAL ADMIN ORDER**

START DATE: **NR**

COMPLETION DATE: **09/05/1997**

ACTION TYPE DEFINITION:

ADMINISTRATIVE ORDER ISSUED BY EPA UNILATERALLY (UNDER SECTION 106 OF SARA). UNILATERAL ORDERS CAN COMPEL POTENTIALLY RESPONSIBLE PARTIES (PRPS) TO CONDUCT REMOVAL, REMEDIAL INVESTIGATION/FEASIBILITY STUDY, REMEDIAL DESIGN/REMEDIAL ACTION, AND MAY INCLUDE COST RECOVERY. COMMONLY ABBREVIATED UAO.

TYPE: **UA - UNILATERAL ADMIN ORDER**

START DATE: **NR**

COMPLETION DATE: **09/05/1997**

ACTION TYPE DEFINITION:

ADMINISTRATIVE ORDER ISSUED BY EPA UNILATERALLY (UNDER SECTION 106 OF SARA). UNILATERAL ORDERS CAN COMPEL POTENTIALLY RESPONSIBLE PARTIES (PRPS) TO CONDUCT REMOVAL, REMEDIAL INVESTIGATION/FEASIBILITY STUDY, REMEDIAL DESIGN/REMEDIAL ACTION, AND MAY INCLUDE COST RECOVERY. COMMONLY ABBREVIATED UAO.

TYPE: **UA - UNILATERAL ADMIN ORDER**

START DATE: **NR**

COMPLETION DATE: **09/05/1997**

ACTION TYPE DEFINITION:

ADMINISTRATIVE ORDER ISSUED BY EPA UNILATERALLY (UNDER SECTION 106 OF SARA). UNILATERAL ORDERS CAN COMPEL POTENTIALLY RESPONSIBLE PARTIES (PRPS) TO CONDUCT REMOVAL, REMEDIAL INVESTIGATION/FEASIBILITY STUDY, REMEDIAL DESIGN/REMEDIAL ACTION, AND MAY INCLUDE COST RECOVERY. COMMONLY ABBREVIATED UAO.

TYPE: **UA - UNILATERAL ADMIN ORDER**

START DATE: **NR**

COMPLETION DATE: **09/19/1997**

ACTION TYPE DEFINITION:

ADMINISTRATIVE ORDER ISSUED BY EPA UNILATERALLY (UNDER SECTION 106 OF SARA). UNILATERAL ORDERS CAN COMPEL POTENTIALLY RESPONSIBLE PARTIES (PRPS) TO CONDUCT REMOVAL, REMEDIAL INVESTIGATION/FEASIBILITY STUDY, REMEDIAL DESIGN/REMEDIAL ACTION, AND MAY INCLUDE COST RECOVERY. COMMONLY ABBREVIATED UAO.

TYPE: **RO - RECORD OF DECISION**

START DATE: **NR**

COMPLETION DATE: **09/29/2004**

ACTION TYPE DEFINITION:

National Priorities List (NPL)

THE FINAL RECORD OF DECISION (ROD) IS SIGNED BY THE APPROPRIATE AGENCY INDICATING THAT THE AGENCY HAS CHOSEN THE REMEDY FOR SITE REMEDIATION. ROD SIGNATURE IS SIGNIFIED BY THE COMPLETE DATE.

TYPE: **RO - RECORD OF DECISION**

START DATE: **NR**

COMPLETION DATE: **09/30/1991**

ACTION TYPE DEFINITION:

THE FINAL RECORD OF DECISION (ROD) IS SIGNED BY THE APPROPRIATE AGENCY INDICATING THAT THE AGENCY HAS CHOSEN THE REMEDY FOR SITE REMEDIATION. ROD SIGNATURE IS SIGNIFIED BY THE COMPLETE DATE.

TYPE: **SI - SITE INSPECTION**

START DATE: **NR**

COMPLETION DATE: **06/01/1982**

ACTION TYPE DEFINITION:

THE PROCESS OF COLLECTING SITE DATA AND SAMPLES TO CHARACTERIZE THE SEVERITY OF THE HAZARD FOR THE HAZARD RANKING SCORE AND/OR ENFORCEMENT SUPPORT.

TYPE: **EH - EXPLANATION OF SIGNIFICANT DIFFERENCES**

START DATE: **NR**

COMPLETION DATE: **06/06/2005**

ACTION TYPE DEFINITION:

MINOR CHANGE FROM THE ORIGINAL REMEDY SELECTED IN THE ORIGINAL RECORD OF DECISION (ROD), SUCH AS CONTINGENT REMEDY.

TYPE: **CA - CONSENT AGREEMENT (ADMINISTRATIVE)**

START DATE: **NR**

COMPLETION DATE: **09/14/1998**

ACTION TYPE DEFINITION:

INFORMAL AGREEMENT USED TO INITIATE POTENTIALLY RESPONSIBLE PARTY (PRP) RESPONSE OR COST RECOVERY.

TYPE: **DP - PUBLIC NOTICE PUBLISHED**

START DATE: **NR**

COMPLETION DATE: **09/27/1991**

ACTION TYPE DEFINITION:

PUBLICATION IN THE LOCAL NEWSPAPER OF THE AVAILABILITY OF DOCUMENTS FOR PUBLIC REVIEW, SUCH AS THE ADMINISTRATIVE RECORD, PROPOSED PLAN, AND DELETION PACKAGE.

TYPE: **DS - DISCOVERY**

START DATE: **NR**

COMPLETION DATE: **03/01/1982**

ACTION TYPE DEFINITION:

THE PROCESS BY WHICH A POTENTIAL HAZARDOUS WASTE SITE IS BROUGHT TO THE ATTENTION OF THE EPA. THE PROCESS CAN OCCUR THROUGH THE USE OF SEVERAL MECHANISMS SUCH AS A PHONE CALL OR REFERRAL BY ANOTHER GOVERNMENT AGENCY.

TYPE: **EH - EXPLANATION OF SIGNIFICANT DIFFERENCES**

START DATE: **NR**

COMPLETION DATE: **09/01/1999**

ACTION TYPE DEFINITION:

MINOR CHANGE FROM THE ORIGINAL REMEDY SELECTED IN THE ORIGINAL RECORD OF DECISION (ROD), SUCH AS CONTINGENT REMEDY.

TYPE: **CA - CONSENT AGREEMENT (ADMINISTRATIVE)**

START DATE: **NR**

National Priorities List (NPL)

COMPLETION DATE: 03/10/2000

ACTION TYPE DEFINITION:

INFORMAL AGREEMENT USED TO INITIATE POTENTIALLY RESPONSIBLE PARTY (PRP) RESPONSE OR COST RECOVERY.

TYPE: AC - ADMINISTRATIVE ORDER ON CONSENT

START DATE: NR

COMPLETION DATE: 02/12/1993

ACTION TYPE DEFINITION:

A VOLUNTARY AND ENFORCEABLE AGREEMENT PURSUANT TO CERCLA, SIGNED BY EPA AND POTENTIALLY RESPONSIBLE PARTIES (PRPS), WHEREBY THE PRPS AGREE TO PERFORM AND/OR PAY FOR SOME OR ALL OF THE RESPONSE COSTS INVOLVED IN SITE CLEANUP. THE ORDER DESCRIBES THE PRP RESPONSE TO BE TAKEN AT A SITE, STIPULATED PENALTIES, INDEMNIFICATION, EFFECTIVE DATE, AND MAY BE SUBJECT TO PUBLIC COMMENT. IT CAN BE FOR REMOVAL, REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS), REMEDIAL DESIGN (RD), AND REMEDIAL ACTION (RA),PRE-SARA; BUT ONLY REMOVAL AND RI/FS, POST-SARA.

TYPE: AC - ADMINISTRATIVE ORDER ON CONSENT

START DATE: NR

COMPLETION DATE: 02/25/1993

ACTION TYPE DEFINITION:

A VOLUNTARY AND ENFORCEABLE AGREEMENT PURSUANT TO CERCLA, SIGNED BY EPA AND POTENTIALLY RESPONSIBLE PARTIES (PRPS), WHEREBY THE PRPS AGREE TO PERFORM AND/OR PAY FOR SOME OR ALL OF THE RESPONSE COSTS INVOLVED IN SITE CLEANUP. THE ORDER DESCRIBES THE PRP RESPONSE TO BE TAKEN AT A SITE, STIPULATED PENALTIES, INDEMNIFICATION, EFFECTIVE DATE, AND MAY BE SUBJECT TO PUBLIC COMMENT. IT CAN BE FOR REMOVAL, REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS), REMEDIAL DESIGN (RD), AND REMEDIAL ACTION (RA),PRE-SARA; BUT ONLY REMOVAL AND RI/FS, POST-SARA.

TYPE: AC - ADMINISTRATIVE ORDER ON CONSENT

START DATE: NR

COMPLETION DATE: 04/18/1993

ACTION TYPE DEFINITION:

A VOLUNTARY AND ENFORCEABLE AGREEMENT PURSUANT TO CERCLA, SIGNED BY EPA AND POTENTIALLY RESPONSIBLE PARTIES (PRPS), WHEREBY THE PRPS AGREE TO PERFORM AND/OR PAY FOR SOME OR ALL OF THE RESPONSE COSTS INVOLVED IN SITE CLEANUP. THE ORDER DESCRIBES THE PRP RESPONSE TO BE TAKEN AT A SITE, STIPULATED PENALTIES, INDEMNIFICATION, EFFECTIVE DATE, AND MAY BE SUBJECT TO PUBLIC COMMENT. IT CAN BE FOR REMOVAL, REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS), REMEDIAL DESIGN (RD), AND REMEDIAL ACTION (RA),PRE-SARA; BUT ONLY REMOVAL AND RI/FS, POST-SARA.

TYPE: AC - ADMINISTRATIVE ORDER ON CONSENT

START DATE: NR

COMPLETION DATE: 06/02/1993

ACTION TYPE DEFINITION:

A VOLUNTARY AND ENFORCEABLE AGREEMENT PURSUANT TO CERCLA, SIGNED BY EPA AND POTENTIALLY RESPONSIBLE PARTIES (PRPS), WHEREBY THE PRPS AGREE TO PERFORM AND/OR PAY FOR SOME OR ALL OF THE RESPONSE COSTS INVOLVED IN SITE CLEANUP. THE ORDER DESCRIBES THE PRP RESPONSE TO BE TAKEN AT A SITE, STIPULATED PENALTIES, INDEMNIFICATION, EFFECTIVE DATE, AND MAY BE SUBJECT TO PUBLIC COMMENT. IT CAN BE FOR REMOVAL, REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS), REMEDIAL DESIGN (RD), AND REMEDIAL ACTION (RA),PRE-SARA; BUT ONLY REMOVAL AND RI/FS, POST-SARA.

TYPE: AC - ADMINISTRATIVE ORDER ON CONSENT

START DATE: NR

COMPLETION DATE: 11/19/1993

National Priorities List (NPL)

ACTION TYPE DEFINITION:

A VOLUNTARY AND ENFORCEABLE AGREEMENT PURSUANT TO CERCLA, SIGNED BY EPA AND POTENTIALLY RESPONSIBLE PARTIES (PRPS), WHEREBY THE PRPS AGREE TO PERFORM AND/OR PAY FOR SOME OR ALL OF THE RESPONSE COSTS INVOLVED IN SITE CLEANUP. THE ORDER DESCRIBES THE PRP RESPONSE TO BE TAKEN AT A SITE, STIPULATED PENALTIES, INDEMNIFICATION, EFFECTIVE DATE, AND MAY BE SUBJECT TO PUBLIC COMMENT. IT CAN BE FOR REMOVAL, REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS), REMEDIAL DESIGN (RD), AND REMEDIAL ACTION (RA),PRE-SARA; BUT ONLY REMOVAL AND RI/FS, POST-SARA.

TYPE: AC - ADMINISTRATIVE ORDER ON CONSENT

START DATE: NR

COMPLETION DATE: 06/08/1995

ACTION TYPE DEFINITION:

A VOLUNTARY AND ENFORCEABLE AGREEMENT PURSUANT TO CERCLA, SIGNED BY EPA AND POTENTIALLY RESPONSIBLE PARTIES (PRPS), WHEREBY THE PRPS AGREE TO PERFORM AND/OR PAY FOR SOME OR ALL OF THE RESPONSE COSTS INVOLVED IN SITE CLEANUP. THE ORDER DESCRIBES THE PRP RESPONSE TO BE TAKEN AT A SITE, STIPULATED PENALTIES, INDEMNIFICATION, EFFECTIVE DATE, AND MAY BE SUBJECT TO PUBLIC COMMENT. IT CAN BE FOR REMOVAL, REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS), REMEDIAL DESIGN (RD), AND REMEDIAL ACTION (RA),PRE-SARA; BUT ONLY REMOVAL AND RI/FS, POST-SARA.

TYPE: AC - ADMINISTRATIVE ORDER ON CONSENT

START DATE: NR

COMPLETION DATE: 09/13/1995

ACTION TYPE DEFINITION:

A VOLUNTARY AND ENFORCEABLE AGREEMENT PURSUANT TO CERCLA, SIGNED BY EPA AND POTENTIALLY RESPONSIBLE PARTIES (PRPS), WHEREBY THE PRPS AGREE TO PERFORM AND/OR PAY FOR SOME OR ALL OF THE RESPONSE COSTS INVOLVED IN SITE CLEANUP. THE ORDER DESCRIBES THE PRP RESPONSE TO BE TAKEN AT A SITE, STIPULATED PENALTIES, INDEMNIFICATION, EFFECTIVE DATE, AND MAY BE SUBJECT TO PUBLIC COMMENT. IT CAN BE FOR REMOVAL, REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS), REMEDIAL DESIGN (RD), AND REMEDIAL ACTION (RA),PRE-SARA; BUT ONLY REMOVAL AND RI/FS, POST-SARA.

TYPE: AC - ADMINISTRATIVE ORDER ON CONSENT

START DATE: NR

COMPLETION DATE: 08/21/1996

ACTION TYPE DEFINITION:

A VOLUNTARY AND ENFORCEABLE AGREEMENT PURSUANT TO CERCLA, SIGNED BY EPA AND POTENTIALLY RESPONSIBLE PARTIES (PRPS), WHEREBY THE PRPS AGREE TO PERFORM AND/OR PAY FOR SOME OR ALL OF THE RESPONSE COSTS INVOLVED IN SITE CLEANUP. THE ORDER DESCRIBES THE PRP RESPONSE TO BE TAKEN AT A SITE, STIPULATED PENALTIES, INDEMNIFICATION, EFFECTIVE DATE, AND MAY BE SUBJECT TO PUBLIC COMMENT. IT CAN BE FOR REMOVAL, REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS), REMEDIAL DESIGN (RD), AND REMEDIAL ACTION (RA),PRE-SARA; BUT ONLY REMOVAL AND RI/FS, POST-SARA.

TYPE: AC - ADMINISTRATIVE ORDER ON CONSENT

START DATE: NR

COMPLETION DATE: 04/26/2007

ACTION TYPE DEFINITION:

A VOLUNTARY AND ENFORCEABLE AGREEMENT PURSUANT TO CERCLA, SIGNED BY EPA AND POTENTIALLY RESPONSIBLE PARTIES (PRPS), WHEREBY THE PRPS AGREE TO PERFORM AND/OR PAY FOR SOME OR ALL OF THE RESPONSE COSTS INVOLVED IN SITE CLEANUP. THE ORDER DESCRIBES THE PRP RESPONSE TO BE TAKEN AT A SITE, STIPULATED PENALTIES, INDEMNIFICATION, EFFECTIVE DATE, AND MAY BE SUBJECT TO PUBLIC COMMENT. IT CAN BE FOR REMOVAL, REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS), REMEDIAL DESIGN (RD), AND REMEDIAL ACTION (RA),PRE-SARA; BUT ONLY REMOVAL AND RI/FS, POST-SARA.

National Priorities List (NPL)

TYPE: AC - ADMINISTRATIVE ORDER ON CONSENT

START DATE: NR

COMPLETION DATE: 04/26/2007

ACTION TYPE DEFINITION:

A VOLUNTARY AND ENFORCEABLE AGREEMENT PURSUANT TO CERCLA, SIGNED BY EPA AND POTENTIALLY RESPONSIBLE PARTIES (PRPS), WHEREBY THE PRPS AGREE TO PERFORM AND/OR PAY FOR SOME OR ALL OF THE RESPONSE COSTS INVOLVED IN SITE CLEANUP. THE ORDER DESCRIBES THE PRP RESPONSE TO BE TAKEN AT A SITE, STIPULATED PENALTIES, INDEMNIFICATION, EFFECTIVE DATE, AND MAY BE SUBJECT TO PUBLIC COMMENT. IT CAN BE FOR REMOVAL, REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS), REMEDIAL DESIGN (RD), AND REMEDIAL ACTION (RA), PRE-SARA; BUT ONLY REMOVAL AND RI/FS, POST-SARA.

TYPE: NJ - NOTICE LETTERS ISSUED

START DATE: NR

COMPLETION DATE: 02/15/1995

ACTION TYPE DEFINITION:

EPA ISSUES NOTICE LETTERS TO POTENTIALLY RESPONSIBLE PARTIES INFORMING THEM OF THEIR POTENTIAL LIABILITY UNDER CERCLA AND INVITING THEM TO DISCUSS INVOLVEMENT AT THE SITE.

TYPE: NJ - NOTICE LETTERS ISSUED

START DATE: NR

COMPLETION DATE: 08/30/1995

ACTION TYPE DEFINITION:

EPA ISSUES NOTICE LETTERS TO POTENTIALLY RESPONSIBLE PARTIES INFORMING THEM OF THEIR POTENTIAL LIABILITY UNDER CERCLA AND INVITING THEM TO DISCUSS INVOLVEMENT AT THE SITE.

TYPE: NJ - NOTICE LETTERS ISSUED

START DATE: NR

COMPLETION DATE: 07/09/1997

ACTION TYPE DEFINITION:

EPA ISSUES NOTICE LETTERS TO POTENTIALLY RESPONSIBLE PARTIES INFORMING THEM OF THEIR POTENTIAL LIABILITY UNDER CERCLA AND INVITING THEM TO DISCUSS INVOLVEMENT AT THE SITE.

TYPE: NJ - NOTICE LETTERS ISSUED

START DATE: NR

COMPLETION DATE: 06/25/1997

ACTION TYPE DEFINITION:

EPA ISSUES NOTICE LETTERS TO POTENTIALLY RESPONSIBLE PARTIES INFORMING THEM OF THEIR POTENTIAL LIABILITY UNDER CERCLA AND INVITING THEM TO DISCUSS INVOLVEMENT AT THE SITE.

TYPE: NJ - NOTICE LETTERS ISSUED

START DATE: NR

COMPLETION DATE: 09/05/1997

ACTION TYPE DEFINITION:

EPA ISSUES NOTICE LETTERS TO POTENTIALLY RESPONSIBLE PARTIES INFORMING THEM OF THEIR POTENTIAL LIABILITY UNDER CERCLA AND INVITING THEM TO DISCUSS INVOLVEMENT AT THE SITE.

TYPE: NJ - NOTICE LETTERS ISSUED

START DATE: NR

COMPLETION DATE: 09/22/1997

ACTION TYPE DEFINITION:

EPA ISSUES NOTICE LETTERS TO POTENTIALLY RESPONSIBLE PARTIES INFORMING THEM OF THEIR POTENTIAL LIABILITY

National Priorities List (NPL)

UNDER CERCLA AND INVITING THEM TO DISCUSS INVOLVEMENT AT THE SITE.

TYPE: NJ - NOTICE LETTERS ISSUED

START DATE: NR

COMPLETION DATE: 08/10/1994

ACTION TYPE DEFINITION:

EPA ISSUES NOTICE LETTERS TO POTENTIALLY RESPONSIBLE PARTIES INFORMING THEM OF THEIR POTENTIAL LIABILITY UNDER CERCLA AND INVITING THEM TO DISCUSS INVOLVEMENT AT THE SITE.

TYPE: NJ - NOTICE LETTERS ISSUED

START DATE: NR

COMPLETION DATE: 08/12/1994

ACTION TYPE DEFINITION:

EPA ISSUES NOTICE LETTERS TO POTENTIALLY RESPONSIBLE PARTIES INFORMING THEM OF THEIR POTENTIAL LIABILITY UNDER CERCLA AND INVITING THEM TO DISCUSS INVOLVEMENT AT THE SITE.

TYPE: NJ - NOTICE LETTERS ISSUED

START DATE: NR

COMPLETION DATE: 02/18/1987

ACTION TYPE DEFINITION:

EPA ISSUES NOTICE LETTERS TO POTENTIALLY RESPONSIBLE PARTIES INFORMING THEM OF THEIR POTENTIAL LIABILITY UNDER CERCLA AND INVITING THEM TO DISCUSS INVOLVEMENT AT THE SITE.

TYPE: NJ - NOTICE LETTERS ISSUED

START DATE: NR

COMPLETION DATE: 10/04/1996

ACTION TYPE DEFINITION:

EPA ISSUES NOTICE LETTERS TO POTENTIALLY RESPONSIBLE PARTIES INFORMING THEM OF THEIR POTENTIAL LIABILITY UNDER CERCLA AND INVITING THEM TO DISCUSS INVOLVEMENT AT THE SITE.

TYPE: PA - PRELIMINARY ASSESSMENT

START DATE: NR

COMPLETION DATE: 07/01/1982

ACTION TYPE DEFINITION:

COLLECTION OF DIVERSE EXISTING INFORMATION ABOUT THE SOURCE AND NATURE OF THE SITE HAZARD. IT IS EPA POLICY TO COMPLETE THE PRELIMINARY ASSESSMENT WITHIN ONE YEAR OF SITE DISCOVERY.

TYPE: NP - PROPOSAL TO NATIONAL PRIORITIES LIST

START DATE: NR

COMPLETION DATE: 12/30/1982

ACTION TYPE DEFINITION:

SITE PROPOSED FOR INCLUSION ON THE NATIONAL PRIORITY LIST BASED ON THE HAZARD RANKING SYSTEM (HRS) SCORE FOR THE SITE.

TYPE: NJ - NOTICE LETTERS ISSUED

START DATE: NR

COMPLETION DATE: 08/30/1995

ACTION TYPE DEFINITION:

EPA ISSUES NOTICE LETTERS TO POTENTIALLY RESPONSIBLE PARTIES INFORMING THEM OF THEIR POTENTIAL LIABILITY UNDER CERCLA AND INVITING THEM TO DISCUSS INVOLVEMENT AT THE SITE.

TYPE: GU - NON-CONSENSUAL JUDICIAL ORDER

START DATE: NR

COMPLETION DATE: 08/22/2007

National Priorities List (NPL)

ACTION TYPE DEFINITION:

ANY ORDER ISSUED BY THE COURT OTHER THAN A CONSENT ORDER OR ADMINISTRATIVE DEFAULT ORDER.

TYPE: **HR - HAZARD RANKING SYSTEM PACKAGE**

START DATE: **NR**

COMPLETION DATE: **12/01/1982**

ACTION TYPE DEFINITION:

A NUMERIC ESTIMATE OF THE RELATIVE SEVERITY OF A HAZARDOUS SUBSTANCE RELEASE OR POTENTIAL RELEASE BASED ON: (1) THE RELATIVE POTENTIAL OF SUBSTANCES TO CAUSE HAZARDOUS SITUATIONS; (2) THE LIKELIHOOD AND RATE AT WHICH THE SUBSTANCES MAY AFFECT HUMAN AND ENVIRONMENTAL RECEPTORS; AND (3) THE SEVERITY AND MAGNITUDE OF POTENTIAL EFFECTS. THE SCORE IS COMPUTED USING THE HAZARD RANKING SYSTEM (HRS).

TYPE: **IC - ISSUE REQUEST LETTERS (104E)**

START DATE: **NR**

COMPLETION DATE: **04/22/1993**

ACTION TYPE DEFINITION:

EPA ISSUES LETTERS UNDER THE AUTHORITY OF SECTION 104(E) TO GATHER INFORMATION RELATED TO (1) THE IDENTIFICATION, NATURE, AND QUANTITY OF MATERIALS; (2) THE NATURE OR EXTENT OF A RELEASE OR THREATENED RELEASE OF A HAZARDOUS SUBSTANCE, POLLUTANT, OR CONTAMINANT; OR (3) THE ABILITY OF A PERSON TO PAY FOR OR TO PERFORM A CLEANUP.

TYPE: **IC - ISSUE REQUEST LETTERS (104E)**

START DATE: **NR**

COMPLETION DATE: **02/15/1995**

ACTION TYPE DEFINITION:

EPA ISSUES LETTERS UNDER THE AUTHORITY OF SECTION 104(E) TO GATHER INFORMATION RELATED TO (1) THE IDENTIFICATION, NATURE, AND QUANTITY OF MATERIALS; (2) THE NATURE OR EXTENT OF A RELEASE OR THREATENED RELEASE OF A HAZARDOUS SUBSTANCE, POLLUTANT, OR CONTAMINANT; OR (3) THE ABILITY OF A PERSON TO PAY FOR OR TO PERFORM A CLEANUP.

TYPE: **LO - LODGED BY DOJ**

START DATE: **NR**

COMPLETION DATE: **02/12/1997**

ACTION TYPE DEFINITION:

AN ENFORCEMENT INSTRUMENT (E.G. CONSENT DECREE) IS LODGED BY DOJ WITH THE COURT.

TYPE: **NJ - NOTICE LETTERS ISSUED**

START DATE: **NR**

COMPLETION DATE: **09/04/1991**

ACTION TYPE DEFINITION:

EPA ISSUES NOTICE LETTERS TO POTENTIALLY RESPONSIBLE PARTIES INFORMING THEM OF THEIR POTENTIAL LIABILITY UNDER CERCLA AND INVITING THEM TO DISCUSS INVOLVEMENT AT THE SITE.

TYPE: **IC - ISSUE REQUEST LETTERS (104E)**

START DATE: **NR**

COMPLETION DATE: **10/04/1996**

ACTION TYPE DEFINITION:

EPA ISSUES LETTERS UNDER THE AUTHORITY OF SECTION 104(E) TO GATHER INFORMATION RELATED TO (1) THE IDENTIFICATION, NATURE, AND QUANTITY OF MATERIALS; (2) THE NATURE OR EXTENT OF A RELEASE OR THREATENED RELEASE OF A HAZARDOUS SUBSTANCE, POLLUTANT, OR CONTAMINANT; OR (3) THE ABILITY OF A PERSON TO PAY FOR OR TO PERFORM A CLEANUP.

TYPE: **NF - FINAL LISTING ON NATIONAL PRIORITIES LIST**

National Priorities List (NPL)

START DATE: NR

COMPLETION DATE: 09/08/1983

ACTION TYPE DEFINITION:

SITE MOVED FROM PROPOSED LIST TO FINAL NATIONAL PRIORITY LIST.

TYPE: LO - LODGED BY DOJ

START DATE: NR

COMPLETION DATE: 03/15/2007

ACTION TYPE DEFINITION:

AN ENFORCEMENT INSTRUMENT (E.G. CONSENT DECREE) IS LODGED BY DOJ WITH THE COURT.

TYPE: JQ - RECORD OF DECISION AMENDMENT

START DATE: NR

COMPLETION DATE: 04/29/2010

ACTION TYPE DEFINITION:

SIGNIFICANT CHANGE FROM THE ORIGINAL SELECTED REMEDY STATED IN THE ORIGINAL RECORD OF DECISION (ROD), SUCH AS NEW TECHNOLOGY OR NEW MEDIUM.

TYPE: JQ - RECORD OF DECISION AMENDMENT

START DATE: NR

COMPLETION DATE: 09/25/2006

ACTION TYPE DEFINITION:

SIGNIFICANT CHANGE FROM THE ORIGINAL SELECTED REMEDY STATED IN THE ORIGINAL RECORD OF DECISION (ROD), SUCH AS NEW TECHNOLOGY OR NEW MEDIUM.

TYPE: JQ - RECORD OF DECISION AMENDMENT

START DATE: NR

COMPLETION DATE: 09/22/2003

ACTION TYPE DEFINITION:

SIGNIFICANT CHANGE FROM THE ORIGINAL SELECTED REMEDY STATED IN THE ORIGINAL RECORD OF DECISION (ROD), SUCH AS NEW TECHNOLOGY OR NEW MEDIUM.

CONTAMINANTS

WASTE SOURCE MEDIA CONTAMINATED NAME: **CADMIUM**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **CADMIUM**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **COPPER**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **COPPER**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **GROUNDWATER 01 RVNEI**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **ARSENIC**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **GROUNDWATER 01 RVNEI**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

National Priorities List (NPL)

HAZARDOUS SUBSTANCE NAME: **CADMIUM**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **GROUNDWATER 01 RVNEI**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **CHROMIUM**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **GROUNDWATER 01 RVNEI**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **LEAD**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **GROUNDWATER**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **4600 UG/L**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **FLUORIDE**

CONTAMINANT GROUP NAME: **INORGANICS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **GROUNDWATER**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **7.5 UG/L**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **ARSENIC**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **GROUNDWATER**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **312 UG/L**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **CADMIUM**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **GROUNDWATER**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **9 UG/L**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **CHROMIUM**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **GROUNDWATER**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **6700 UG/L**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **COPPER**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **GROUNDWATER**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **50000 UG/L**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **MANGANESE**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **GROUNDWATER**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **688 UG/L**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **NICKEL**

National Priorities List (NPL)

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **GROUNDWATER**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **0.2 UG/L**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **SILVER**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **GROUNDWATER**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **60100 UG/L**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **ZINC**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **GROUNDWATER**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **ARSENIC**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **LEAD**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **LEAD**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **ZINC**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **ZINC**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **ARGO TREATMENT**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **ACID COMPOUNDS**

CONTAMINANT GROUP NAME: **ACIDS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **ARGO TREATMENT**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **METALS**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **LEACHATE**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **ZINC**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **CYANIDE**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **SODIUM CYANIDE**

CONTAMINANT GROUP NAME: **INORGANICS**

National Priorities List (NPL)

WASTE SOURCE MEDIA CONTAMINATED NAME: **LIQUID MERCURY**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**
HAZARDOUS SUBSTANCE NAME: **MERCURY**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **ACID MINE DRAINAGE**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**
HAZARDOUS SUBSTANCE NAME: **ARSENIC**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **ACID MINE DRAINAGE**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**
HAZARDOUS SUBSTANCE NAME: **LEAD**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **ACID MINE DRAINAGE**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**
HAZARDOUS SUBSTANCE NAME: **MANGANESE**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **ACID MINE DRAINAGE**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**
HAZARDOUS SUBSTANCE NAME: **METALS**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **ACID MINE DRAINAGE**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**
HAZARDOUS SUBSTANCE NAME: **ZINC**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SEDIMENT**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **CADMIUM**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SEDIMENT**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **COPPER**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SEDIMENT**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **ZINC**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SEDIMENT**

National Priorities List (NPL)

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **ARSENIC**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SEDIMENT**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **CADMIUM**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SEDIMENT**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **COPPER**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SEDIMENT**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **LEAD**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SEDIMENT**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **MANGANESE**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SEDIMENT**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **ZINC**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SOIL 01 MATRL**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **ARSENIC**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SOIL 01 MATRL**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **CADMIUM**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SOIL 01 MATRL**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **CHROMIUM**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SOIL 01 MATRL**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

National Priorities List (NPL)

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**
HAZARDOUS SUBSTANCE NAME: **LEAD**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **SOIL 01 MATRL**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**
HAZARDOUS SUBSTANCE NAME: **ZINC**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **SOIL 01 MATRL**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**
HAZARDOUS SUBSTANCE NAME: **ARSENIC**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **SOIL 01 MATRL**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**
HAZARDOUS SUBSTANCE NAME: **LEAD**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **SOIL 01 MATRL**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**
HAZARDOUS SUBSTANCE NAME: **MANGANESE**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **SOIL 01 MATRL**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**
HAZARDOUS SUBSTANCE NAME: **METALS**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **SOIL 01 MATRL**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**
HAZARDOUS SUBSTANCE NAME: **ZINC**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **SOIL 01 RVNEI**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**
HAZARDOUS SUBSTANCE NAME: **ARSENIC**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **SOIL 01 RVNEI**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**
HAZARDOUS SUBSTANCE NAME: **BARIUM**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **SOIL 01 RVNEI**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

National Priorities List (NPL)

HAZARDOUS SUBSTANCE NAME: **CADMIUM**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **SOIL 01 RVNEI**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **CHROMIUM**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **SOIL 01 RVNEI**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **LEAD**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **SOIL 01 RVNEI**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **METALS**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **SOIL 01 RVNEI**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **VOC**
CONTAMINANT GROUP NAME: **VOC**
WASTE SOURCE MEDIA CONTAMINATED NAME: **SOIL 02 MATRL**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **ARSENIC**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **SOIL 02 MATRL**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **CADMIUM**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **SOIL 02 MATRL**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **CHROMIUM**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **SOIL 02 MATRL**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **LEAD**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **SOIL 02 MATRL**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **ZINC**

National Priorities List (NPL)

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SOIL OU 03, RA 01**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **METALS**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **TAILINGS**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **METALS**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **5 PILES SOLID WASTE**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **FLUORIDE**

CONTAMINANT GROUP NAME: **INORGANICS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **5 PILES SOLID WASTE**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **ALUMINUM**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **5 PILES SOLID WASTE**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **ARSENIC**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **5 PILES SOLID WASTE**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **CADMIUM**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **5 PILES SOLID WASTE**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **CHROMIUM (HEXAVALENT)**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **5 PILES SOLID WASTE**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **COPPER**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **5 PILES SOLID WASTE**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **LEAD**

CONTAMINANT GROUP NAME: **METALS**

National Priorities List (NPL)

WASTE SOURCE MEDIA CONTAMINATED NAME: **5 PILES SOLID WASTE**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**
HAZARDOUS SUBSTANCE NAME: **MANGANESE**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **5 PILES SOLID WASTE**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **NICKEL**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **5 PILES SOLID WASTE**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **SILVER**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **5 PILES SOLID WASTE**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**
HAZARDOUS SUBSTANCE NAME: **ZINC**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **BIG 5/GREGORY SW**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**
HAZARDOUS SUBSTANCE NAME: **FLUORIDE**
CONTAMINANT GROUP NAME: **INORGANICS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **BIG 5/GREGORY SW**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**
HAZARDOUS SUBSTANCE NAME: **ALUMINUM**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **BIG 5/GREGORY SW**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **ARSENIC**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **BIG 5/GREGORY SW**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **CADMIUM**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **BIG 5/GREGORY SW**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **CHROMIUM (HEXAVALENT)**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **BIG 5/GREGORY SW**

National Priorities List (NPL)

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **COPPER**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **BIG 5/GREGORY SW**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **LEAD**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **BIG 5/GREGORY SW**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **MANGANESE**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **BIG 5/GREGORY SW**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **NICKEL**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **BIG 5/GREGORY SW**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **SILVER**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **BIG 5/GREGORY SW**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **ZINC**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **MINE WASTE**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **ARSENIC**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **MINE WASTE**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **LEAD**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SOLID WASTE**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **630 MG/KG**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **ARSENIC**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SOLID WASTE**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **28 MG/KG**

National Priorities List (NPL)

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **CADMIUM**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **SOLID WASTE**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **83 MG/KG**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **CHROMIUM**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **SOLID WASTE**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **790 MG/KG**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **COPPER**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **SOLID WASTE**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **5630 MG/KG**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **MANGANESE**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **SOLID WASTE**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **38 MG/KG**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **NICKEL**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **SOLID WASTE**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **35 MG/KG**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **SILVER**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **SOLID WASTE**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **5830 MG/KG**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **ZINC**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **SOLID WASTE**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **ARSENIC**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **SOLID WASTE**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **CADMIUM**
CONTAMINANT GROUP NAME: **METALS**
WASTE SOURCE MEDIA CONTAMINATED NAME: **SOLID WASTE**
CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**
CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

National Priorities List (NPL)

HAZARDOUS SUBSTANCE NAME: **COPPER**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SOLID WASTE**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **LEAD**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SOLID WASTE**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **MANGANESE**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SOLID WASTE**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **ZINC**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **MINE DRAINAGE**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **ZINC**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER 01 MAT**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **METALS**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER 01 MAT**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **METALS**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER 01 MAT**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **METALS**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER 01 MAT**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **ARSENIC**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER 01 MAT**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **BARIUM**

National Priorities List (NPL)

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER 01 MAT**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **CADMIUM**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER 01 MAT**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **CHROMIUM**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER 01 MAT**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **LEAD**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER 01 MAT**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **METALS**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER 01 MAT**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **VOC**

CONTAMINANT GROUP NAME: **VOC**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SW CLEAR CREEK**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **19600 UG/L**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **ALUMINUM**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SW CLEAR CREEK**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **135 UG/L**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **ARSENIC**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SW CLEAR CREEK**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **12.6 UG/L**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **CADMIUM**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SW CLEAR CREEK**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **19 UG/L**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **CHROMIUM**

CONTAMINANT GROUP NAME: **METALS**

National Priorities List (NPL)

WASTE SOURCE MEDIA CONTAMINATED NAME: **SW CLEAR CREEK**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **5170 UG/L**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **COPPER**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SW CLEAR CREEK**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **144000 UG/L**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **IRON**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SW CLEAR CREEK**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **59 UG/L**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **LEAD**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SW CLEAR CREEK**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **84050 UG/L**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **MANGANESE**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SW CLEAR CREEK**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **239 UG/L**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **NICKEL**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SW CLEAR CREEK**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **75 UG/L**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **SILVER**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SW CLEAR CREEK**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **42375 UG/L**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **ZINC**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SW NORTH CLEAR CREEK**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **63400 UG/L**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **ALUMINUM**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SW NORTH CLEAR CREEK**
CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **1474 UG/L**
CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**
HAZARDOUS SUBSTANCE NAME: **ARSENIC**
CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SW NORTH CLEAR CREEK**

National Priorities List (NPL)

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **363 UG/L**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **CADMIUM**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SW NORTH CLEAR CREEK**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **56 UG/L**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **CHROMIUM**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SW NORTH CLEAR CREEK**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **48733 UG/L**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **COPPER**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SW NORTH CLEAR CREEK**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **549667 UG/L**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **IRON**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SW NORTH CLEAR CREEK**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **137 UG/L**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **LEAD**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SW NORTH CLEAR CREEK**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **62100 UG/L**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **MANGANESE**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SW NORTH CLEAR CREEK**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **480 UG/L**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **NICKEL**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SW NORTH CLEAR CREEK**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **18 UG/L**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **SILVER**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SW NORTH CLEAR CREEK**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **89300 UG/L**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **ZINC**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **2 UG/L**

National Priorities List (NPL)

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **ARSENIC**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **20 UG/L**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **CADMIUM**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **2960 UG/L**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **COPPER**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **16 UG/L**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **LEAD**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **19500 UG/L**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **MANGANESE**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **0.1 UG/L**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **MERCURY**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **7610 UG/L**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **NOT REPORTED**

HAZARDOUS SUBSTANCE NAME: **ZINC**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **4800 UG/L**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **FLUORIDE**

CONTAMINANT GROUP NAME: **INORGANICS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **3 UG/L**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **ARSENIC**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **19 UG/L**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

National Priorities List (NPL)

HAZARDOUS SUBSTANCE NAME: **CADMIUM**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **59 UG/L**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **CHROMIUM**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **203 UG/L**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **COPPER**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **10000 UG/L**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **MANGANESE**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **87 UG/L**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **NICKEL**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **2220 UG/L**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **ZINC**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **CADMIUM**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **COPPER**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **MANGANESE**

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER**

CONSTITUTENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUTENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **MERCURY**

National Priorities List (NPL)

CONTAMINANT GROUP NAME: **METALS**

WASTE SOURCE MEDIA CONTAMINATED NAME: **SURFACE WATER**

CONSTITUENT CONTAMINANT MAXIMUM CONCENTRATION VALUE: **NOT REPORTED**

CONSTITUENT CONTAMINANT OF CONCERN FLAG: **YES**

HAZARDOUS SUBSTANCE NAME: **ZINC**

CONTAMINANT GROUP NAME: **METALS**

LISTING OF PUBLISHED INSTITUTIONAL CONTROL SITE REPORT - NOT AN INSTITUTIONAL CONTROL SITE -

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Superfund Sites (SF)

MAP ID# 1

Distance from Property: 0.00 mi. W

SITE INFORMATION

EPA ID: COD980717557 SITE ID: 0800257
SITE NAME: CENTRAL CITY/CLEAR CREEK
SITE ADDRESS: NEAR TOWN
IDAHO SPGS,CENT.CY,BKHAWK, CO 80452
SITE COUNTY: CLEAR CREEK
ADDITIONAL INFORMATION: ACTIVE SUPERFUND SITES
MAP LINKS: <HTTP://EMAPS.DPHE.STATE.CO.US/HMSITEMAP/NPL/CENTRALCITY.HTM>

CONTACT INFORMATION

NAME: RON ABEL
PHONE: (303) 692-3381

SITE SUMMARY

LOCATION:

THE CLEAR CREEK/CENTRAL CITY SUPERFUND SITE IS LOCATED IN CLEAR CREEK AND GILPIN COUNTIES, APPROXIMATELY 30 MILES WEST OF DENVER. THE SUPERFUND STUDY AREA COVERS THE 400-SQUARE MILE DRAINAGE BASIN OF CLEAR CREEK, WHICH HAS BEEN AFFECTED BY A NUMBER OF INACTIVE PRECIOUS METAL MINES. THE SUPERFUND INVESTIGATION HAS FOCUSED ON MINE DRAINAGE TUNNELS AND MINE TAILINGS AND WASTE ROCK PILES.

HISTORY:

GOLD WAS DISCOVERED NEAR IDAHO SPRINGS IN 1859, AND IN THE BLACK HAWK/CENTRAL CITY AREA IN 1860. FOR THE NEXT 20 YEARS, THE BLACK HAWK/CENTRAL CITY AREA WAS THE LEADING MINING CENTER IN COLORADO WITH THE CONSTRUCTION OF MILLS TO PROCESS THE GOLD AND SILVER FOUND THROUGH PLACER AND HARD ROCK MINING. THE DECLINE OF MINING IN THE AREA BEGAN WITH THE SILVER CRASH IN THE 1890'S AND THE RISE IN MINING IN LEADVILLE. HOWEVER, MINING CONTINUED TO BE AN IMPORTANT INDUSTRY IN CLEAR CREEK AND GILPIN COUNTIES FROM THE TURN OF THE CENTURY UNTIL APPROXIMATELY 1950. SINCE 1950, MINING IN THE AREA HAS BEEN LIMITED WITH ONLY A HANDFUL OF MINES CURRENTLY OPERATING. THE SITE WAS PLACED ON THE LIST OF SUPERFUND SITES IN SEPTEMBER 1983. SINCE THAT TIME, THE DEPARTMENT, EPA AND THE LOCAL COMMUNITY HAVE WORKED TO CLEAN UP HEAVY METAL CONTAMINATION RESULTING FROM DECADES OF HARD ROCK MINING IN THE AREA. THE DEPARTMENT AND EPA HAVE DEVELOPED CLEAN-UP PLANS TO DEAL WITH THE WORST SOURCES OF CONTAMINATION WITHIN THE CLEAR CREEK WATERSHED. IN 1992, LIMITED STAKES GAMING BEGAN IN CENTRAL CITY AND BLACK HAWK. INTRODUCTION OF GAMBLING HAS LED TO SOME LAND USE CHANGES. WHILE THESE CHANGES HAVE THE POTENTIAL TO INCREASE THE DIRECT HUMAN EXPOSURE TO MINE WASTES, MANY MINE WASTE CLEAN-UP PROJECTS WERE IMPLEMENTED AS PROPERTY DEVELOPED.

ENVIRONMENTAL CONCERNS

CHEMICALS:

NOT REPORTED

EXPOSURE:

NOT REPORTED

SITE REMEDIATION:

THE CLEAN UP PLANS FOR THE CLEAR CREEK/CENTRAL CITY SUPERFUND SITE CALL FOR TREATMENT OF CONTAMINATED WATER DISCHARGING FROM A NUMBER OF DIFFERENT MINES, CAPPING OF TAILINGS AND WASTE ROCK PILES DETERMINED TO BE THE LARGEST SOURCES OF CONTAMINATION, FURTHER INVESTIGATION OF GROUND WATER, AND PLANS TO IDENTIFY CONTAMINATED DOMESTIC WELLS AND PROVIDE THE OWNERS WITH AN ALTERNATE SUPPLY OF DRINKING WATER.

Superfund Sites (SF)

THE ARGO TUNNEL, IN IDAHO SPRINGS, IS THE LARGEST SINGLE SOURCE OF METALS CONTAMINATION TO CLEAR CREEK. CONSTRUCTION OF A 700 GALLON PER MINUTE TREATMENT FACILITY WAS COMPLETED IN 1998. FULL TIME OPERATION OF THE TREATMENT PLANT BEGAN IN APRIL 1988. APPROXIMATELY 1200 POUNDS OF METALS ARE PREVENTED FROM ENTERING CLEAR CREEK EACH DAY DUE TO TREATMENT OF THE ARGO TUNNEL. THE REMOVED METALS ARE PRESSED INTO A SOLID WASTE AND DISPOSED OF IN A SOLID WASTE LANDFILL. THE TREATED WATER IS DISCHARGED INTO CLEAR CREEK.

AT THE BURLEIGH TUNNEL IN SILVER PLUME, THE DEPARTMENT CONSTRUCTED A PILOT SCALE PASSIVE TREATMENT SYSTEM TO TEST AN ALTERNATIVE TECHNOLOGY FOR TREATING ACID MINE DISCHARGE. ALTHOUGH ORIGINAL RESULTS WERE PROMISING, THE TECHNOLOGY WAS DETERMINED NOT TO BE APPROPRIATE FOR TREATING THE CONTAMINATED WATER FLOWING FROM THE BURLEIGH TUNNEL AND THE PILOT SYSTEM WAS DISMANTLED IN 1999. THE DEPARTMENT AND EPA CONTINUE TO MONITOR WATER QUALITY IN THE VICINITY AND ARE EXPLORING OTHER OPTIONS FOR THE BURLEIGH TUNNEL.

CLEAN-UP OF PRIORITY WASTE PILES BEGAN IN 1993, AND IS ON-GOING. BETWEEN 1993 AND 1999, THE DEPARTMENT AND EPA HAVE WORKED WITH A NUMBER OF GOVERNMENT ENTITIES, DEVELOPERS, INDIVIDUAL PROPERTY OWNERS, AND COMMUNITY STAKEHOLDERS TO COMPLETE CLEAN UP WORK AT TWELVE PRIORITY WASTE PILE LOCATIONS. WASTE PILES REMEDIATED IN CLEAR CREEK COUNTY INCLUDE THE MINNESOTA MINE NEAR EMPIRE, THE MCCLELLAND TAILINGS NEAR DUMONT, AND THE BLACK EAGLE AND LITTLE BEAR WASTE PILES NEAR IDAHO SPRINGS. IN THE BLACK HAWK/CENTRAL CITY AREA CLEAN-UP HAS BEEN COMPLETED AT THE MILLSITE #11 & #12, CHASE GULCH #1, GREGORY INCLINE, GREGORY #1, GREGORY #2, NATIONAL TUNNEL, CLAY COUNTY, NORTH CLEAR CREEK, BIG FIVE AND BOODLE MILL WASTE PILES. ADDITIONAL MINE WASTE PILE CLEAN-UPS ARE SCHEDULED .

THE DEPARTMENT AND EPA ARE ALSO TAKING STEPS TO ADDRESS GROUNDWATER CONTAMINATION IN SELECT PORTIONS OF THE SUPERFUND STUDY AREA. VIRGINIA CANYON DRAINS THE MOUNTAIN CANYONS NORTH OF IDAHO SPRINGS. GROUNDWATER IN THE VICINITY OF VIRGINIA CANYON IS CONTAMINATED BY THE LARGE CONCENTRATION OF ABANDONED MINES IN THE AREA. GROUNDWATER FLOW IS CONCENTRATED BY THE CANYON AND ENTERS CLEAR CREEK JUST UPSTREAM OF THE ARGO TUNNEL TREATMENT FACILITY. THE DEPARTMENT IS EVALUATING THE POTENTIAL MEAN AND VIABILITY OF EXTRACTING THE CONTAMINATED GROUNDWATER WITH FUTURE PLANS TO PUMP THE GROUNDWATER TO THE ARGO FACILITY FOR TREATMENT.

THE AGENCIES HAVE ALSO TAKEN STEPS TO PROTECT INDIVIDUAL HOME OWNERS WHO MIGHT BE DRINKING CONTAMINATED WATER FROM DOMESTIC WELLS. FROM 1994 THROUGH 1996, THE DEPARTMENT OPERATED A VOLUNTARY RESIDENTIAL WELL TESTING PROGRAM. UNDER THE PROGRAMS, OWNERS OF DOMESTIC WELLS WERE OFFERED FREE WELL WATER SAMPLING AND ANALYSIS. OWNERS WHOSE WELL WATER CONTAINED LEVELS OF METALS THAT EXCEEDED DRINKING WATER STANDARDS WERE SUPPLIED WITH BOTTLED WATER. ONLY A SMALL PERCENTAGE OF THE WELLS TESTED REQUIRED AN ALTERNATE SOURCE OF DRINKING WATER, AND THOSE HOMES HAVE BEEN RECEIVING BOTTLED WATER EVER SINCE. THE DEPARTMENT IS IN THE PROCESS OF SELECTING LONG TERM ALTERNATIVE DRINKING WATER SOURCES FOR THE HOMES AFFECTED BY CONTAMINATED WELL WATER.

THE DEPARTMENT AND EPA WILL COMPLETE REMEDIATION WORK REQUIRED BY EXISTING CLEAN-UP PLANS. THE AGENCIES HAVE ALSO BEEN WORKING WITH LOCAL WATERSHED STAKEHOLDERS TO IDENTIFY SIGNIFICANT SOURCES OF CONTAMINATION NOT COVERED BY EXISTING PLANS. THE GOAL OF THIS PROCESS IS TO COMPLETE WORK OUTLINED IN EXISTING PLANS, IDENTIFY AND DETERMINE APPROPRIATE CLEAN-UP PLANS FOR SIGNIFICANT CONTAMINATION SOURCES NOT INCLUDED IN EXISTING WORK PLANS, AND OVER THE LONG TERM, TO COMPLETE THE SUPERFUND CLEAN-UP OF THE CLEAR CREEK WATERSHED.

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Spills Listing (SPILLS)

MAP ID# 2

Distance from Property: 0.01 mi. W

INCIDENT INFORMATION

CASE NUMBER: 2007-0945 NRC NUMBER: 855375

SPILL DATE: 11/23/2007

SPILL LOCATION: I-70 WB EXIT 240

SPILL CITY/STATE/ZIP: IDAHO SPRINGS, CO

SPILL COUNTY: CLEAR CREEK

RESPONSIBLE PARTY

NAME: PAUL HARDRICK TRUCKING

ADDRESS: P.O. BOX 319

FLORENCE, CO 81226

COUNTY: NOT REPORTED

CONTACT: PAUL HARDRICK

PHONE: 719-252-9817

INCIDENT DETAILS

SOURCE: HIGHWAY/ROADWAY

SOURCE TYPE: MOTOR VEHICLE

MEDIUM: LAND

WATERWAY: NOT REPORTED

CAUSE: TRANSPORTATION ACCIDENT

MATERIAL TYPE: OIL

MATERIAL DESCRIPTION:
DIESEL

MATERIAL QUANTITY:
60 G

WATER QUANTITY:
NOT REPORTED

CAUSE INFORMATION:

AN SUV HIT A MEDIAN BARRIER, BOUNCED BACK INTO THE FLOW OF TRAFFIC AND HIT A SEMI TRUCK, RESULTING IN THE PUNCTURING OF THE SEMI TRUCK'S SADDLE TANK.

ACTION:

CUSTOM ENVIRONMENTAL WAS NOTIFIED FOR CLEANUP OF ALL IMPACTED AREAS. CSP HAZAMT DID APPLY ABSORBENT TO SPILLED DIESEL TO SECURE RELEASE. CLEANUP HAS BEEN COMPLETED.

RESPONSE COMMENTS:

NO WATERWAYS WERE IMPACTED.

COMMENTS:

CDOT-ANDY FLURKEY

[Back to Report Summary](#)

Emergency Response Notification System (ERNSCO)

MAP ID# 2

Distance from Property: 0.01 mi. W

INCIDENT INFORMATION

GSID#: 26672514

NRC ID#: 855375

INCIDENT LOCATION: EXIT 240 WESTBOUND ON I-70

INCIDENT ADDRESS: EXIT 240 WESTBOUND ON I-70

INCIDENT CITY: IDAHO SPRINGS

INCIDENT STATE: CO

INCIDENT ZIP: NOT REPORTED

INCIDENT COUNTY: CLEAR CREEK

RESPONSIBLE PARTY

COMPANY: HARDRICK TRUCKING

ADDRESS: NOT REPORTED

CITY: FLORENCE

STATE: CO

ZIP: 81226

INCIDENT DETAILS

INCIDENT DATE: 11/23/2007 20:30

INCIDENT CAUSE: TRANSPORT ACCIDENT

MATERIAL REACHED WATER: NO

REMEDIAL ACTION: ABSORBENTS APPLIED, CLEANUP COMPLETED

INCIDENT DESCRIPTION: {NO_MEMO_FILE_OPEN}

MATERIAL RELEASED/AMOUNT: OIL: DIESEL/60 GALLON(S)

OTHER MATERIAL RELEASED/AMOUNT: NOT REPORTED/NOT REPORTED NOT REPORTED

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Spills Listing (SPILLS)

MAP ID# 2

Distance from Property: 0.02 mi. SW

INCIDENT INFORMATION

CASE NUMBER: 2002-1206 NRC NUMBER: 0

SPILL DATE: 9/25/2002

SPILL LOCATION: I-70 AND COLORADO HWY 103

SPILL CITY/STATE/ZIP: IDAHO SPRINGS, CO

SPILL COUNTY: GILPIN

RESPONSIBLE PARTY

NAME: CHICAGO CREEK SANITATION DISTRICT

ADDRESS: P.O. BOX 634

IDAHO SPRINGS, CO 80452

COUNTY: NOT REPORTED

CONTACT: CRYSTAL MILLER

PHONE: 970-724-0817

INCIDENT DETAILS

SOURCE: PIPELINE

SOURCE TYPE: SANITARY SEWER/LIFT STATION

MEDIUM: WATER

WATERWAY: CLEAR CREEK

CAUSE: BLOCKAGE

MATERIAL TYPE: SANITARY SEWER OVERFLOW

MATERIAL DESCRIPTION:

SANITARY SEWER MATERIAL

MATERIAL QUANTITY:

100 G

WATER QUANTITY:

100 G

CAUSE INFORMATION:

ROCK IN SEWER LINE CAUSED BACK UP AND RELEASE OF MATERIAL. MATERIAL RELEASED FROM MANHOLE AND RAN INTO CLEAR CREEK.

ACTION:

BLOCKAGE CLEARED BY GILDNER PIPELINE MAINTENANCE.

RESPONSE COMMENTS:

NOT REPORTED

COMMENTS:

ADDRESS TO SEND ALL CORRESPONDENCE TO CHICAGO CREEK SANITATION IS: CRYSTAL MILLER P.O. BOX 556 K

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Leaking Storage Tank Facilities (LST)

[MAP ID# 3](#)

Distance from Property: 0.03 mi. NW

FACILITY INFORMATION

FACILITY ID: 18282

NAME: ORPHAN TANK AT 291 CR 308

ADDRESS: 291 CR 308

IDAHO SPRINGS, CO 80452

LEAKING INFORMATION

EVENT ID: STATUS: RELEASE DATE:

10358 CLOSED 5/16/2007 11:05

COSTIS LINK: http://costis.cdle.state.co.us/event.asp?h_id=10358

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Spills Listing (SPILLS)

MAP ID# 3

Distance from Property: 0.01 mi. W

INCIDENT INFORMATION

CASE NUMBER: **CO97-455** NRC NUMBER: **0**
SPILL DATE: **9/29/1997**
SPILL LOCATION: **DUMONT TRUCK STOP (I-70 & DUMONT)**
SPILL CITY/STATE/ZIP: **DUMONT, CO**
SPILL COUNTY: **CLEAR CREEK**

RESPONSIBLE PARTY

NAME: **CO DEPT OF TRANSPORTATION**
ADDRESS: **STREET NOT REPORTED**
CITY NOT REPORTED, NOT REPORTED
COUNTY: **NOT REPORTED**
CONTACT: **DAVE KYLE**
PHONE: **303-757-9243**

INCIDENT DETAILS

SOURCE: **HIGHWAY/ROADWAY**
SOURCE TYPE: **CDOT TRUCK**
MEDIUM: **LAND**
WATERWAY: **NOT REPORTED**
CAUSE: **F**
MATERIAL TYPE: **OIL**
MATERIAL DESCRIPTION: MATERIAL QUANTITY: WATER QUANTITY:
HYDRAULIC FLUID OR OIL **40 G** **NOT REPORTED**

CAUSE INFORMATION:
HYDRAULIC LINE SPRUNG A LEAK

ACTION:
COVERING SPILL W/FLOOR DRY & SAND. WILL DISPOSE @ LANDFILL W/IN NEXT COUPLE OF DAYS.

RESPONSE COMMENTS:

NOT REPORTED

COMMENTS:

NOT REPORTED

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Underground Storage Tank Facilities (UST)

MAP ID# 3

Distance from Property: 0.01 mi. W

FACILITY INFORMATION

FACILITY ID: 10644
NAME: BLACKWELL OIL CO INC
ADDRESS: I-70 & DUMONT EXIT
DUMONT, CO 80436

TOTAL TANK: 3

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=10644

TANK INFORMATION

TANK ID:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:	INSTALLATION DATE:
10644-1	UST	1 - UNLEADED REGULAR (RUL)	10000	OPEN	01-JAN-73
10644-2	UST	DIESEL #1	10000	OPEN	01-JAN-73
10644-3	UST	DIESEL DYED #2	10000	OPEN	01-JAN-73

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Aboveground Storage Tank Facilities (AST)

MAP ID# 3

Distance from Property: 0.03 mi. NW

FACILITY INFORMATION

FACILITY ID: 18282

NAME: ORPHAN TANK AT 291 CR 308

ADDRESS: 291 CR 308
DUMONT, CO 80436

TOTAL TANK: 1

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=18282

TANK INFORMATION

TANK ID: TANK TYPE:

NR NOT REPORTED

TANK PRODUCT:

NOT REPORTED

TANK CAPACITY: TANK STATUS:

NOT REPORTED NOT REPORTED

INSTALLATION DATE:

NOT REPORTED

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Resource Conservation & Recovery Act - Generator Facilities (RCRAGR08)

MAP ID# 4

Distance from Property: 0.01 mi. W

FACILITY INFORMATION

EPA ID#: **COD983773581**

NAME: **COLORADO DEPT OF TRANS - IDAHO SPRINGS**

ADDRESS: **1-70 MP 241.05**

IDAHO SPRINGS, CO 80452

CONTACT NAME: **DAVID KILE**

CONTACT ADDRESS: **18500 EAST COLFAX
AURORA, CO 80011**

CONTACT PHONE: **3033657123**

NON-NOTIFIER: **NOT A NON-NOTIFIER**

DATE RECEIVED BY AGENCY: **02/14/2007**

OWNER TYPE: **STATE**

OWNER NAME: **COLORADO DEPT OF TRANS**

OPERATOR TYPE: **STATE**

OPERATOR NAME: **COLORADO DEPT OF TRANS**

CERTIFICATION

CERTIFICATION NAME:

DAVID KILE

CERTIFICATION TITLE:

MGR

CERTIFICATION SIGNED DATE:

20070209

INDUSTRY CLASSIFICATION (NAICS)

23731 - HIGHWAY, STREET, AND BRIDGE CONSTRUCTION

SITE HISTORY (INCLUDES GENERATORS AND NON-GENERATORS)

DATE RECEIVED BY AGENCY: **02/14/07**

NAME: **COLORADO DEPT OF TRANS - IDAHO SPRINGS**

GENERATOR CLASSIFICATION: **LARGE QUANTITY GENERATOR**

DATE RECEIVED BY AGENCY: **05/13/93**

NAME: **COLORADO DEPT OF HWYS - IDAHO SP**

GENERATOR CLASSIFICATION: **LARGE QUANTITY GENERATOR**

ACTIVITY INFORMATION

GENERATOR STATUS: **CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR**

SUBJECT TO CORRECTIVE ACTION UNIVERSE: **NO**

TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: **NO**

TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: **NO**

NON TDSFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: **NO**

CORRECTIVE ACTION WORKLOAD UNIVERSE: **NO**

IMPORTER: **NO**

UNDERGROUND INJECTION: **NO**

MIXED WASTE GENERATOR: **NO**

UNIVERSAL WASTE DESTINATION FACILITY: **NO**

RECYCLER: **NO**

TRANSFER FACILITY: **NO**

TRANSPORTER: **NO**

USED OIL FUEL BURNER: **NO**

ONSITE BURNER EXEMPTION: **NO**

USED OIL PROCESSOR: **NO**

FURNACE EXEMPTION: **NO**

USED OIL FUEL MARKETER TO BURNER: **NO**

USED OIL REFINER: **NO**

SPECIFICATION USED OIL MARKETER: **NO**

USED OIL TRANSFER FACILITY: **NO**

USED OIL TRANSPORTER: **NO**

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS - NO EVALUATIONS REPORTED -

VIOLATIONS - NO VIOLATIONS REPORTED -

ENFORCEMENTS - NO ENFORCEMENTS REPORTED -

GeoSearch

www.geo-search.com 888-396-0042

**Resource Conservation & Recovery Act - Generator Facilities
(RCRAGR08)**

HAZARDOUS WASTE

D001 **IGNITABLE WASTE**
 D002 **CORROSIVE WASTE**
 D008 **LEAD**
 D035 **METHYL ETHYL KETONE**
 D039 **TETRACHLOROETHYLENE**

UNIVERSAL WASTE

WASTE TYPE:	ACCUMULATED WASTE ON-SITE:	GENERATED WASTE ON-SITE:	SOURCE TYPE:
NOT REPORTED	NO	NO	NOTIFICATION
BATTERIES	NO	NOT REPORTED	NOTIFICATION
OTHER	NO	NO	NOTIFICATION
LAMPS	NO	NOT REPORTED	NOTIFICATION
MERCURY-CONTAINING DEVICES	NO	NO	NOTIFICATION
PESTICIDES	NO	NOT REPORTED	NOTIFICATION
MERCURY CONTAINING EQUIPMENT	NO	NOT REPORTED	NOTIFICATION

CORRECTIVE ACTION AREA - NO CORECTIVE ACTION AREA INFORMATION REPORTED -

CORRECTIVE ACTION EVENT - NO CORECTIVE ACTION EVENT REPORTED -

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Underground Storage Tank Facilities (UST)

MAP ID# 4

Distance from Property: 0.01 mi. W

FACILITY INFORMATION

FACILITY ID: 7418

NAME: CDOT IDAHO SPRINGS

ADDRESS: HWY 70 MP 241.05

IDAHO SPRINGS, CO 80452

TOTAL TANK: 4

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=7418

TANK INFORMATION

TANK ID:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:	INSTALLATION DATE:
7418-1	UST	4 - DIESEL	10000	CLOSED	14-MAR-48
7418-2	UST	6 - USED OIL (WASTE OIL)	500	CLOSED	14-MAR-48
7418-3	UST	4 - DIESEL	2000	CLOSED	14-MAR-48
7418-4	UST	6 - USED OIL (WASTE OIL)	500	CLOSED	14-MAR-48

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Emergency Response Notification System (ERNSCO)

MAP ID# 5

Distance from Property: 0.01 mi. W

INCIDENT INFORMATION

GSID#: 605113636

NRC ID#: 792447

INCIDENT LOCATION: I-70 / MILE POST 234

INCIDENT ADDRESS: I-70 / MILE POST 234

INCIDENT CITY: DUMONT

INCIDENT STATE: CO

INCIDENT ZIP: NOT REPORTED

INCIDENT COUNTY: CLEAR CREEK

RESPONSIBLE PARTY

COMPANY: CALFRAC WELL SERVICES

ADDRESS: NOT REPORTED

CITY: PLATTEVILLE

STATE: CO

ZIP: 80651

INCIDENT DETAILS

INCIDENT DATE: 3/29/2006 12:54

INCIDENT CAUSE: EQUIPMENT FAILURE

MATERIAL REACHED WATER: NO

REMEDIAL ACTION: INITIAL RESPONSE WAS SECUREMENT OF THE AREA / ATTEMPTED TO STOP THE LEAK / OFFLOADED THE TRUCK

INCIDENT DESCRIPTION: {NO_MEMO_FILE_OPEN}

MATERIAL RELEASED/AMOUNT: HYDROCHLORIC ACID/15 GALLON(S)

OTHER MATERIAL RELEASED/AMOUNT: NOT REPORTED/NOT REPORTED NOT REPORTED

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Emergency Response Notification System (ERNSCO)

MAP ID# 6

Distance from Property: 0.01 mi. W

INCIDENT INFORMATION

GSID#: 2570796602

NRC ID#: 720068

INCIDENT LOCATION: INTERSTATE 70 MILE MARKER 239

INCIDENT ADDRESS: INTERSTATE 70 MILE MARKER 239

INCIDENT CITY: IDAHO SPRINGS

INCIDENT STATE: CO

INCIDENT ZIP: NOT REPORTED

INCIDENT COUNTY: CLEAR CREEK

RESPONSIBLE PARTY

COMPANY: NOT REPORTED

ADDRESS: NOT REPORTED

CITY: GRANBY

STATE: CO

ZIP: NOT REPORTED

INCIDENT DETAILS

INCIDENT DATE: 4/25/2004

INCIDENT CAUSE: TRANSPORT ACCIDENT

MATERIAL REACHED WATER: NO

REMEDIAL ACTION: CONTRACTOR HAS BEEN HIRED

INCIDENT DESCRIPTION: {NO_MEMO_FILE_OPEN}

MATERIAL RELEASED/AMOUNT: OIL: DIESEL/80 GALLON(S)

OTHER MATERIAL RELEASED/AMOUNT: NOT REPORTED/NOT REPORTED NOT REPORTED

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GeoSearch

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Hazardous Materials Incident Reporting System (HMIRSR08)

MAP ID# 7

Distance from Property: 0.01 mi. NW

INCIDENT INFORMATION

REPORT #: I-2002010020

DATE: 11/9/2001

INCIDENT LOCATION:

I-70 WB MM 235

DUMONT, CO

CLEAR CREEK COUNTY

CARRIER INFORMATION

NAME: IOWA TANKLINES INC

ADDRESS: 7722 F STREET

OMAHA, NE 68127

MODE OF TRANSPORTATION: HIGHWAY

TRANSPORTATION PHASE: IN TRANSIT

COMMODITY DETAILS

IDENTIFICATION NUMBER: UN1203

COMMODITY SHIPPING NAME: GASOLINE

TRADE NAME: GASOLINE

QUANTITY RELEASED: 8201 LIQUID - GALLON

PACKAGING: CARGO TANK MOTOR VEHICLE (CTMV)

FAILURE DESCRIPTION

WHAT FAILED: 103; BASIC MATERIAL;

HOW FAILED: 303; - BURST OR RUPTURED;

FAILURE CAUSE DESCRIPTION:

531; 537 - ROLLOVER ACCIDENT; VEHICULAR CRASH OR ACCIDENT DAMAGE

DESCRIPTION OF EVENTS:

DRIVER HEADING WEST ON I-70 TIRES SLIPPED OFF ON SOFT SHOULDER OVER CORRECTED AND ROLLED TRACTOR

TRAILER GASOLINE LEAKED FROM TRAILER. FIRE DEPARTMENT AND HAZMAT UNITS RESPONDED. A CLEAN UP

CONTRACTOR WAS ON THE SCENE.

RECOMMENDATIONS/ACTIONS TAKEN:

NO ACTION OR RECOMMENDATION REPORTED

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Spills Listing (SPILLS)

MAP ID# 8

Distance from Property: 0.02 mi. S

INCIDENT INFORMATION

CASE NUMBER: 2012-0313

NRC NUMBER: 0

SPILL DATE: 5/7/2012

SPILL LOCATION: OFFRAMP OF EB I-70 EXIT 233 (LAWSON EXIT) ON RIGHT HAND SIDE, JUST BEFORE STOP SIGN

SPILL CITY/STATE/ZIP: LAWSON, CO

SPILL COUNTY: CLEAR CREEK

RESPONSIBLE PARTY

NAME: NOT REPORTED

ADDRESS: STREET NOT REPORTED

CITY NOT REPORTED, CO

COUNTY: NOT REPORTED

CONTACT: NOT REPORTED

PHONE: NOT REPORTED

INCIDENT DETAILS

SOURCE: HIGHWAY/ROADWAY

SOURCE TYPE: MOTOR VEHICLE

MEDIUM: NOT REPORTED

WATERWAY: NOT REPORTED

CAUSE: DUMPING

MATERIAL TYPE: OIL

MATERIAL DESCRIPTION:

MOTOR OIL

MATERIAL QUANTITY:

10 QUARTS

WATER QUANTITY:

NOT REPORTED

CAUSE INFORMATION:

CALLER FROM CDOT REPORTS THAT THERE ARE TWO 5 QUART JUGS OF USED MOTOR OIL ON THE ROADSIDE. CALLER SUSPECTS THAT THEY ARE FROM A TRUCKER CHANGING THEIR OIL. THE JUGS ARE GREY AND SAY "MOBILE 1" ON THEM.

ACTION:

NOT REPORTED

RESPONSE COMMENTS:

NOT REPORTED

COMMENTS:

NOT REPORTED

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Resource Conservation & Recovery Act - Generator Facilities (RCRAGR08)

MAP ID# 9

Distance from Property: 0.03 mi. NW

FACILITY INFORMATION

EPA ID#: COD980961742

NAME: PSCO-DUMONT SC

ADDRESS: 681 CR 308

DUMONT, CO 80436

CONTACT NAME: TERRY STALEY

CONTACT ADDRESS: 4653 TABLE MOUNTAIN DR

GOLDEN, CO 80202

CONTACT PHONE: 7204972107

NON-NOTIFIER: NOT A NON-NOTIFIER

DATE RECEIVED BY AGENCY: 01/09/2009

OWNER TYPE: PRIVATE

OWNER NAME: 1480 WELTON

OPERATOR TYPE: PRIVATE

OPERATOR NAME: PSCO-DUMONT SC

CERTIFICATION

CERTIFICATION NAME:

CERTIFICATION TITLE:

CERTIFICATION SIGNED DATE:

R KIM MONTGOMERY

MGR

20081216

INDUSTRY CLASSIFICATION (NAICS)

221119 - OTHER ELECTRIC POWER GENERATION

SITE HISTORY (INCLUDES GENERATORS AND NON-GENERATORS)

DATE RECEIVED BY AGENCY: 01/09/09

NAME: PSCO-DUMONT SC

GENERATOR CLASSIFICATION: LARGE QUANTITY GENERATOR

DATE RECEIVED BY AGENCY: 06/25/86

NAME: PUBLIC SERVICE FRONT RANGE WEST

GENERATOR CLASSIFICATION: LARGE QUANTITY GENERATOR

ACTIVITY INFORMATION

GENERATOR STATUS: **CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR**

SUBJECT TO CORRECTIVE ACTION UNIVERSE: **NO**

TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: **NO**

TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: **NO**

NON TDSFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: **NO**

CORRECTIVE ACTION WORKLOAD UNIVERSE: **NO**

IMPORTER: **NO**

UNDERGROUND INJECTION: **NO**

MIXED WASTE GENERATOR: **NO**

UNIVERSAL WASTE DESTINATION FACILITY: **NO**

RECYCLER: **NO**

TRANSFER FACILITY: **NO**

TRANSPORTER: **NO**

USED OIL FUEL BURNER: **NO**

ONSITE BURNER EXEMPTION: **NO**

USED OIL PROCESSOR: **NO**

FURNACE EXEMPTION: **NO**

USED OIL FUEL MARKETER TO BURNER: **NO**

USED OIL REFINER: **NO**

SPECIFICATION USED OIL MARKETER: **NO**

USED OIL TRANSFER FACILITY: **NO**

USED OIL TRANSPORTER: **NO**

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS - **NO EVALUATIONS REPORTED -**

VIOLATIONS - **NO VIOLATIONS REPORTED -**

ENFORCEMENTS - **NO ENFORCEMENTS REPORTED -**

GeoSearch www.geo-search.com 888-396-0042

**Resource Conservation & Recovery Act - Generator Facilities
(RCRAGR08)**

HAZARDOUS WASTE

D001 IGNITABLE WASTE
D002 CORROSIVE WASTE

UNIVERSAL WASTE

WASTE TYPE:	ACCUMULATED WASTE ON-SITE:	GENERATED WASTE ON-SITE:	SOURCE TYPE:
NOT REPORTED	NO	NO	NOTIFICATION
BATTERIES	NO	NOT REPORTED	NOTIFICATION
OTHER	NO	NO	NOTIFICATION
LAMPS	NO	NOT REPORTED	NOTIFICATION
MERCURY-CONTAINING DEVICES	NO	NO	NOTIFICATION
PESTICIDES	NO	NOT REPORTED	NOTIFICATION
MERCURY CONTAINING EQUIPMENT	NO	NOT REPORTED	NOTIFICATION

CORRECTIVE ACTION AREA - NO CORECTIVE ACTION AREA INFORMATION REPORTED -

CORRECTIVE ACTION EVENT - NO CORECTIVE ACTION EVENT REPORTED -

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Emergency Response Notification System (ERNSCO)

MAP ID# 10

Distance from Property: 0.04 mi. NW

INCIDENT INFORMATION

GSID#: 1279464214

NRC ID#: 811467

INCIDENT LOCATION: SODA CREEK SOUTH OF MINOR ST.

INCIDENT ADDRESS: SODA CREEK SOUTH OF MINOR ST.

INCIDENT CITY: IDAHO SPRINGS

INCIDENT STATE: CO

INCIDENT ZIP: NOT REPORTED

INCIDENT COUNTY: CLEAR CREEK

RESPONSIBLE PARTY

COMPANY: NOT REPORTED

ADDRESS: NOT REPORTED

CITY: NOT REPORTED

STATE: XX

ZIP: NOT REPORTED

INCIDENT DETAILS

INCIDENT DATE: 9/14/2006 14:00

INCIDENT CAUSE: UNKNOWN

MATERIAL REACHED WATER: YES

REMEDIAL ACTION: NONE

INCIDENT DESCRIPTION: {NO_MEMO_FILE_OPEN}

MATERIAL RELEASED/AMOUNT: UNKNOWN MATERIAL/ UNKNOWN AMOUNT

OTHER MATERIAL RELEASED/AMOUNT: NOT REPORTED/NOT REPORTED NOT REPORTED

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Underground Storage Tank Facilities (UST)

MAP ID# 10

Distance from Property: 0.04 mi. NW

FACILITY INFORMATION

FACILITY ID: 10636

NAME: IDAHO SPRINGS LUMBER CO

ADDRESS: 1965 MINER ST

IDAHO SPRINGS, CO 80452

TOTAL TANK: 2

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=10636

TANK INFORMATION

TANK ID:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:	INSTALLATION DATE:
10636-1	UST	4 - DIESEL	1000	CLOSED	01-JAN-73
10636-2	UST	GASOLINE	1000	CLOSED	01-JAN-73

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**Resource Conservation & Recovery Act - Non-Generator Facilities
(RCRANGR08)**

MAP ID# 11

Distance from Property: 0.04 mi. N

FACILITY INFORMATION

EPA ID#: **COR000202523**

NAME: **REVOLUTION AUTO & TOWING**

ADDRESS: **909 CNTY RD 308**

DUMONT, CO 80436

OWNER TYPE: **NOT REPORTED**

OWNER NAME: **NOT REPORTED**

OPERATOR TYPE: **NOT REPORTED**

OPERATOR NAME: **NOT REPORTED**

CONTACT NAME: **NOT REPORTED**

CONTACT ADDRESS: **909 CNTY RD 308**

DUMONT, CO 80436

CONTACT PHONE: **NOT REPORTED**

NON-NOTIFIER: **X**

DATE RECEIVED BY AGENCY: **10/15/2001**

CERTIFICATION - **NO CERTIFICATION REPORTED -**

INDUSTRY CLASSIFICATION (NAICS) - **NO NAICS INFORMATION REPORTED -**

SITE HISTORY (INCLUDES GENERATORS AND NON-GENERATORS)

DATE RECEIVED BY AGENCY: **10/15/01**

NAME: **REVOLUTION AUTO & TOWING**

GENERATOR CLASSIFICATION: **NOT A GENERATOR**

ACTIVITY INFORMATION

GENERATOR STATUS: **NOT A GENERATOR**

SUBJECT TO CORRECTIVE ACTION UNIVERSE: **NO**

TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: **NO**

TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: **NO**

NON TDSFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: **NO**

CORRECTIVE ACTION WORKLOAD UNIVERSE: **NO**

IMPORTER: **NO**

UNDERGROUND INJECTION: **NO**

MIXED WASTE GENERATOR: **NO**

UNIVERSAL WASTE DESTINATION FACILITY: **NO**

RECYCLER: **NO**

TRANSFER FACILITY: **NO**

TRANSPORTER: **NO**

USED OIL FUEL BURNER: **NO**

ONSITE BURNER EXEMPTION: **NO**

USED OIL PROCESSOR: **NO**

FURNACE EXEMPTION: **NO**

USED OIL FUEL MARKETER TO BURNER: **NO**

USED OIL REFINER: **NO**

SPECIFICATION USED OIL MARKETER: **NO**

USED OIL TRANSFER FACILITY: **NO**

USED OIL TRANSPORTER: **NO**

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS

2001/10/15 CEI COMPLIANCE EVALUATION INSPECTION ON-SITE

VIOLATIONS - **NO VIOLATIONS REPORTED -**

ENFORCEMENTS - **NO ENFORCEMENTS REPORTED -**

HAZARDOUS WASTE

- **NO HAZARDOUS WASTE INFORMATION REPORTED -**

UNIVERSAL WASTE - **NO UNIVERSAL WASTE REPORTED -**

CORRECTIVE ACTION AREA - **NO CORECTIVE ACTION AREA INFORMATION REPORTED -**

**Resource Conservation & Recovery Act - Non-Generator Facilities
(RCRANGR08)**

CORRECTIVE ACTION EVENT - NO CORECTIVE ACTION EVENT REPORTED -

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Spills Listing (SPILLS)

MAP ID# 12

Distance from Property: 0.05 mi. NW

INCIDENT INFORMATION

CASE NUMBER: 2007-1005 NRC NUMBER: 0

SPILL DATE: 12/25/2007

SPILL LOCATION: 2911 COLORADO BLVD.

SPILL CITY/STATE/ZIP: IDAHO SPRINGS, CO 80452

SPILL COUNTY: GILPIN

RESPONSIBLE PARTY

NAME: MCDONALD'S

ADDRESS: 2911 COLORADO BLVD.

IDAHO SPRINGS, CO 80452

COUNTY: NOT REPORTED

CONTACT: JIM BOSELLI

PHONE: 720-621-2773

INCIDENT DETAILS

SOURCE: SANITARY SEWER

SOURCE TYPE: SANITARY SEWER/LIFT STATION

MEDIUM: FIXED FACILITY

WATERWAY: NOT REPORTED

CAUSE: FAILURE EQUIPMENT

MATERIAL TYPE: SANITARY SEWER OVERFLOW

MATERIAL DESCRIPTION:

WASTEWATER

MATERIAL QUANTITY:

25 G

WATER QUANTITY:

NOT REPORTED

CAUSE INFORMATION:

MOTOR ON A PUMP AT A LIFT STATION FAILED ALLOWING FOR RELEASE OF WASTEWATER FROM FACILITY.

ACTION:

PUMP WAS TURNED OFF AND A NEW PUMP WAS INSTALLED. IMPACTED AREAS WERE CLEANED AND FACILITY IS BACK IN SERVICE.

RESPONSE COMMENTS:

NO WATERWAYS WERE IMPACTED.

COMMENTS:

NOT REPORTED

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Spills Listing (SPILLS)

MAP ID# 12

Distance from Property: 0.05 mi. NW

INCIDENT INFORMATION

CASE NUMBER: 2011-0626 NRC NUMBER: 0

SPILL DATE: 9/3/2011

SPILL LOCATION: 2911 COLORADO BLVD

SPILL CITY/STATE/ZIP: IDAHO SPRINGS, CO 80452

SPILL COUNTY: CLEAR CREEK

RESPONSIBLE PARTY

NAME: MCDONALD'S

ADDRESS: 2911 COLORADO BLVD

IDAHO SPRINGS, CO 80452

COUNTY: CLEAR CREEK

CONTACT: RUDY, MANAGER

PHONE: 303-567-1410

INCIDENT DETAILS

SOURCE: SANITARY SEWER

SOURCE TYPE: SANITARY SEWER/LIFT STATION

MEDIUM: LAND

WATERWAY: STORM DRAINS --> GRASSY AREA BY INTERSTATE

CAUSE: FAILURE EQUIPMENT

MATERIAL TYPE: SANITARY SEWER OVERFLOW

MATERIAL DESCRIPTION:

SEWAGE

MATERIAL QUANTITY:

8400 G

WATER QUANTITY:

8400 G

CAUSE INFORMATION:

CALLER REPORTS THAT THE LIFT PUMP FOR THE LIFT STATION OWNED BY MCDONALD'S ON THIS PROPERTY NEEDS TO BE REPLACED. THEY HAVE ORDERED A NEW ONE FROM GERMANY. THIS REPORT IS FOR THE MIDDLE OF 3 SPILLS FROM 8/30 - 9/3/11. THE OTHER TWO REPORTS WILL BE 2011

ACTION:

AFTER THE THIRD EVENT OF A RELEASE FROM THIS LIFT STATION, WHICH OCCURRED AT 6 P.M., ONLY 7 HOURS AFTER THIS RELEASE, THE CITY OF IDAHO SPRINGS SHUT OFF THE WATER TO THIS MCDONALD'S, FORCING THEM TO CLOSE. THEY TURNED THE WATER BACK ON FOR THEM ON SUNDAY

RESPONSE COMMENTS:

CALLER'S EMAIL: PW@IDAHOSPRINGSCO.COM; FAX: 303-567-0124; CALLER DID CALL ON 8/31/11 TO REPORT THE FIRST RELEASE, BUT SOMEHOW WE GOT HIS PHONE NUMBER WRITTEN DOWN INCORRECTLY AND WERE UNABLE TO CALL HIM BACK. THE MESSAGE WAS NOT VERY CLEAR SO WE WEREN'T

COMMENTS:

NOT REPORTED

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GeoSearch

www.geo-search.com 888-396-0042

Spills Listing (SPILLS)

MAP ID# 12

Distance from Property: 0.05 mi. NW

INCIDENT INFORMATION

CASE NUMBER: 2011-0625 NRC NUMBER: 0

SPILL DATE: 8/30/2011

SPILL LOCATION: 2911 COLORADO BLVD,

SPILL CITY/STATE/ZIP: IDAHO SPRINGS, CO 80452

SPILL COUNTY: CLEAR CREEK

RESPONSIBLE PARTY

NAME: MCDONALD'S

ADDRESS: 2911 COLORADO BLVD

IDAHO SPRINGS, CO 80452

COUNTY: CLEAR CREEK

CONTACT: RUDY, MANAGER

PHONE: 303-567-1410

INCIDENT DETAILS

SOURCE: SANITARY SEWER

SOURCE TYPE: SANITARY SEWER/LIFT STATION

MEDIUM: WATER AND LAND

WATERWAY: STORM DRAIN

CAUSE: FAILURE EQUIPMENT

MATERIAL TYPE: SANITARY SEWER OVERFLOW

MATERIAL DESCRIPTION:

SEWAGE

MATERIAL QUANTITY:

50 UNKNOWN

WATER QUANTITY:

50 U

CAUSE INFORMATION:

LIFT PUMP FOR THE LIFT STATION OWNED BY MCDONALD'S ON THIS PROPERTY NEEDS TO BE REPLACED. THEY HAVE ORDERED A NEW ONE FROM GERMANY. THIS REPORT IS FOR THE FIRST OF 3 SUCH RELEASES. THE AMOUNT OF THE RELEASE ON 8/30/11 IS UNKNOWN. SEWAGE DID GO INTO A

ACTION:

NOT REPORTED

RESPONSE COMMENTS:

REFER TO THE OTHER TWO RELATED SPILLS 2011-0626 AND 2011-0627. DOUG CAMRUD IS LOOKING INTO THIS SITUATION.

COMMENTS:

NOT REPORTED

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Spills Listing (SPILLS)

MAP ID# 12

Distance from Property: 0.05 mi. NW

INCIDENT INFORMATION

CASE NUMBER: 2011-0627 NRC NUMBER: 0

SPILL DATE: 9/3/2011

SPILL LOCATION: 2911 COLORADO BLVD

SPILL CITY/STATE/ZIP: IDAHO SPRINGS, CO 80452

SPILL COUNTY: CLEAR CREEK

RESPONSIBLE PARTY

NAME: MCDONALD'S

ADDRESS: 2911 COLORADO BLVD

IDAHO SPRINGS, CO 80452

COUNTY: CLEAR CREEK

CONTACT: RUDY, MANAGER

PHONE: 303-567-0124

INCIDENT DETAILS

SOURCE: SANITARY SEWER

SOURCE TYPE: SANITARY SEWER/LIFT STATION

MEDIUM: WATER AND LAND

WATERWAY: STORM DRAIN

CAUSE: FAILURE EQUIPMENT

MATERIAL TYPE: SANITARY SEWER OVERFLOW

MATERIAL DESCRIPTION:

SEWAGE

MATERIAL QUANTITY:

50 UNKNOWN

WATER QUANTITY:

50 U

CAUSE INFORMATION:

LIFT PUMP FOR THE LIFT STATION OWNED BY MCDONALD'S ON THIS PROPERTY NEEDS TO BE REPLACED. THEY HAVE ORDERED A NEW ONE FROM GERMANY. THIS REPORT IS FOR THE THIRD OF 3 SUCH RELEASES. THE AMOUNT OF THIS SECOND RELEASE ON 9/3/11 IS UNKNOWN. SEWAGE DID GO

ACTION:

THE CITY SHUT OFF THE WATER TO THE STORE AND FORCED THEM TO CLOSE FOR THE DAY AFTER THIS RELEASE. THE WATER WAS TURNED BACK ON ON 9/4/11.

RESPONSE COMMENTS:

DOUG CAMRUD WAS GOING TO LOOK INTO THIS AFTER THE FIRST REPORT, 2011-0626, WAS SENT OUT ON 9/6/11.

COMMENTS:

NOT REPORTED

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Spills Listing (SPILLS)

MAP ID# 12

Distance from Property: 0.05 mi. NW

INCIDENT INFORMATION

CASE NUMBER: 2013-0263 NRC NUMBER: 0

SPILL DATE: 4/21/2013

SPILL LOCATION: 2911 COLORADO BLVD

SPILL CITY/STATE/ZIP: IDAHO SPRINGS, CO 80452

SPILL COUNTY: CLEAR CREEK

RESPONSIBLE PARTY

NAME: MCDONALDS

ADDRESS: 2911 COLORADO BLVD

IDAHO SPRINGS, CO 80452

COUNTY: CLEAR CREEK

CONTACT: UNKNOWN

PHONE: NOT REPORTED

INCIDENT DETAILS

SOURCE: SANITARY SEWER

SOURCE TYPE: SANITARY SEWER/LIFT STATION

MEDIUM: WATER AND LAND

WATERWAY: STORM DRAIN --> FIELD

CAUSE: UNKNOWN

MATERIAL TYPE: SANITARY SEWER OVERFLOW

MATERIAL DESCRIPTION:

SEWAGE

MATERIAL QUANTITY:

1000 GALLONS

WATER QUANTITY:

1000 G

CAUSE INFORMATION:

CALLER DROVE PAST THE MCDONALD'S AND NOTICED THAT WATER WAS COMING UP FROM THE MANHOLE ON MCDONALD'S PROPERTY. HE DOES NOT KNOW HOW LONG IT HAD BEEN BACKING UP. THE WATER WAS SPURTING UP 3 INCHES ABOVE THE MANHOLE, AND THERE WAS A PUDDLE AROUND THE MANH

ACTION:

NOT REPORTED

RESPONSE COMMENTS:

NOT REPORTED

COMMENTS:

CALLER'S EMAIL: PW@IDAHO SPRINGS CO.COM. HE IS WILLING TO DO THE REPORT.

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GeoSearch

www.geo-search.com 888-396-0042

Underground Storage Tank Facilities (UST)

MAP ID# 12

Distance from Property: 0.05 mi. NW

FACILITY INFORMATION

FACILITY ID: 15075

NAME: K & G STORE #528

ADDRESS: 2911 COLORADO BLVD
IDAHO SPRINGS, CO 80452

TOTAL TANK: 3

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=15075

TANK INFORMATION

TANK ID:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:	INSTALLATION DATE:
15075-1	UST	1 - UNLEADED REGULAR (RUL)	10000	OPEN	01-AUG-99
15075-2	UST	2 - UNLEADED MID- GRADE (MUL)	10000	OPEN	01-AUG-99
15075-3	UST	3 - UNLEADED PREMIUM (PUL)	10000	OPEN	01-AUG-99

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**Resource Conservation & Recovery Act - Non-Generator Facilities
(RCRANGR08)**

MAP ID# 12

Distance from Property: 0.05 mi. NW

FACILITY INFORMATION

EPA ID#: **COR000209387**

NAME: **BP FACILITY #70482**

ADDRESS: **2911 COLORADO BLVD**

IDAHO SPRINGS, CO 80452

CONTACT NAME: **SCOTT HARTWELL**

CONTACT ADDRESS: **P O BOX 6038**

ARTESIA, CA 90702

CONTACT PHONE: **7146715248**

NON-NOTIFIER: **NOT A NON-NOTIFIER**

DATE RECEIVED BY AGENCY: **10/02/2006**

OWNER TYPE: **PRIVATE**

OWNER NAME: **BP PRODUCTS NORTH AMERICA INC**

OPERATOR TYPE: **PRIVATE**

OPERATOR NAME: **BP FACILITY #70482**

CERTIFICATION

CERTIFICATION NAME:

SCOTT HARTWELL

SCOTT HARTWELL

CERTIFICATION TITLE:

ENV COMPLIANCE SPECIALIST

ENV COMPLIANCE SPECIALIST

CERTIFICATION SIGNED DATE:

20040916

20061002

INDUSTRY CLASSIFICATION (NAICS)

44711 - GASOLINE STATIONS WITH CONVENIENCE STORES

SITE HISTORY (INCLUDES GENERATORS AND NON-GENERATORS)

DATE RECEIVED BY AGENCY: **10/02/06**

NAME: **BP FACILITY #70482**

GENERATOR CLASSIFICATION: **NOT A GENERATOR**

DATE RECEIVED BY AGENCY: **09/20/04**

NAME: **BP FACILITY #70482**

GENERATOR CLASSIFICATION: **SMALL QUANTITY GENERATOR**

ACTIVITY INFORMATION

GENERATOR STATUS: **NOT A GENERATOR**

SUBJECT TO CORRECTIVE ACTION UNIVERSE: **NO**

TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: **NO**

TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: **NO**

NON TDSFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: **NO**

CORRECTIVE ACTION WORKLOAD UNIVERSE: **NO**

IMPORTER: **NO**

MIXED WASTE GENERATOR: **NO**

RECYCLER: **NO**

TRANSPORTER: **NO**

ONSITE BURNER EXEMPTION: **NO**

FURNACE EXEMPTION: **NO**

USED OIL REFINER: **NO**

USED OIL TRANSFER FACILITY: **NO**

UNDERGROUND INJECTION: **NO**

UNIVERSAL WASTE DESTINATION FACILITY: **NO**

TRANSFER FACILITY: **NO**

USED OIL FUEL BURNER: **NO**

USED OIL PROCESSOR: **NO**

USED OIL FUEL MARKETER TO BURNER: **NO**

SPECIFICATION USED OIL MARKETER: **NO**

USED OIL TRANSPORTER: **NO**

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS - NO EVALUATIONS REPORTED -

VIOLATIONS - NO VIOLATIONS REPORTED -

GeoSearch www.geo-search.com 888-396-0042

**Resource Conservation & Recovery Act - Non-Generator Facilities
(RCRANGR08)**

ENFORCEMENTS - NO ENFORCEMENTS REPORTED -

HAZARDOUS WASTE

D001 **IGNITABLE WASTE**

D018 **BENZENE**

UNIVERSAL WASTE - NO UNIVERSAL WASTE REPORTED -

CORRECTIVE ACTION AREA - NO CORECTIVE ACTION AREA INFORMATION REPORTED -

CORRECTIVE ACTION EVENT - NO CORECTIVE ACTION EVENT REPORTED -

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Leaking Storage Tank Facilities (LST)

MAP ID# 12

Distance from Property: 0.06 mi. NW

FACILITY INFORMATION

FACILITY ID: 7418

NAME: CDOT IDAHO SPRINGS

ADDRESS: 2931 COLORADO BLVD

N SIDE HWY 70A MP 241.05

IDAHO SPRINGS, CO 80452

LEAKING INFORMATION

EVENT ID: STATUS: RELEASE DATE:

3341 CLOSED 10/18/1991

COSTIS LINK: http://costis.cdle.state.co.us/event.asp?h_id=3341

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Underground Storage Tank Facilities (UST)

MAP ID# 13

Distance from Property: 0.05 mi. NW

FACILITY INFORMATION

FACILITY ID: 3846
NAME: DOWNIEVILLE FUEL STOP REXOCO #35
ADDRESS: 1039 CR 308 AND 1041-1041A CR 308
DOWNIEVILLE, CO 80436

TOTAL TANK: 11

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=3846

OWNER INFORMATION

NAME: P & T HOLDINGS DIVISION OF REX OIL
ADDRESS: 1970 E 68TH AVE
DENVER, CO 80229

TANK INFORMATION

TANK ID:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:	INSTALLATION DATE:
3846-1	UST	4 - DIESEL	10000	OPEN	01-DEC-92
3846-2	UST	4 - DIESEL	10000	OPEN	01-DEC-92
3846-3	UST	4 - DIESEL	10000	OPEN	01-DEC-92
3846-4	UST	1 - UNLEADED REGULAR (RUL)	10000	OPEN	01-DEC-92
3846-5	UST	1 - UNLEADED REGULAR (RUL)	10000	OPEN	01-DEC-92
3846-6	UST	2 - UNLEADED MID- GRADE (MUL)	10000	OPEN	01-DEC-92
3846-7	UST	3 - UNLEADED PREMIUM (PUL)	10000	OPEN	01-DEC-92
3846-8	UST	GASOLINE	10000	CLOSED	01-DEC-92
3846-9	UST	4 - DIESEL	10000	CLOSED	01-DEC-92
3846-10	UST	GASOLINE	10000	CLOSED	01-DEC-92
3846-11	UST	GASOLINE	10000	CLOSED	01-DEC-92

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Leaking Storage Tank Facilities (LST)

MAP ID# 13

Distance from Property: 0.05 mi. NW

FACILITY INFORMATION

FACILITY ID: 3846

NAME: DOWNIEVILLE FUEL STOP REXOCO #35

ADDRESS: 1039 CR 308 AND 1041-1041A CR 308
DOWNIEVILLE, CO 80436

LEAKING INFORMATION

EVENT ID: STATUS: RELEASE DATE:

8974 **CLOSED** **6/24/2002 8:57**

COSTIS LINK: http://costis.cdle.state.co.us/event.asp?h_id=8974

11215 **OPEN** **8/3/2010 8:59**

COSTIS LINK: http://costis.cdle.state.co.us/event.asp?h_id=11215

11707 **CLOSED** **8/22/2012 13:35**

COSTIS LINK: http://costis.cdle.state.co.us/event.asp?h_id=11707

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Emergency Response Notification System (ERNSCO)

MAP ID# 14

Distance from Property: 0.05 mi. N

INCIDENT INFORMATION

GSID#: 1314279718

NRC ID#: 836393

INCIDENT LOCATION: CENTER STREET AT FIFTH AVENUE

INCIDENT ADDRESS: CENTER STREET AT FIFTH AVENUE

INCIDENT CITY: IDAHO SPRINGS

INCIDENT STATE: CO

INCIDENT ZIP: NOT REPORTED

INCIDENT COUNTY: CLEAR CREEK

RESPONSIBLE PARTY

COMPANY: NOT REPORTED

ADDRESS: NOT REPORTED

CITY: NOT REPORTED

STATE: XX

ZIP: NOT REPORTED

INCIDENT DETAILS

INCIDENT DATE: 5/22/2007 13:00

INCIDENT CAUSE: EQUIPMENT FAILURE

MATERIAL REACHED WATER: YES

REMEDIAL ACTION: LOCAL COUNTY WILL HANDLE THE CLEAN UP, CLEAN UP IS UNDERWAY

INCIDENT DESCRIPTION: {NO_MEMO_FILE_OPEN}

MATERIAL RELEASED/AMOUNT: RAW SEWAGE/ UNKNOWN AMOUNT

OTHER MATERIAL RELEASED/AMOUNT: NOT REPORTED/NOT REPORTED NOT REPORTED

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Leaking Storage Tank Facilities (LST)

[MAP ID# 15](#)

Distance from Property: 0.06 mi. NW

FACILITY INFORMATION

FACILITY ID: 2923

NAME: CDOT IDAHO SPRINGS CSP

ADDRESS: 3000 COLORADO BLVD
IDAHO SPRINGS, CO 80452

LEAKING INFORMATION

EVENT ID: STATUS: RELEASE DATE:

4126 CLOSED 12/24/1992

COSTIS LINK: http://costis.cdle.state.co.us/event.asp?h_id=4126

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Underground Storage Tank Facilities (UST)

MAP ID# 15

Distance from Property: 0.06 mi. NW

FACILITY INFORMATION

FACILITY ID: 2923

NAME: CSP - IDAHO SPRINGS #49612

ADDRESS: 3000 COLORADO BLVD
IDAHO SPRINGS, CO 80452

TOTAL TANK: 1

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=2923

TANK INFORMATION

TANK ID:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:	INSTALLATION DATE:
2923-1	UST	GASOLINE	10000	CLOSED	01-JUL-73

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Aboveground Storage Tank Facilities (AST)

MAP ID# 15

Distance from Property: 0.06 mi. NW

FACILITY INFORMATION

FACILITY ID: 12340

NAME: CDOT IDAHO SPRINGS CSP

ADDRESS: 3000 COLORADO BLVD
IDAHO SPRINGS, CO 80452

TOTAL TANK: 1

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=12340

TANK INFORMATION

TANK ID: TANK TYPE:

NR NOT REPORTED

TANK PRODUCT:

NOT REPORTED

TANK CAPACITY: TANK STATUS:

NOT REPORTED NOT REPORTED

INSTALLATION DATE:

NOT REPORTED

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Underground Storage Tank Facilities (UST)

MAP ID# 16

Distance from Property: 0.06 mi. N

FACILITY INFORMATION

FACILITY ID: 15563
NAME: SILVER CITY AUTOMOTIVE
ADDRESS: 243 COLORADO BLVD
IDAHO SPRINGS, CO 80452

TOTAL TANK: 5

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=15563

TANK INFORMATION

TANK ID:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:	INSTALLATION DATE:
15563-1	UST	Z UNKNOWN	2000	CLOSED	NOT REPORTED
15563-2	UST	Z UNKNOWN	1000	CLOSED	NOT REPORTED
15563-3	UST	7 - LUBE OIL	1000	CLOSED	NOT REPORTED
15563-4	UST	Z UNKNOWN	1000	CLOSED	NOT REPORTED
15563-5	UST	KEROSENE	1000	CLOSED	NOT REPORTED

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Leaking Storage Tank Facilities (LST)

MAP ID# 16

Distance from Property: 0.06 mi. N

FACILITY INFORMATION

FACILITY ID: 15563

NAME: SILVER CITY AUTOMOTIVE

ADDRESS: 243 COLORADO BLVD
IDAHO SPRINGS, CO 80452

LEAKING INFORMATION

EVENT ID: STATUS: RELEASE DATE:

8761 CLOSED 10/15/2001

COSTIS LINK: http://costis.cdle.state.co.us/event.asp?h_id=8761

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Spills Listing (SPILLS)

MAP ID# 17

Distance from Property: 0.06 mi. NW

INCIDENT INFORMATION

CASE NUMBER: 2011-0453

NRC NUMBER: 0

SPILL DATE: 7/10/2011

SPILL LOCATION: 1711 MINER ST, AT THE WASTEWATER TREATMENT PLANT

SPILL CITY/STATE/ZIP: IDAHO SPRINGS, CO 80452

SPILL COUNTY: CLEAR CREEK

RESPONSIBLE PARTY

NAME: IDAHO SPRINGS WASTEWATER TREATMENT PLANT

ADDRESS: 1711 MINER ST.

IDAHO SPRINGS, CO 80452

COUNTY: CLEAR CREEK

CONTACT: JOHN CURTIS

PHONE: 720-341-0305

INCIDENT DETAILS

SOURCE: SANITARY SEWER

SOURCE TYPE: SANITARY SEWER/LIFT STATION

MEDIUM: WATER

WATERWAY: CLEAR CREEK

CAUSE: FAILURE EQUIPMENT

MATERIAL TYPE: SANITARY SEWER OVERFLOW

MATERIAL DESCRIPTION:

TREATED, NOT DISINFECTED
WASTEWATER

MATERIAL QUANTITY:

200000 G

WATER QUANTITY:

200000 G

CAUSE INFORMATION:

BROKEN BRICKS AND ONE OF THE ARMS POPPING OPEN CAUSED A RELEASE OF 200,000 GALLONS OF TREATED, BUT NOT DISINFECTED, WASTEWATER TO CLEAR CREEK. THE HIGH LEVELS HAD BEEN RECORDED AT 1547 ON 7/9/11, BUT THE ALARM DID NOT GO OFF. THE RELEASE WAS DISCOVERED

ACTION:

REPAIRS WERE COMPLETED ENOUGH TO STOP THE RELEASE BY 10 A.M.

RESPONSE COMMENTS:

THE ROC RESIGNED. JOHN CURTIS IS ON THE TOWN BOARD, SO HE REPORTED THE RELEASE. RAMEY ENVIRONMENTAL HAS JUST BEEN HIRED TO RUN THE PLANT UNTIL A PERMANENT PERSON IS FOUND. JOHN CURTIS' EMAIL IS GTOWNUTILITIES@EARTHLINK.NET. HE AND WAYNE RAMEY WILL MAK

COMMENTS:

NOT REPORTED

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Spills Listing (SPILLS)

MAP ID# 18

Distance from Property: 0.06 mi. NW

INCIDENT INFORMATION

CASE NUMBER: **2007-0763** NRC NUMBER: **0**

SPILL DATE: **9/11/2007**

SPILL LOCATION: **2000 MINER ST.**

SPILL CITY/STATE/ZIP: **IDAHO SPRINGS, CO**

SPILL COUNTY: **CLEAR CREEK**

RESPONSIBLE PARTY

NAME: **CITY OF IDAHO SPRINGS**

ADDRESS: **200 COLORADO BLVD.**

IDAHO SPRINGS, CO 80452

COUNTY: **NOT REPORTED**

CONTACT: **CAROL MIKAL**

PHONE: **303-567-2400**

INCIDENT DETAILS

SOURCE: **PIPELINE**

SOURCE TYPE: **WATER LINE**

MEDIUM: **WATER**

WATERWAY: **CLEAR CREEK**

CAUSE: **FAILURE EQUIPMENT**

MATERIAL TYPE: **POTABLE WATER**

MATERIAL DESCRIPTION:

POTABLE WATER

MATERIAL QUANTITY:

18000 G

WATER QUANTITY:

18000 G

CAUSE INFORMATION:

A WATER MAIN BREAK AT THE ABOVE LISTED LOCATION IS THE RESULT OF POTABLE WATER BEING RELEASED.INTO CLEAR CREEK.

ACTION:

WATER MAIN IS BEING REPAIRED. ESTIMATED THAT LINE WILL BE REPAIRED BY 7PM THIS EVENING.

RESPONSE COMMENTS:

ABOUT 150 GALLONS PER MINUTE BEING RELEASED. RELEASE HAS BEEN GOING ON FOR APPROXIMATELY 2 HOURS.

COMMENTS:

NOT REPORTED

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GeoSearch

www.geo-search.com 888-396-0042

Underground Storage Tank Facilities (UST)

MAP ID# 19

Distance from Property: 0.06 mi. N

FACILITY INFORMATION

FACILITY ID: 8666

NAME: CLEAR CREEK SCHOOL TRANSPORTATION DIVISION

ADDRESS: 1125 IDAHO ST

IDAHO SPRINGS, CO 80452

TOTAL TANK: 1

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=8666

TANK INFORMATION

TANK ID:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:	INSTALLATION DATE:
8666-1	UST	4 - DIESEL	10000	OPEN	27-MAR-70

OWNER INFORMATION

NAME: CLEAR CREEK SCHOOL DIST RE-1

ADDRESS: PO BOX 3399

IDAHO SPRINGS, CO 80452

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**Resource Conservation & Recovery Act - Non-Generator Facilities
(RCRANGR08)**

MAP ID# 20

Distance from Property: 0.06 mi. NW

FACILITY INFORMATION

EPA ID#: **COR000005892**

NAME: **BUFFALO TRAILS GIFT SHOP**

ADDRESS: **1535 MINER ST**

IDAHO SPRINGS, CO 80452

CONTACT NAME: **NOT REPORTED**

CONTACT ADDRESS: **NOT REPORTED**

CONTACT PHONE: **NOT REPORTED**

NON-NOTIFIER: **X**

DATE RECEIVED BY AGENCY: **08/08/1996**

CERTIFICATION - **NO CERTIFICATION REPORTED -**

INDUSTRY CLASSIFICATION (NAICS) - **NO NAICS INFORMATION REPORTED -**

SITE HISTORY (INCLUDES GENERATORS AND NON-GENERATORS)

DATE RECEIVED BY AGENCY: **08/08/96**

NAME: **BUFFALO TRAILS GIFT SHOP**

GENERATOR CLASSIFICATION: **NOT A GENERATOR**

OWNER TYPE: **NOT REPORTED**

OWNER NAME: **NOT REPORTED**

OPERATOR TYPE: **NOT REPORTED**

OPERATOR NAME: **NOT REPORTED**

ACTIVITY INFORMATION

GENERATOR STATUS: **NOT A GENERATOR**

SUBJECT TO CORRECTIVE ACTION UNIVERSE: **NO**

TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: **NO**

TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: **NO**

NON TDSFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: **NO**

CORRECTIVE ACTION WORKLOAD UNIVERSE: **NO**

IMPORTER: **NO**

UNDERGROUND INJECTION: **NO**

MIXED WASTE GENERATOR: **NO**

UNIVERSAL WASTE DESTINATION FACILITY: **NO**

RECYCLER: **NO**

TRANSFER FACILITY: **NO**

TRANSPORTER: **NO**

USED OIL FUEL BURNER: **NO**

ONSITE BURNER EXEMPTION: **NO**

USED OIL PROCESSOR: **NO**

FURNACE EXEMPTION: **NO**

USED OIL FUEL MARKETER TO BURNER: **NO**

USED OIL REFINER: **NO**

SPECIFICATION USED OIL MARKETER: **NO**

USED OIL TRANSFER FACILITY: **NO**

USED OIL TRANSPORTER: **NO**

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS

1996/08/08 CEI COMPLIANCE EVALUATION INSPECTION ON-SITE

VIOLATIONS - **NO VIOLATIONS REPORTED -**

ENFORCEMENTS - **NO ENFORCEMENTS REPORTED -**

HAZARDOUS WASTE

- NO HAZARDOUS WASTE INFORMATION REPORTED -

UNIVERSAL WASTE - **NO UNIVERSAL WASTE REPORTED -**

CORRECTIVE ACTION AREA - **NO CORECTIVE ACTION AREA INFORMATION REPORTED -**

**Resource Conservation & Recovery Act - Non-Generator Facilities
(RCRANGR08)**

CORRECTIVE ACTION EVENT - NO CORECTIVE ACTION EVENT REPORTED -

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Leaking Storage Tank Facilities (LST)

[MAP ID# 21](#)

Distance from Property: 0.07 mi. NW

FACILITY INFORMATION

FACILITY ID: 18798

NAME: KUM & GO #975

ADDRESS: 1359 MINER ST

IDAHO SPRINGS, CO 80452

LEAKING INFORMATION

EVENT ID: STATUS: RELEASE DATE:

10897 CLOSED 8/7/2009 12:01

COSTIS LINK: http://costis.cdle.state.co.us/event.asp?h_id=10897

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Underground Storage Tank Facilities (UST)

MAP ID# 21

Distance from Property: 0.07 mi. NW

FACILITY INFORMATION

FACILITY ID: 6517

NAME: AMOCO #5329

ADDRESS: 1319 MINER ST

IDAHO SPRINGS, CO 80452

TOTAL TANK: 4

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=6517

TANK INFORMATION

TANK ID:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:	INSTALLATION DATE:
6517-1	UST	6 - USED OIL (WASTE OIL)	550	CLOSED	17-APR-85
6517-2	UST	GASOLINE	8000	CLOSED	17-APR-85
6517-3	UST	GASOLINE	10000	CLOSED	17-APR-85
6517-4	UST	GASOLINE	10000	CLOSED	17-APR-85

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Underground Storage Tank Facilities (UST)

MAP ID# 21

Distance from Property: 0.07 mi. NW

FACILITY INFORMATION

FACILITY ID: 18798

NAME: KUM & GO #975

ADDRESS: 1359 MINER ST

IDAHO SPRINGS, CO 80452

TOTAL TANK: 3

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=18798

TANK INFORMATION

TANK ID:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:	INSTALLATION DATE:
18798-1	UST	9 - GAS/GAS (MULTI-COMP)	20000	OPEN	17-SEP-09
18798-2	UST	8 - DIESEL/GAS (MULTI-COMP)	20000	OPEN	17-SEP-09
18798-3	UST	1 - UNLEADED REGULAR (RUL)	8000	OPEN	17-SEP-09

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Emergency Response Notification System (ERNSCO)

MAP ID# 21

Distance from Property: 0.07 mi. NW

INCIDENT INFORMATION

GSID#: 3484211329

NRC ID#: 1000591

INCIDENT LOCATION: COME AND GO STORE

INCIDENT ADDRESS: 1319 MINER STREET

INCIDENT CITY: IDAHO SPRINGS

INCIDENT STATE: CO

INCIDENT ZIP: NOT REPORTED

INCIDENT COUNTY: GILPIN

RESPONSIBLE PARTY

COMPANY: SOLAR TRANSPORT

ADDRESS: NOT REPORTED

CITY: WEST DES MOINES

STATE: IA

ZIP: NOT REPORTED

INCIDENT DETAILS

INCIDENT DATE: 1/17/2012 12:50

INCIDENT CAUSE: EQUIPMENT FAILURE

MATERIAL REACHED WATER: NO

REMEDIAL ACTION: CALLER STATED THE SPILL WAS CLEANED UP WITH ABSORBENT PADS.

INCIDENT DESCRIPTION: {NO_MEMO_FILE_OPEN}

MATERIAL RELEASED/AMOUNT: GASOLINE: AUTOMOTIVE (UNLEADED)/5 GALLON(S)

OTHER MATERIAL RELEASED/AMOUNT: NOT REPORTED/NOT REPORTED NOT REPORTED

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Hazardous Materials Incident Reporting System (HMIRSR08)

MAP ID# 21

Distance from Property: 0.07 mi. NW

INCIDENT INFORMATION

REPORT #: I-2012020050

DATE: 01/17/2012

INCIDENT LOCATION:

1319 MINER STREET

IDAHO SPRINGS, CO 80452

CLEAR CREEK COUNTY

CARRIER INFORMATION

NAME: SOLAR TRANSPORT COMPANY

ADDRESS: 6400 WESTOWN PKWY

WEST DES MOINES, IA 50266

MODE OF TRANSPORTATION: HIGHWAY

TRANSPORTATION PHASE: UNLOADING

COMMODITY DETAILS

IDENTIFICATION NUMBER: UN1203

COMMODITY SHIPPING NAME: GASOLINE

TRADE NAME: BR CONVENTIONAL GASOLINE WITH ETHER

QUANTITY RELEASED: 5 LIQUID - GALLON

PACKAGING: CARGO TANK MOTOR VEHICLE (CTMV)

FAILURE DESCRIPTION

WHAT FAILED: 125 HOSE

HOW FAILED: 308 - LEAKED

FAILURE CAUSE DESCRIPTION:

515 - HUMAN ERROR

DESCRIPTION OF EVENTS:

DRIVER FAILED TO CONNECT HOSE PROPERLY TO DROP ELBOW. HOSE CAME LOOSE DURING DELIVERY. DRIVER STOPPED FLOW & CONTAINED PRODUCT & CLEANED UP.

RECOMMENDATIONS/ACTIONS TAKEN:

DRIVER WILL BE TRAINED TO ENSURE HE CAN DELIVERY PRODUCT WITH OUT SPILLING A DROP.

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**Resource Conservation & Recovery Act - Non-Generator Facilities
(RCRANGR08)**

MAP ID# 21

Distance from Property: 0.07 mi. NW

FACILITY INFORMATION

EPA ID#: COD983788126

NAME: AMOCO OIL 5329

ADDRESS: 1319 MINER ST

IDAHO SPRINGS, CO 804520480

CONTACT NAME: JAMES ROGERS

CONTACT ADDRESS: PO BOX 26045

SHAWNEE MISSION, KS 662256045

CONTACT PHONE: 9133394530

NON-NOTIFIER: NOT A NON-NOTIFIER

DATE RECEIVED BY AGENCY: 02/15/1995

CERTIFICATION - NO CERTIFICATION REPORTED -

INDUSTRY CLASSIFICATION (NAICS) - NO NAICS INFORMATION REPORTED -

SITE HISTORY (INCLUDES GENERATORS AND NON-GENERATORS)

DATE RECEIVED BY AGENCY: 02/15/95

NAME: AMOCO OIL 5329

GENERATOR CLASSIFICATION: NOT A GENERATOR

ACTIVITY INFORMATION

GENERATOR STATUS: NOT A GENERATOR

SUBJECT TO CORRECTIVE ACTION UNIVERSE: NO

TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: NO

TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: NO

NON TDSFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: NO

CORRECTIVE ACTION WORKLOAD UNIVERSE: NO

IMPORTER: NO

UNDERGROUND INJECTION: NO

MIXED WASTE GENERATOR: NO

UNIVERSAL WASTE DESTINATION FACILITY: NO

RECYCLER: NO

TRANSFER FACILITY: NO

TRANSPORTER: NO

USED OIL FUEL BURNER: NO

ONSITE BURNER EXEMPTION: NO

USED OIL PROCESSOR: NO

FURNACE EXEMPTION: NO

USED OIL FUEL MARKETER TO BURNER: NO

USED OIL REFINER: NO

SPECIFICATION USED OIL MARKETER: NO

USED OIL TRANSFER FACILITY: NO

USED OIL TRANSPORTER: NO

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS - NO EVALUATIONS REPORTED -

VIOLATIONS - NO VIOLATIONS REPORTED -

ENFORCEMENTS - NO ENFORCEMENTS REPORTED -

HAZARDOUS WASTE

D000

D001 IGNITABLE WASTE

D018 BENZENE

UNIVERSAL WASTE - NO UNIVERSAL WASTE REPORTED -

CORRECTIVE ACTION AREA - NO CORECTIVE ACTION AREA INFORMATION REPORTED -

GeoSearch www.geo-search.com 888-396-0042

**Resource Conservation & Recovery Act - Non-Generator Facilities
(RCRANGR08)**

CORRECTIVE ACTION EVENT - NO CORECTIVE ACTION EVENT REPORTED -

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Leaking Storage Tank Facilities (LST)

[MAP ID# 21](#)

Distance from Property: 0.07 mi. NW

FACILITY INFORMATION

FACILITY ID: 6517

NAME: AMOCO OIL #5329

ADDRESS: 1319 MINER ST

IDAHO SPRINGS, CO 80452

LEAKING INFORMATION

EVENT ID: STATUS: RELEASE DATE:

1944 CLOSED 4/1/1991

COSTIS LINK: http://costis.cdle.state.co.us/event.asp?h_id=1944

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Underground Storage Tank Facilities (UST)

[MAP ID# 22](#)

Distance from Property: 0.07 mi. N

FACILITY INFORMATION

FACILITY ID: 2423

NAME: MINER STREET SHELL

ADDRESS: 115 13TH AVE

IDAHO SPRINGS, CO 80452

TOTAL TANK: 3

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=2423

TANK INFORMATION

TANK ID:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:	INSTALLATION DATE:
2423-1	UST	1 - UNLEADED REGULAR (RUL)	10000	OPEN	NOT REPORTED
2423-2	UST	4 - DIESEL	6000	OPEN	NOT REPORTED
2423-3	UST	3 - UNLEADED PREMIUM (PUL)	6000	OPEN	NOT REPORTED

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No Longer Regulated RCRA Generator Facilities (NLRRCRAG)

MAP ID# 22

Distance from Property: 0.08 mi. N

FACILITY INFORMATION

EPA ID#: COD983800285

NAME: WARDROBE CLEANERS

ADDRESS: 1241 MINER ST

IDAHO SPRINGS, CO 80452

CONTACT NAME: CAROLYN KENNEDY

CONTACT ADDRESS: P.O. BOX 785

IDAHO SPRINGS, CO 80452

CONTACT PHONE: 3035672555

NON-NOTIFIER: NOT A NON-NOTIFIER

DATE RECEIVED BY AGENCY: 08/05/2008

OWNER TYPE: PRIVATE

OWNER NAME: CAROLYN KENNEDY

OPERATOR TYPE: PRIVATE

OPERATOR NAME: WARDROBE CLEANERS

CERTIFICATION

CERTIFICATION NAME:

CERTIFICATION TITLE:

CERTIFICATION SIGNED DATE:

CAROLYN KENNEDY

OWNER

20070102

CAROLYN KENNEDY

OWNER

20080725

CAROLYN KENNEDY

PRESIDENT

20080725

INDUSTRY CLASSIFICATION (NAICS)

81232 - DRYCLEANING AND LAUNDRY SERVICES (EXCEPT COIN-OPE

SITE HISTORY (INCLUDES GENERATORS AND NON-GENERATORS)

DATE RECEIVED BY AGENCY: 08/05/08

NAME: WARDROBE CLEANERS INC

GENERATOR CLASSIFICATION: NOT A GENERATOR

DATE RECEIVED BY AGENCY: 01/10/07

NAME: WARDROBE CLEANERS

GENERATOR CLASSIFICATION: LARGE QUANTITY GENERATOR

DATE RECEIVED BY AGENCY: 03/01/93

NAME: WARDROBE CLEANERS

GENERATOR CLASSIFICATION: LARGE QUANTITY GENERATOR

ACTIVITY INFORMATION

GENERATOR STATUS: **CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR**

SUBJECT TO CORRECTIVE ACTION UNIVERSE: **NO**

TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: **NO**

TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: **NO**

NON TDSFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: **NO**

CORRECTIVE ACTION WORKLOAD UNIVERSE: **NO**

IMPORTER: **NO**

UNDERGROUND INJECTION: **NO**

MIXED WASTE GENERATOR: **NO**

UNIVERSAL WASTE DESTINATION FACILITY: **NO**

RECYCLER: **NO**

TRANSFER FACILITY: **NO**

TRANSPORTER: **NO**

USED OIL FUEL BURNER: **NO**

ONSITE BURNER EXEMPTION: **NO**

USED OIL PROCESSOR: **NO**

FURNACE EXEMPTION: **NO**

USED OIL FUEL MARKETER TO BURNER: **NO**

USED OIL REFINER: **NO**

SPECIFICATION USED OIL MARKETER: **NO**

USED OIL TRANSFER FACILITY: **NO**

USED OIL TRANSPORTER: **NO**

GeoSearch

www.geo-search.com 888-396-0042

No Longer Regulated RCRA Generator Facilities (NLRRCRAG)

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS - NO EVALUATIONS REPORTED -

VIOLATIONS - NO VIOLATIONS REPORTED -

ENFORCEMENTS - NO ENFORCEMENTS REPORTED -

HAZARDOUS WASTE

F002 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 SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

UNIVERSAL WASTE - NO UNIVERSAL WASTE REPORTED -

CORRECTIVE ACTION AREA - NO CORRECTIVE ACTION AREA INFORMATION REPORTED -

CORRECTIVE ACTION EVENT - NO CORRECTIVE ACTION EVENT REPORTED -

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**Resource Conservation & Recovery Act - Non-Generator Facilities
(RCRANGR08)**

MAP ID# 22

Distance from Property: 0.08 mi. N

FACILITY INFORMATION

EPA ID#: **COD983800285**

NAME: **WARDROBE CLEANERS INC**

ADDRESS: **1241 MINER ST**

IDAHO SPRINGS, CO 80452

CONTACT NAME: **CAROLYN KENNEDY**

CONTACT ADDRESS: **P.O. BOX 785**

IDAHO SPRINGS, CO 80452

CONTACT PHONE: **3035672555**

NON-NOTIFIER: **NOT A NON-NOTIFIER**

DATE RECEIVED BY AGENCY: **08/05/2008**

OWNER TYPE: **PRIVATE**

OWNER NAME: **CAROLYN KENNEDY**

OPERATOR TYPE: **PRIVATE**

OPERATOR NAME: **WARDROBE CLEANERS**

CERTIFICATION

CERTIFICATION NAME:

CERTIFICATION TITLE:

CERTIFICATION SIGNED DATE:

CAROLYN KENNEDY

OWNER

20070102

CAROLYN KENNEDY

OWNER

20080725

CAROLYN KENNEDY

PRESIDENT

20080725

INDUSTRY CLASSIFICATION (NAICS)

81232 - DRYCLEANING AND LAUNDRY SERVICES (EXCEPT COIN-OPE

SITE HISTORY (INCLUDES GENERATORS AND NON-GENERATORS)

DATE RECEIVED BY AGENCY: **08/05/08**

NAME: **WARDROBE CLEANERS INC**

GENERATOR CLASSIFICATION: **NOT A GENERATOR**

DATE RECEIVED BY AGENCY: **01/10/07**

NAME: **WARDROBE CLEANERS**

GENERATOR CLASSIFICATION: **LARGE QUANTITY GENERATOR**

DATE RECEIVED BY AGENCY: **03/01/93**

NAME: **WARDROBE CLEANERS**

GENERATOR CLASSIFICATION: **LARGE QUANTITY GENERATOR**

ACTIVITY INFORMATION

GENERATOR STATUS: **NOT A GENERATOR**

SUBJECT TO CORRECTIVE ACTION UNIVERSE: **NO**

TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: **NO**

TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: **NO**

NON TDSFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: **NO**

CORRECTIVE ACTION WORKLOAD UNIVERSE: **NO**

IMPORTER: **NO**

UNDERGROUND INJECTION: **NO**

MIXED WASTE GENERATOR: **NO**

UNIVERSAL WASTE DESTINATION FACILITY: **NO**

RECYCLER: **NO**

TRANSFER FACILITY: **NO**

TRANSPORTER: **NO**

USED OIL FUEL BURNER: **NO**

ONSITE BURNER EXEMPTION: **NO**

USED OIL PROCESSOR: **NO**

FURNACE EXEMPTION: **NO**

USED OIL FUEL MARKETER TO BURNER: **NO**

USED OIL REFINER: **NO**

SPECIFICATION USED OIL MARKETER: **NO**

**Resource Conservation & Recovery Act - Non-Generator Facilities
(RCRANGR08)**

USED OIL TRANSFER FACILITY: **NO**

USED OIL TRANSPORTER: **NO**

— COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION —

EVALUATIONS - **NO EVALUATIONS REPORTED -**

VIOLATIONS - **NO VIOLATIONS REPORTED -**

ENFORCEMENTS - **NO ENFORCEMENTS REPORTED -**

— HAZARDOUS WASTE —

F002 THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFUOROMETHANE, 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 SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

UNIVERSAL WASTE - **NO UNIVERSAL WASTE REPORTED -**

CORRECTIVE ACTION AREA - **NO CORECTIVE ACTION AREA INFORMATION REPORTED -**

CORRECTIVE ACTION EVENT - **NO CORECTIVE ACTION EVENT REPORTED -**

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Leaking Storage Tank Facilities (LST)

[MAP ID# 22](#)

Distance from Property: 0.07 mi. N

FACILITY INFORMATION

FACILITY ID: 2423

NAME: MINER STREET BUSINESS CORP

ADDRESS: 115 13TH AVE

IDAHO SPRINGS, CO 80452

LEAKING INFORMATION

EVENT ID: STATUS: RELEASE DATE:

10237 **CLOSED** **10/30/2006 13:09**

COSTIS LINK: http://costis.cdle.state.co.us/event.asp?h_id=10237

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Spills Listing (SPILLS)

MAP ID# 23

Distance from Property: 0.08 mi. N

INCIDENT INFORMATION

CASE NUMBER: **2007-0517** NRC NUMBER: **0**

SPILL DATE: **5/22/2007**

SPILL LOCATION: **CENTER ST & 5TH AVE**

SPILL CITY/STATE/ZIP: **IDAHO SPRINGS, CO**

SPILL COUNTY: **CLEAR CREEK**

RESPONSIBLE PARTY

NAME: **UNKNOWN**

ADDRESS: **STREET NOT REPORTED**

CITY NOT REPORTED, CO

COUNTY: **NOT REPORTED**

CONTACT: **NOT REPORTED**

PHONE: **NOT REPORTED**

INCIDENT DETAILS

SOURCE: **HIGHWAY/ROADWAY**

SOURCE TYPE: **DESCRIBE SOURCE**

MEDIUM: **WATER AND LAND**

WATERWAY: **DRAINAGE DITCH**

CAUSE: **FAILURE EQUIPMENT**

MATERIAL TYPE: **UNKNOWN**

MATERIAL DESCRIPTION:

UNKNOWN

MATERIAL QUANTITY:

30 G

WATER QUANTITY:

NOT REPORTED

CAUSE INFORMATION:

RED LIQUID COMING OUT OF MANHOLE TO DRAINAGE DITCH - NO RELEASE TO CLEAR CREEK. NEG FOR ALL HAZMAT.

IDAHO SPRINGS WASTEWATER

ACTION:

CSP-HAZCATTED & LEFT ON SITE - COUNTY WILL VAC UP AND EXCAVATE.

RESPONSE COMMENTS:

POSSIBLY AN IRON ORE OXIDE.

COMMENTS:

NOT REPORTED

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Underground Storage Tank Facilities (UST)

MAP ID# 23

Distance from Property: 0.07 mi. NW

FACILITY INFORMATION

FACILITY ID: 18152
NAME: ORPHAN TANK AT MINER STREET
ADDRESS: 1840 MINER ST
IDAHO SPRINGS, CO 80452

TOTAL TANK: 1

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=18152

TANK INFORMATION

TANK ID:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:	INSTALLATION DATE:
18152-1	UST	NOT REPORTED	500	CLOSED	NOT REPORTED

OWNER INFORMATION

NAME: PROPERTY ON MINER STREET
ADDRESS: 1840 MINER ST
IDAHO SPRINGS, CO 80452

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Leaking Storage Tank Facilities (LST)

[MAP ID# 23](#)

Distance from Property: 0.07 mi. NW

FACILITY INFORMATION

FACILITY ID: 18152

NAME: ORPHAN TANK AT MINER STREET

ADDRESS: 1840 MINER ST

IDAHO SPRINGS, CO 80452

LEAKING INFORMATION

EVENT ID: STATUS: RELEASE DATE:

10217 CLOSED 10/6/2006 9:46

COSTIS LINK: http://costis.cdle.state.co.us/event.asp?h_id=10217

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Spills Listing (SPILLS)

MAP ID# 24

Distance from Property: 0.09 mi. N

INCIDENT INFORMATION

CASE NUMBER: 2006-1017 NRC NUMBER: 0

SPILL DATE: 10/27/2006

SPILL LOCATION: 1300 MINOR STREET

SPILL CITY/STATE/ZIP: IDAHO SPRINGS, CO

SPILL COUNTY: CLEAR CREEK

RESPONSIBLE PARTY

NAME: SHELL GAS STATION

ADDRESS: 1300 MINER STREET

IDAHO SPRINGS, CO

COUNTY: CLEAR CREEK

CONTACT: NOT REPORTED

PHONE: NOT REPORTED

INCIDENT DETAILS

SOURCE: UNDERGROUND STORAGE TANK

SOURCE TYPE: GAS PUMP/GAS STATION

MEDIUM: WATER

WATERWAY: CLEAR CREEK

CAUSE: FAILURE EQUIPMENT

MATERIAL TYPE: OIL

MATERIAL DESCRIPTION:

GASOLINE

MATERIAL QUANTITY:

40 G

WATER QUANTITY:

20 G

CAUSE INFORMATION:

NOT REPORTED

ACTION:

THE RELEASE WENT INTO THE STORM DRAIN AND THE FIRE DEPARTMENT WAS ABLE TO PREVENT ABOUT HAVE OF THE RELEASE FROM GOING INTO THE STORM DRAIN. DOWNSTREAM USERS HAVE BEEN NOTIFIED.

RESPONSE COMMENTS:

NOT REPORTED

COMMENTS:

FIRE CHIEF KELLY BABEON MAY BE CONTACTED FOR MORE INFORMATION WHEN HE IS BACK IN HIS OFFICE. HIS OF

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Underground Storage Tank Facilities (UST)

MAP ID# 25

Distance from Property: 0.07 mi. NW

FACILITY INFORMATION

FACILITY ID: 2287
NAME: IDAHO SPRINGS SUNMART #501
ADDRESS: 2833 COLORADO BLVD
IDAHO SPRINGS, CO 80452

TOTAL TANK: 3

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=2287

TANK INFORMATION

TANK ID:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:	INSTALLATION DATE:
2287-1	UST	GASOLINE	6000	CLOSED	29-APR-69
2287-2	UST	GASOLINE	6000	CLOSED	29-APR-69
2287-3	UST	GASOLINE	6000	CLOSED	29-APR-69

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**Resource Conservation & Recovery Act - Non-Generator Facilities
(RCRANGR08)**

MAP ID# 26

Distance from Property: 0.07 mi. SW

FACILITY INFORMATION

EPA ID#: **COR000204701**

NAME: **CLEAR CREEK CNTY SPORTSMEN CLUB**

ADDRESS: **3201 CNTY RD
DUMONT, CO 80436**

CONTACT NAME: **RAY EAVES**

CONTACT ADDRESS: **3201 CNTY RD
DUMONT, CO 80436**

CONTACT PHONE: **9999999999**

NON-NOTIFIER: **X**

DATE RECEIVED BY AGENCY: **11/07/2002**

CERTIFICATION

CERTIFICATION NAME:

RAY EAVES

CERTIFICATION TITLE:

PRESIDENT

CERTIFICATION SIGNED DATE:

20021107

INDUSTRY CLASSIFICATION (NAICS) - **NO NAICS INFORMATION REPORTED -**

SITE HISTORY (INCLUDES GENERATORS AND NON-GENERATORS)

DATE RECEIVED BY AGENCY: **11/07/02**

NAME: **CLEAR CREEK CNTY SPORTSMEN CLUB**

GENERATOR CLASSIFICATION: **NOT A GENERATOR**

ACTIVITY INFORMATION

GENERATOR STATUS: **NOT A GENERATOR**

SUBJECT TO CORRECTIVE ACTION UNIVERSE: **NO**

TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: **NO**

TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: **NO**

NON TDSFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: **NO**

CORRECTIVE ACTION WORKLOAD UNIVERSE: **NO**

IMPORTER: **NO**

UNDERGROUND INJECTION: **NO**

MIXED WASTE GENERATOR: **NO**

UNIVERSAL WASTE DESTINATION FACILITY: **NO**

RECYCLER: **NO**

TRANSFER FACILITY: **NO**

TRANSPORTER: **NO**

USED OIL FUEL BURNER: **NO**

ONSITE BURNER EXEMPTION: **NO**

USED OIL PROCESSOR: **NO**

FURNACE EXEMPTION: **NO**

USED OIL FUEL MARKETER TO BURNER: **NO**

USED OIL REFINER: **NO**

SPECIFICATION USED OIL MARKETER: **NO**

USED OIL TRANSFER FACILITY: **NO**

USED OIL TRANSPORTER: **NO**

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS - **NO EVALUATIONS REPORTED -**

VIOLATIONS - **NO VIOLATIONS REPORTED -**

ENFORCEMENTS - **NO ENFORCEMENTS REPORTED -**

HAZARDOUS WASTE

- **NO HAZARDOUS WASTE INFORMATION REPORTED -**

**Resource Conservation & Recovery Act - Non-Generator Facilities
(RCRANGR08)**

UNIVERSAL WASTE - NO UNIVERSAL WASTE REPORTED -

CORRECTIVE ACTION AREA - NO CORECTIVE ACTION AREA INFORMATION REPORTED -

CORRECTIVE ACTION EVENT - NO CORECTIVE ACTION EVENT REPORTED -

[Back to Report Summary](#)

Leaking Storage Tank Facilities (LST)

MAP ID# 27

Distance from Property: 0.08 mi. NW

FACILITY INFORMATION

FACILITY ID: 5418

NAME: BOLO LIMITED LIABILITY

ADDRESS: 2410 COLORADO BLVD
IDAHO SPRINGS, CO 80452

LEAKING INFORMATION

EVENT ID:	STATUS:	RELEASE DATE:
4496	CLOSED	6/13/1994
COSTIS LINK:	http://costis.cdle.state.co.us/event.asp?h_id=4496	
9722	CLOSED	1/27/2005 7:09
COSTIS LINK:	http://costis.cdle.state.co.us/event.asp?h_id=9722	
10369	CLOSED	6/5/2007 13:47
COSTIS LINK:	http://costis.cdle.state.co.us/event.asp?h_id=10369	
8420	CLOSED	1/8/2001
COSTIS LINK:	http://costis.cdle.state.co.us/event.asp?h_id=8420	
10913	LUST TRUST	8/26/2009 10:42
COSTIS LINK:	http://costis.cdle.state.co.us/event.asp?h_id=10913	
9361	CLOSED	10/3/2003 8:59
COSTIS LINK:	http://costis.cdle.state.co.us/event.asp?h_id=9361	

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Underground Storage Tank Facilities (UST)

MAP ID# 27

Distance from Property: 0.08 mi. NW

FACILITY INFORMATION

FACILITY ID: 5418
NAME: FORMER SERVICE STATION
ADDRESS: 2410 COLORADO BLVD
IDAHO SPRINGS, CO 80452

TOTAL TANK: 3

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=5418

TANK INFORMATION

TANK ID:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:	INSTALLATION DATE:
5418-1	UST	Z UNKNOWN	999999999	CLOSED	NOT REPORTED
5418-2	UST	Z UNKNOWN	999999999	CLOSED	NOT REPORTED
5418-3	UST	Z UNKNOWN	999999999	CLOSED	NOT REPORTED

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**Resource Conservation & Recovery Act - Non-Generator Facilities
(RCRANGR08)**

MAP ID# 27

Distance from Property: 0.08 mi. NW

FACILITY INFORMATION

EPA ID#: **COD983802745**

NAME: **EIGHT BALL TIRE & AUTO**

ADDRESS: **2410 COLORADO BLVD.**

IDAHO SPRINGS, CO 80452

CONTACT NAME: **NOT REPORTED**

CONTACT ADDRESS: **NOT REPORTED**

CONTACT PHONE: **NOT REPORTED**

NON-NOTIFIER: **X**

DATE RECEIVED BY AGENCY: **08/18/1993**

CERTIFICATION - **NO CERTIFICATION REPORTED -**

INDUSTRY CLASSIFICATION (NAICS) - **NO NAICS INFORMATION REPORTED -**

SITE HISTORY (INCLUDES GENERATORS AND NON-GENERATORS)

DATE RECEIVED BY AGENCY: **08/18/93**

NAME: **EIGHT BALL TIRE & AUTO**

GENERATOR CLASSIFICATION: **NOT A GENERATOR**

ACTIVITY INFORMATION

GENERATOR STATUS: **NOT A GENERATOR**

SUBJECT TO CORRECTIVE ACTION UNIVERSE: **NO**

TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: **NO**

TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: **NO**

NON TDSFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: **NO**

CORRECTIVE ACTION WORKLOAD UNIVERSE: **NO**

IMPORTER: **NO**

UNDERGROUND INJECTION: **NO**

MIXED WASTE GENERATOR: **NO**

UNIVERSAL WASTE DESTINATION FACILITY: **NO**

RECYCLER: **NO**

TRANSFER FACILITY: **NO**

TRANSPORTER: **NO**

USED OIL FUEL BURNER: **NO**

ONSITE BURNER EXEMPTION: **NO**

USED OIL PROCESSOR: **NO**

FURNACE EXEMPTION: **NO**

USED OIL FUEL MARKETER TO BURNER: **NO**

USED OIL REFINER: **NO**

SPECIFICATION USED OIL MARKETER: **NO**

USED OIL TRANSFER FACILITY: **NO**

USED OIL TRANSPORTER: **NO**

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS

1993/08/18 CEI COMPLIANCE EVALUATION INSPECTION ON-SITE

VIOLATIONS - **NO VIOLATIONS REPORTED -**

ENFORCEMENTS - **NO ENFORCEMENTS REPORTED -**

HAZARDOUS WASTE

- **NO HAZARDOUS WASTE INFORMATION REPORTED -**

UNIVERSAL WASTE - **NO UNIVERSAL WASTE REPORTED -**

CORRECTIVE ACTION AREA - **NO CORECTIVE ACTION AREA INFORMATION REPORTED -**

**Resource Conservation & Recovery Act - Non-Generator Facilities
(RCRANGR08)**

CORRECTIVE ACTION EVENT - NO CORECTIVE ACTION EVENT REPORTED -

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Aboveground Storage Tank Facilities (AST)

MAP ID# 27

Distance from Property: 0.08 mi. NW

FACILITY INFORMATION

FACILITY ID: 13123

NAME: BOLO LIMITED LIABILITY

ADDRESS: 2410 COLORADO BLVD
IDAHO SPRINGS, CO 80452

TOTAL TANK: 1

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=13123

TANK INFORMATION

TANK ID: TANK TYPE:

NR NOT REPORTED

TANK PRODUCT:

NOT REPORTED

TANK CAPACITY: TANK STATUS:

NOT REPORTED NOT REPORTED

INSTALLATION DATE:

NOT REPORTED

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Underground Storage Tank Facilities (UST)

MAP ID# 28

Distance from Property: 0.08 mi. S

FACILITY INFORMATION

FACILITY ID: 8661
NAME: CLEAR CREEK COUNTY ROAD & BRIDGE
ADDRESS: 3549 CLEAR CREEK CR 312
DUMONT, CO 80436

TOTAL TANK: 3

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=8661

TANK INFORMATION

TANK ID:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:	INSTALLATION DATE:
8661-1	UST	4 - DIESEL	10000	OPEN	10-APR-80
8661-2	UST	1 - UNLEADED REGULAR (RUL)	10000	OPEN	10-APR-80
8661-3	UST	1 - UNLEADED REGULAR (RUL)	6000	OPEN	10-APR-80

OWNER INFORMATION

NAME: CLEAR CREEK COUNTY ROAD & BRIDGE
ADDRESS: PO BOX 362
DUMONT, CO 80436

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Underground Storage Tank Facilities (UST)

MAP ID# 29

Distance from Property: 0.10 mi. N

FACILITY INFORMATION

FACILITY ID: 10641

NAME: BLACKWELL OIL CO

ADDRESS: 1246 MINER ST
IDAHO SPRINGS, CO 80452

TOTAL TANK: 5

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=10641

OWNER INFORMATION

NAME: BLACKWELL OIL CO

ADDRESS: PO BOX 3333
IDAHO SPRINGS, CO 80452

TANK INFORMATION

TANK ID:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:	INSTALLATION DATE:
10641-1	UST	1 - UNLEADED REGULAR (RUL)	8000	OPEN	01-JAN-70
10641-2	UST	2 - UNLEADED MID- GRADE (MUL)	8000	OPEN	01-JAN-70
10641-3	UST	DIESEL DYED #1	8000	OPEN	01-JAN-70
10641-4	UST	DIESEL/DIESEL (MULTI-COMP)	2000	OPEN	01-JAN-70
10641-5	UST	6 - USED OIL (WASTE OIL)	500	OPEN	01-JAN-70

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Leaking Storage Tank Facilities (LST)

MAP ID# 29

Distance from Property: 0.10 mi. N

FACILITY INFORMATION

FACILITY ID: 10641

NAME: BLACKWELL OIL CO

ADDRESS: 1246 MINER ST

IDAHO SPRINGS, CO 80452

LEAKING INFORMATION

EVENT ID: STATUS: RELEASE DATE:

10921 CLOSED 28-AUG-09

COSTIS LINK: http://costis.cdle.state.co.us/event.asp?h_id=10921

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Spills Listing (SPILLS)

MAP ID# 30

Distance from Property: 0.09 mi. N

INCIDENT INFORMATION

CASE NUMBER: 2012-0785 NRC NUMBER: 0

SPILL DATE: 11/16/2012

SPILL LOCATION: 25 DUMONT LANE

SPILL CITY/STATE/ZIP: DUMONT, CO 80452

SPILL COUNTY: CLEAR CREEK

RESPONSIBLE PARTY

NAME: XCELL ENERGY

ADDRESS: 1800 LARIMER ST.

DENVER, CO 80202

COUNTY: DENVER

CONTACT: REBECCA STURGEON

PHONE: 303-294-2189

INCIDENT DETAILS

SOURCE: OTHER

SOURCE TYPE: OIL WELL/WELL SITE

MEDIUM: WATER

WATERWAY: MILL CREEK (TRIBUTARY OF CLEAR CREEK)

CAUSE: OTHER

MATERIAL TYPE: E & P WASTES

MATERIAL DESCRIPTION:

BENTONITE SLURRY

MATERIAL QUANTITY:

2000 GALLONS

WATER QUANTITY:

2000 G

CAUSE INFORMATION:

WHILE BORING A LINE UNDER THE CREEK, DRILL HIT A ROCK CAUSING BOOR TO FRACK OUT INTO THE MILL CREEK. INITIALLY OCCURRED ON 11/16.

ACTION:

AFTER INITIAL DICOVERY XCEL PUT FIBER MESH IN TO SEAL CRACK. RESTARTED TODAY AND DISCOVERED THAT CRACK WASN'T SEALED. CONSULTED WITH ARMY CORPS OF ENGINEERS TODAY. ADVISED TO PUT BMP'S IN WATER. XCEL NOTIFIED CLEAR CREEK EH. SPOKE WITH TRENT HYATT.

RESPONSE COMMENTS:

XCEL SUPERVISOR- JOE MARKANO 720-281-6876.

COMMENTS:

NOT REPORTED

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Underground Storage Tank Facilities (UST)

MAP ID# 31

Distance from Property: 0.09 mi. S

FACILITY INFORMATION

FACILITY ID: 16216
NAME: LAWSON TRAILER COURT
ADDRESS: 2038 CR 308
IDAHO SPRINGS, CO 80452

TOTAL TANK: 2

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=16216

TANK INFORMATION

TANK ID:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:	INSTALLATION DATE:
16216-1	UST	GASOLINE	1000	CLOSED	01-JAN-30
16216-2	UST	GASOLINE	1000	CLOSED	01-JAN-30

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Leaking Storage Tank Facilities (LST)

[MAP ID# 31](#)

Distance from Property: 0.09 mi. S

FACILITY INFORMATION

FACILITY ID: 16216

NAME: LAWSON TRAILER COURT

ADDRESS: 2038 CR 398

IDAHO SPRINGS, CO 80452

LEAKING INFORMATION

EVENT ID: STATUS: RELEASE DATE:

9518 CLOSED 6/7/2004 13:14

COSTIS LINK: http://costis.cdle.state.co.us/event.asp?h_id=9518

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Leaking Storage Tank Facilities (LST)

[MAP ID# 32](#)

Distance from Property: 0.10 mi. NW

FACILITY INFORMATION

FACILITY ID: 17890

NAME: **SPRING STATION LLC**

ADDRESS: 2900 COLORADO BLVD
IDAHO SPRINGS, CO 80452

LEAKING INFORMATION

EVENT ID: STATUS: RELEASE DATE:

9879 **CLOSED** **8/23/2005 7:38**

COSTIS LINK: http://costis.cdle.state.co.us/event.asp?h_id=9879

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Aboveground Storage Tank Facilities (AST)

MAP ID# 32

Distance from Property: 0.10 mi. NW

FACILITY INFORMATION

FACILITY ID: 17890

NAME: **SPRING STATION LLC**

ADDRESS: **2900 COLORADO BLVD
IDAHO SPRINGS, CO 80452**

TOTAL TANK: 1

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=17890

TANK INFORMATION

TANK ID: TANK TYPE:

NR NOT REPORTED

TANK PRODUCT:

NOT REPORTED

TANK CAPACITY: TANK STATUS:

NOT REPORTED NOT REPORTED

INSTALLATION DATE:

NOT REPORTED

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Leaking Storage Tank Facilities (LST)

MAP ID# 33

Distance from Property: 0.11 mi. N

FACILITY INFORMATION

FACILITY ID: 3445

NAME: GET GASSED

ADDRESS: 1856 COLORADO BLVD
IDAHO SPRINGS, CO 80452

LEAKING INFORMATION

EVENT ID: STATUS: RELEASE DATE:

1165 CLOSED 9/3/1996

COSTIS LINK: http://costis.cdle.state.co.us/event.asp?h_id=1165

11372 CLOSED 2/25/2011 10:47

COSTIS LINK: http://costis.cdle.state.co.us/event.asp?h_id=11372

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Spills Listing (SPILLS)

MAP ID# 33

Distance from Property: 0.11 mi. N

INCIDENT INFORMATION

CASE NUMBER: **CO96-458** NRC NUMBER: **0**

SPILL DATE: **9/3/1996**

SPILL LOCATION: **1856 COLORADO BLVD**

SPILL CITY/STATE/ZIP: **IDAHO SPRINGS, CO 80452**

SPILL COUNTY: **CLEAR CREEK**

RESPONSIBLE PARTY

NAME: **GET GASSED CONOCO STATION**

ADDRESS: **1856 COLORADO BLVD**

IDAHO SPRINGS, CO 80452

COUNTY: **CLEAR CREEK**

CONTACT: **SANDY OLHAUSSEN**

PHONE: **303-567-4085**

INCIDENT DETAILS

SOURCE: **UNDERGROUND STORAGE TANK**

SOURCE TYPE: **UNDERGROUND STORAGE TANK**

MEDIUM: **WATER AND LAND**

WATERWAY: **CREEK**

CAUSE: **F**

MATERIAL TYPE: **OIL**

MATERIAL DESCRIPTION:
GASOLINES:AUTOMOTIVE

MATERIAL QUANTITY:
300 G

WATER QUANTITY:
NOT REPORTED

CAUSE INFORMATION:

PUMP IN SUMP LEAKED

ACTION:

NOT REPORTED

RESPONSE COMMENTS:

NOT REPORTED

COMMENTS:

CONNECTION BETWEEN PUMP & PIPING LEAKED. PUT IN BOOMS ALONG CREEK & PADS ON SHORE TO ABSORB GAS, GOI

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Underground Storage Tank Facilities (UST)

MAP ID# 33

Distance from Property: 0.11 mi. N

FACILITY INFORMATION

FACILITY ID: 3445

NAME: GET GASED

ADDRESS: 1856 COLORADO BLVD
IDAHO SPRINGS, CO 80452

TOTAL TANK: 3

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=3445

TANK INFORMATION

TANK ID:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:	INSTALLATION DATE:
3445-1	UST	4 - DIESEL	4000	CLOSED	01-JAN-76
3445-2	UST	1 - UNLEADED REGULAR (RUL)	12000	CLOSED	01-JAN-76
3445-3	UST	3 - UNLEADED PREMIUM (PUL)	12000	CLOSED	01-JAN-76

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Aboveground Storage Tank Facilities (AST)

MAP ID# 33

Distance from Property: 0.11 mi. N

FACILITY INFORMATION

FACILITY ID: 13758

NAME: GET GASED

ADDRESS: 1856 COLORADO BLVD
IDAHO SPRINGS, CO 80452

TOTAL TANK: 1

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=13758

TANK INFORMATION

TANK ID: TANK TYPE:

NR NOT REPORTED

TANK PRODUCT:

NOT REPORTED

TANK CAPACITY: TANK STATUS:

NOT REPORTED NOT REPORTED

INSTALLATION DATE:

NOT REPORTED

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Spills Listing (SPILLS)

MAP ID# 34

Distance from Property: 0.11 mi. N

INCIDENT INFORMATION

CASE NUMBER: **2008-0076** NRC NUMBER: **0**

SPILL DATE: **2/5/2008**

SPILL LOCATION: **9TH AVE. & COLORADO BLVD.**

SPILL CITY/STATE/ZIP: **IDAHO SPRINGS, CO**

SPILL COUNTY: **CLEAR CREEK**

RESPONSIBLE PARTY

NAME: **CITY OF IDAHO SPRINGS PUBLIC WORKS**

ADDRESS: **P.O. BOX 907**

IDAHO SPRINGS, CO 80452

COUNTY: **NOT REPORTED**

CONTACT: **RANDY RASMUSSEN**

PHONE: **303-567-2400**

INCIDENT DETAILS

SOURCE: **SANITARY SEWER**

SOURCE TYPE: **SANITARY SEWER/LIFT STATION**

MEDIUM: **LAND**

WATERWAY: **NOT REPORTED**

CAUSE: **FAILURE EQUIPMENT**

MATERIAL TYPE: **SANITARY SEWER OVERFLOW**

MATERIAL DESCRIPTION:

WASTEWATER

MATERIAL QUANTITY:

300 G

WATER QUANTITY:

NOT REPORTED

CAUSE INFORMATION:

A SANITARY SEWER MAIN HAS EITHER COLLAPSED, SHIFTED OR BROKEN, THUS CAUSING A BACK UP WHICH IS BEING RELEASED THROUGH A MANHOLE.

ACTION:

DAMAGED SANITARY SEWER LINE HAS BEEN ISOLATED AND WILL BE REPAIRED IN A WEEK OR SO. IMPACTED AREAS WERE CLEANED AND DISINFECTED.

RESPONSE COMMENTS:

NO WATERWAYS WERE IMPACTED.

COMMENTS:

NOT REPORTED

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Underground Storage Tank Facilities (UST)

MAP ID# 35

Distance from Property: 0.11 mi. N

FACILITY INFORMATION

FACILITY ID: 946
NAME: WESTERN CONVENIENCE #120
ADDRESS: 2630 COLORADO BLVD
IDAHO SPRINGS, CO 80452

TOTAL TANK: 4

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=946

TANK INFORMATION

TANK ID:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:	INSTALLATION DATE:
946-1	UST	3 - UNLEADED PREMIUM (PUL)	6000	OPEN	01-JAN-87
946-2	UST	1 - UNLEADED REGULAR (RUL)	10000	OPEN	01-JAN-87
946-3	UST	NOT REPORTED	6000	CLOSED	01-JAN-87
946-4	UST	8 - DIESEL/GAS (MULTI-COMP)	12000	OPEN	01-JAN-87

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Leaking Storage Tank Facilities (LST)

[MAP ID# 36](#)

Distance from Property: 0.12 mi. NW

FACILITY INFORMATION

FACILITY ID: 10789

NAME: SCORPION SHELL

ADDRESS: 2808 COLORADO BLVD
IDAHO SPRINGS, CO 80452

LEAKING INFORMATION

EVENT ID: STATUS: RELEASE DATE:

9509 CLOSED 5/26/2004 8:05

COSTIS LINK: http://costis.cdle.state.co.us/event.asp?h_id=9509

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Solid Waste Facilities (SWF)

MAP ID# 36

Distance from Property: 0.12 mi. NW

SITE INFORMATION

CRC32: 4256013643

GS ID: 1188*WTR

NAME: SCORPION TEXACO INC

ADDRESS: 2808 COLORADO BOUL
IDAHO SPRINGS, CO 80452

COUNTY: NOT REPORTED

CERTIFICATION ID: 1188

FACILITY TYPE: REGISTERED TIRE HAULER

TIRE RETAILER/WHOLESALE: YES

HAULER: NO

END USER: NO

COLLECTION: NO

PROCESSOR: NO

MONOFILL: NO

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Underground Storage Tank Facilities (UST)

MAP ID# 36

Distance from Property: 0.13 mi. NW

FACILITY INFORMATION

FACILITY ID: 10638
NAME: BLACKWELL OIL CO
ADDRESS: 2806 COLORADO BLVD
IDAHO SPRINGS, CO 80452

TOTAL TANK: 13

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=10638

OWNER INFORMATION

NAME: BLACKWELL OIL CO
ADDRESS: PO BOX 3333
IDAHO SPRINGS, CO 80452

TANK INFORMATION

TANK ID:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:	INSTALLATION DATE:
10638-1	UST	1 - UNLEADED REGULAR (RUL)	10000	CLOSED	06-MAY-73
10638-2	UST	2 - UNLEADED MID- GRADE (MUL)	10000	CLOSED	06-MAY-73
10638-3	UST	3 - UNLEADED PREMIUM (PUL)	10000	CLOSED	06-MAY-73
10638-4	UST	4 - DIESEL	500	CLOSED	06-MAY-73
10638-8	UST	Z NOT LISTED	3000	CLOSED	06-MAY-73
10638-9	UST	Z NOT LISTED	3000	CLOSED	06-MAY-73
10638-10	UST	Z NOT LISTED	3000	CLOSED	06-MAY-73
10638-11	UST	Z NOT LISTED	999999999	CLOSED	06-MAY-73
10638-12	UST	Z NOT LISTED	999999999	CLOSED	06-MAY-73
10638-13	UST	Z NOT LISTED	999999999	CLOSED	06-MAY-73
10638-5	UST	1 - UNLEADED REGULAR (RUL)	10000	OPEN	06-MAY-73
10638-6	UST	2 - UNLEADED MID- GRADE (MUL)	10000	OPEN	06-MAY-73
10638-7	UST	3 - UNLEADED PREMIUM (PUL)	10000	OPEN	06-MAY-73

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Underground Storage Tank Facilities (UST)

MAP ID# 36

Distance from Property: 0.12 mi. NW

FACILITY INFORMATION

FACILITY ID: 10789

NAME: SCORPION SHELL

ADDRESS: 2808 COLORADO BLVD
IDAHO SPRINGS, CO 80452

TOTAL TANK: 5

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=10789

OWNER INFORMATION

NAME: SCORPION SHELL

ADDRESS: PO BOX 189
IDAHO SPRINGS, CO 80452

TANK INFORMATION

TANK ID:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:	INSTALLATION DATE:
10789-1	UST	1 - UNLEADED REGULAR (RUL)	8000	OPEN	01-DEC-89
10789-2	UST	3 - UNLEADED PREMIUM (PUL)	8000	OPEN	01-DEC-89
10789-3	UST	4 - DIESEL	8000	OPEN	01-DEC-89
10789-4	UST	6 - USED OIL (WASTE OIL)	6000	CLOSED	01-DEC-89
10789-5	UST	6 - USED OIL (WASTE OIL)	560	CLOSED	01-DEC-89

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Underground Storage Tank Facilities (UST)

MAP ID# 36

Distance from Property: 0.13 mi. NW

FACILITY INFORMATION

FACILITY ID: 14756
NAME: TALL COUNTRY IDAHO SPRINGS
ADDRESS: 2806 COLORADO BLVD
IDAHO SPRINGS, CO 80452

TOTAL TANK: 6

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=14756

OWNER INFORMATION

NAME: BLACKWELL OIL CO
ADDRESS: PO BOX 3333
IDAHO SPRINGS, CO 80452

TANK INFORMATION

TANK ID:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:	INSTALLATION DATE:
14756-1	UST	NOT LISTED	3000	PERMANENTLY CLOSED / /	
14756-2	UST	NOT LISTED	3000	PERMANENTLY CLOSED / /	
14756-3	UST	NOT LISTED	3000	PERMANENTLY CLOSED / /	
14756-4	UST	NOT LISTED	UNKNOWN	PERMANENTLY CLOSED / /	
14756-5	UST	NOT LISTED	UNKNOWN	PERMANENTLY CLOSED / /	
14756-6	UST	NOT LISTED	UNKNOWN	PERMANENTLY CLOSED / /	

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Leaking Storage Tank Facilities (LST)

MAP ID# 36

Distance from Property: 0.13 mi. NW

FACILITY INFORMATION

FACILITY ID: 10638

NAME: BLACKWELL OIL CO

ADDRESS: 1246 MINER ST

IDAHO SPRINGS, CO 80452

LEAKING INFORMATION

EVENT ID:	STATUS:	RELEASE DATE:
10921	CLOSED	8/28/2009 15:56
COSTIS LINK:	http://costis.cdle.state.co.us/event.asp?h_id=10921	
7377	CLOSED	4/1/1999
COSTIS LINK:	http://costis.cdle.state.co.us/event.asp?h_id=7377	
9276	CLOSED	7/22/2003 9:24
COSTIS LINK:	http://costis.cdle.state.co.us/event.asp?h_id=9276	
10802	CLOSED	2/18/2009 8:00
COSTIS LINK:	http://costis.cdle.state.co.us/event.asp?h_id=10802	

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Spills Listing (SPILLS)

MAP ID# 37

Distance from Property: 0.12 mi. N

INCIDENT INFORMATION

CASE NUMBER: **2007-0493** NRC NUMBER: **0**

SPILL DATE: **5/15/2007**

SPILL LOCATION: **2330 RIVERSIDE DR**

SPILL CITY/STATE/ZIP: **IDAHO SPRINGS, CO 80452**

SPILL COUNTY: **CLEAR CREEK**

RESPONSIBLE PARTY

NAME: **ARGO TREATMENT FACILITY**

ADDRESS: **2330 RIVERSIDE DR**

IDAHO SPRINGS, CO 80452

COUNTY: **CLEAR CREEK**

CONTACT: **BOB OLSON**

PHONE: **303-567-9281**

INCIDENT DETAILS

SOURCE: **OTHER**

SOURCE TYPE: **TREATMENT FACILITY**

MEDIUM: **WATER**

WATERWAY: **CLEAR CREEK**

CAUSE: **ERROR OPERATOR**

MATERIAL TYPE: **OTHER**

MATERIAL DESCRIPTION:

HEAVY METALS WATER

MATERIAL QUANTITY:

18000 G

WATER QUANTITY:

18000 G

CAUSE INFORMATION:

DID NOT HAVE ENOUGH LIME TO TREAT FULL INCOMING FLOW, LIME SHOULD BE DELIVERED BY 8AM AND WILL REMEDY SITUATION. RELEASING APPROX 100 GAL/MINUTER OF UNTREATED WATER CONTAMINATED WITH HEAVY METALS.

UPDATE: UNTREATED WATER FLOW STOPPED AT 9:30AM.

ACTION:

RAN OUT OF LIME FOR TREATMENT, DELIVERY SHOULD OCCUR AT 8AM.

RESPONSE COMMENTS:

NOT REPORTED

COMMENTS:

NOT REPORTED

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Historical Solid Waste Landfills (HISTSWLF)

MAP ID# 38

Distance from Property: 0.12 mi. S

SITE INFORMATION

UNIQUE ID: 00070-0001096

NAME: SILVER SPRUCE MILL

ADDRESS: ADDRESS NOT REPORTED

CITY NOT REPORTED, CO

DIRECTIONS: NOT REPORTED

COUNTY: CLEAR CREEK

SITE DETAILS

AGENCY ID: NOT REPORTED

DETAIL1:

S. CLEAR CREEK #4,6,7,8 UNKNOWN. ; TRS- T03S R72W S32

DETAIL2:

TYPE- MILL WASTE; FILL- TAILINGS. ; OPER/OWNER/OTHR- , ,

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Spills Listing (SPILLS)

MAP ID# 39

Distance from Property: 0.13 mi. NW

INCIDENT INFORMATION

CASE NUMBER: 2008-0170 NRC NUMBER: 0

SPILL DATE: 3/20/2008

SPILL LOCATION: COLORADO BLVD & 16TH AVE

SPILL CITY/STATE/ZIP: IDAHO SPRINGS, CO 80452

SPILL COUNTY: CLEAR CREEK

RESPONSIBLE PARTY

NAME: IDAHO SPRINGS UTILITIES

ADDRESS: STREET NOT REPORTED

IDAHO SPRINGS, CO 80452

COUNTY: CLEAR CREEK

CONTACT: RANDY RASSMUSSEN

PHONE: NOT REPORTED

INCIDENT DETAILS

SOURCE: SANITARY SEWER

SOURCE TYPE: SANITARY SEWER/LIFT STATION

MEDIUM: NOT REPORTED

WATERWAY: CLEAR CREEK

CAUSE: FAILURE EQUIPMENT

MATERIAL TYPE: SANITARY SEWER OVERFLOW

MATERIAL DESCRIPTION:

SANITARY SEWER OVERFLOW

MATERIAL QUANTITY:

2300 G

WATER QUANTITY:

800 G

CAUSE INFORMATION:

GROUT FROM REGROUTING OPERATION ENTERED MANHOLE, RESULTING IN BLOCKAGE, RELEASE, AND OVERFLOW.

MATERIAL RELEASED TO GROUND AND TO CLEAR CREEK.

ACTION:

RANDY RASSMUSSEN ACTIVATED DOWN STREAM USER NOTIFICATION CALL DOWN LIST. CONTRACTOR CALLED. CLEAN FILL DIRT APPLIED TO STREET AND BANK OF CLEAR CREEK TO ABSORB RELEASED MATERIAL. SSO UNDER CONTROL AT 8:30 AT 03/21/08.

RESPONSE COMMENTS:

NOT REPORTED

COMMENTS:

NOT REPORTED

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GeoSearch

www.geo-search.com 888-396-0042

Spills Listing (SPILLS)

MAP ID# 40

Distance from Property: 0.13 mi. N

INCIDENT INFORMATION

CASE NUMBER: 2006-620 NRC NUMBER: 0

SPILL DATE: 6/22/2006

SPILL LOCATION: 920 COLORADO BLVD

SPILL CITY/STATE/ZIP: IDAHO SPRINGS, CO

SPILL COUNTY: CLEAR CREEK

RESPONSIBLE PARTY

NAME: JOHNS ROPER (AKA MICHAEL MCCOMMON OR RYAN FARMER)

ADDRESS: STREET NOT REPORTED

IDAHO SPRINGS, CO

COUNTY: CLEAR CREEK

CONTACT: NOT REPORTED

PHONE: NOT REPORTED

INCIDENT DETAILS

SOURCE: FIXED FACILITY

SOURCE TYPE: METH LAB

MEDIUM: FIXED FACILITY

WATERWAY: NOT REPORTED

CAUSE: CRIMINAL INTENT

MATERIAL TYPE: METH LAB

MATERIAL DESCRIPTION:

METH LAB RELATED

MATERIAL QUANTITY:

NOT REPORTED

WATER QUANTITY:

NOT REPORTED

CAUSE INFORMATION:

NOT REPORTED

ACTION:

SUSECT WAS TAKEN INTO CUSTODY ON 6/26/06. SEISURE OF METH LAB RELATED MATERIALS.

RESPONSE COMMENTS:

NOT REPORTED

COMMENTS:

NOT REPORTED

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Clandestine Drug Laboratory Locations (CDL)

[MAP ID# 40](#)

Distance from Property: 0.13 mi. N

SITE INFORMATION

ID#: 448385837

ADDRESS: 920 COLORADO BOULEVARD

CITY: IDAHO SPRINGS

STATE: CO

COUNTY: CLEAR CREEK

SEIZURE DATE: 6/22/2006

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Clandestine Drug Laboratory Locations (CDL)

[MAP ID# 40](#)

Distance from Property: 0.13 mi. N

SITE INFORMATION

GS ID: 3424068808

LAB NUM: 17

LOCATION: 920 COLORADO BLVD.
IDAHO SPRINGS, CO 80452

COUNTY: CLEAR CREEK

LOCATION TYPE: HOUSE

DATE: 06/22/06

JURISDICTION: IDAHO SPRINGS

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Spills Listing (SPILLS)

MAP ID# 41

Distance from Property: 0.21 mi. NW

INCIDENT INFORMATION

CASE NUMBER: 2005-436 NRC NUMBER: 0

SPILL DATE: 7/8/2005

SPILL LOCATION: HWY 40 & HWY 257

SPILL CITY/STATE/ZIP: EMPIRE, CO

SPILL COUNTY: CLEAR CREEK

RESPONSIBLE PARTY

NAME: EVERIST MATERIAL

ADDRESS: 28755 HWY 9

SILVERTHORNE, CO

COUNTY: NOT REPORTED

CONTACT: NOT REPORTED

PHONE: 970-468-2721

INCIDENT DETAILS

SOURCE: HIGHWAY/ROADWAY

SOURCE TYPE: TRUCK/TRAILER

MEDIUM: LAND

WATERWAY: NOT REPORTED

CAUSE: TRANSPORTATION ACCIDENT

MATERIAL TYPE: OIL

MATERIAL DESCRIPTION:

DIESEL

MATERIAL QUANTITY:

85 G

WATER QUANTITY:

NOT REPORTED

CAUSE INFORMATION:

A CAR RAN A STOP SIGN A BROADSIDED A TRUCK AT THE ABOVE LISTED LOCATION. THE IMPACT PUNCTURED THE TRUCK'S SADDLE TANK ALLOWING FOR THE RELEASE OF DIESEL FUEL PRIMARILY ON THE ROADWAY.

ACTION:

RM CAT WAS CONTACTED TO PERFORM THE CLEANUP OF ALL RELEASED MATERIALS AND IMPACTED AREAS.

RESPONSE COMMENTS:

NOT REPORTED

COMMENTS:

NO WATERWAYS WERE IMPACTED.

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Clandestine Drug Laboratory Locations (CDL)

[MAP ID# 42](#)

Distance from Property: 0.23 mi. N

SITE INFORMATION

ID#: 863187168

ADDRESS: 1938 WALL ST

CITY: IDAHO SPRINGS

STATE: CO

COUNTY: CLEAR CREEK

SEIZURE DATE: 4/15/2005

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No Further Remedial Action Planned Sites (NFRAP)

MAP ID# 43

Distance from Property: 0.26 mi. N

FACILITY INFORMATION

EPA ID#: COD983793753

SITE ID#: 0801260

NAME: CSM EXPERIMENTAL MINE

ADDRESS: 365 8TH STREET

IDAHO SPRINGS, CO 80452

COUNTY: CLEAR CREEK

ACTION	START DATE	COMPLETION DATE	RESPONSIBILITY
DS - DISCOVERY	NOT REPORTED	6/15/1992 00:00:00	EPA FUND
PA - PRELIMINARY ASSESSMENT	NOT REPORTED	5/17/1993 00:00:00	EPA FUND
VS - ARCHIVE SITE	NOT REPORTED	5/17/1993 00:00:00	EPA IN-HOUSE

ACTION DESCRIPTIONS

DS - (DISCOVERY) - THE PROCESS BY WHICH A POTENTIAL HAZARDOUS WASTE SITE IS BROUGHT TO THE ATTENTION OF THE EPA. THE PROCESS CAN OCCUR THROUGH THE USE OF SEVERAL MECHANISMS SUCH AS A PHONE CALL OR REFERRAL BY ANOTHER GOVERNMENT AGENCY.

PA - (PRELIMINARY ASSESSMENT) - COLLECTION OF DIVERSE EXISTING INFORMATION ABOUT THE SOURCE AND NATURE OF THE SITE HAZARD. IT IS EPA POLICY TO COMPLETE THE PRELIMINARY ASSESSMENT WITHIN ONE YEAR OF SITE DISCOVERY.

VS - (ARCHIVE SITE) - THE DECISION IS MADE THAT NO FURTHER ACTIVITY IS PLANNED AT THE SITE.

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Comprehensive Environmental Response, Compensation & Liability Information System (CERCLIS)

MAP ID# 43

Distance from Property: 0.26 mi. N

FACILITY INFORMATION

EPA ID#: **COD983793753**

SITE ID#: **0801260**

NAME: **CSM EXPERIMENTAL MINE**

ADDRESS: **365 8TH STREET**

IDAHO SPRINGS, CO 0452

COUNTY: **CLEAR CREEK**

NATIONAL PRIORITY LISTING: **N - NOT ON THE NPL**

FEDERAL FACILITY CLASSIFICATION: **N - NOT A FEDERAL FACILITY**

NON-NPL STATUS: **NF - NFRAP**

NON-NPL STATUS DATE: **NOT REPORTED**

PHYSICAL CLASSIFICATION OF SITE / INCIDENT: **MINES/TAILINGS**

SITE DESCRIPTION - **NO SITE DESCRIPTION INFORMATION AVAILABLE -**

SITE HISTORY - **NO SITE HISTORY INFORMATION AVAILABLE -**

ACTIONS

TYPE: **DS - DISCOVERY**

START DATE: **NR**

COMPLETION DATE: **06/15/1992**

ACTION TYPE DEFINITION:

THE PROCESS BY WHICH A POTENTIAL HAZARDOUS WASTE SITE IS BROUGHT TO THE ATTENTION OF THE EPA. THE PROCESS CAN OCCUR THROUGH THE USE OF SEVERAL MECHANISMS SUCH AS A PHONE CALL OR REFERRAL BY ANOTHER GOVERNMENT AGENCY.

TYPE: **PA - PRELIMINARY ASSESSMENT**

START DATE: **NR**

COMPLETION DATE: **05/17/1993**

ACTION TYPE DEFINITION:

COLLECTION OF DIVERSE EXISTING INFORMATION ABOUT THE SOURCE AND NATURE OF THE SITE HAZARD. IT IS EPA POLICY TO COMPLETE THE PRELIMINARY ASSESSMENT WITHIN ONE YEAR OF SITE DISCOVERY.

TYPE: **VS - ARCHIVE SITE**

START DATE: **NR**

COMPLETION DATE: **05/17/1993**

ACTION TYPE DEFINITION:

THE DECISION IS MADE THAT NO FURTHER ACTIVITY IS PLANNED AT THE SITE.

CONTAMINANTS - **NO CONTAMINATION INFORMATION AVAILABLE -**

LISTING OF PUBLISHED INSTITUTIONAL CONTROL SITE REPORT - **NOT AN INSTITUTIONAL CONTROL SITE -**

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GeoSearch

www.geo-search.com 888-396-0042

Report Summary of Unlocatable Sites

Database Type	Site ID#	Site Name	Address	City	Zip Code
LUSTTRUST	00023-0000065	DOWNIEVILLE	DOWNIEVILLE	DOWNIEVILLE	80000
AST	13518	DOWNIEVILLE	I-70 IN DOWNIEVILLE	DOWNIEVILLE	80436
HISTSWLF	00070-0001108	GREATER NEBRASKA MIN.DUMONT,C	ADDRESS NOT REPORTED	DUMONT	
UST	9467	PESTER #1265	HWY I-70	DUMONT	80436
LST	13518*LST	DOWNIEVILLE	I-70 IN DOWNIEVILLE	DOWNIEVILLE	80436
RODS	COD980717557	CENTRAL CITY, CLEAR CREEK	NEAR TOWN	IDAHO SPRINGS	
HISTSWLF	00070-0001119	EQUITY GOLD MCCLELLAND TUNNEL	ADDRESS NOT REPORTED	IDAHO SPRINGS	
HISTSWLF	00070-0001117	JACK PINE MINING BLACK E.MINE	ADDRESS NOT REPORTED	IDAHO SPRINGS	
HISTSWLF	00070-0001118	JUMBO WILDCAT IDAHO SPRINGS	ADDRESS NOT REPORTED	IDAHO SPRINGS	
HISTSWLF	00070-0001120	EQUITY GOLD STANLEY MINE	ADDRESS NOT REPORTED	IDAHO SPRINGS	
HISTSWLF	00070-0001121	CONCORD MINERALS HIDDEN V.MIL	ADDRESS NOT REPORTED	IDAHO SPRINGS	
HISTSWLF	00070-0001122	BLACK EAGLE MILL	ADDRESS NOT REPORTED	IDAHO SPRINGS	
HISTSWLF	00070-0001123	OPEN PIT WITH FILTER OLD	ADDRESS NOT REPORTED	IDAHO SPRINGS	
LUSTTRUST	00023-0000066	IDAHO SPRINGS #1	IDAHO SPRINGS #1	IDAHO SPRINGS	80000
SPILLS	2001-322		I-70 WESTBOUND	IDAHO SPRINGS	
SPILLS	2002-410		I-70 WB	IDAHO SPRINGS	
SPILLS	2004-241		I-70	IDAHO SPRINGS	
SPILLS	2006-104		EB I-70	IDAHO SPRINGS	
SPILLS	2006-765		I-70	IDAHO SPRINGS	
SPILLS	2007-0593		I-70 WEST BOUND	IDAHO SPRINGS	
SPILLS	2009-0411		I-70	IDAHO SPRINGS	
SPILLS	2001-476		I-70 WB	IDAHO SPRINGS	
SPILLS	CO99-188		IDAHO SPRINGS WASTE WATER TREATMENT PLANT	IDAHO SPRINGS	
SPILLS	2005-399		IDAHO SPRINGS WASTEWATER TREATMENT PLANT	IDAHO SPRINGS	

Report Summary of Unlocatable Sites

Database Type	Site ID#	Site Name	Address	City	Zip Code
ERNSCO	2135250854		STATE ROUTE 6	IDAHO SPRINGS	
ERNSCO	1368208180		INTERSTATE 70	IDAHO SPRINGS	
ERNSCO	331934020		I-70 WEST BOUND AT THE BOTTOM OF EXIT 24	IDAHO SPRINGS	
ERNSCO	3320950651		INTERSTATE 70 WEST BOUND AT MILE MARKER	IDAHO SPRINGS	
ERNSCO	3948304149		EB I-70	IDAHO SPRINGS	
ERNSCO	2739799460		STATE HIGHWAY 70	IDAHO SPRINGS	
RCRANGR08	COD983778028*NG	IDAHO SPRINGS OLD WATER PLANT	10 COUNTY RD 314	IDAHO SPRINGS	80452
HMIRSR08	1996080131		I-70	IDAHO SPRINGS	80452
UST	7364	FEDERAL AVIATION ADMINISTRATION	NO ST ADDRESS	IDAHO SPRINGS	80452
HMIRSR08	I-2010070581		HWY 6	IDAHO SPRING	80452
CERCLIS	COD980717557*CC	CENTRAL CITY, CLEAR CREEK	NEAR TOWN	IDAHO SPRINGS	80452
EC	COD980717557	CENTRAL CITY, CLEAR CREEK	NEAR TOWN	IDAHO SPRINGS	80452
RCRANGR08	COR000005058*NG	U S DRUG ENFORCEMENT AGENCY	TWO BROTHERS MINE	IDAHO SPRINGS	80452

Leaking Underground Storage Tanks Trust Fund Sites (LUSTTRUST)

FACILITY INFORMATION

UNIQUE ID: 00023-0000065

AGENCY ID: NOT REPORTED

NAME: DOWNIEVILLE

ADDRESS: DOWNIEVILLE

DOWNIEVILLE, CO 80000

COUNTY: CLEAR CREEK

COMMENTS: FROM AN OLD CDPHE LIST OF LOCATIONS WHERE TANK LEAKS WERE SUSPECTED AND LUST TRUST FUNDS WERE USED IN AN EFFORT TO IDENTIFY THE SOURCE. OFTEN, THE SOURCE WAS FOUND NEARBY AND WAS ENTERED IN THE LUST DATABASE (NOW COSTIS).

THIS LISTING NOT ENTERED INTO COSTIS BACK WHEN CDPHE TRANSFERRED RESPONSIBILITY FOR TANK LEAKS TO OPS. FEW PEOPLE AT OPS KNOW OF THIS OLD CDPHE LIST, AND ANY ASSOCIATED FILES ARE THOUGHT TO HAVE BEEN DISPOSED OF OR MISPLACED.

COSTIS LINK: NOT REPORTED

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Aboveground Storage Tank Facilities (AST)

FACILITY INFORMATION

FACILITY ID: 13518
NAME: DOWNIEVILLE
ADDRESS: I-70 IN DOWNIEVILLE
DOWNIEVILLE, CO 80436

TOTAL TANK: 1

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=13518

TANK INFORMATION

TANK ID:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:	INSTALLATION DATE:
NR	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED

OWNER INFORMATION

NAME: DOWNIEVILLE
ADDRESS: I-70 IN DOWNIEVILLE
DUMONT, CO 80436

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Historical Solid Waste Landfills (HISTSWLF)

SITE INFORMATION

UNIQUE ID: 00070-0001108

NAME: GREATER NEBRASKA MIN.DUMONT,C

ADDRESS: ADDRESS NOT REPORTED
DUMONT, CO

DIRECTIONS: NOT REPORTED

COUNTY: CLEAR CREEK

SITE DETAILS

AGENCY ID: NOT REPORTED

DETAIL1:

5B-MNG 7A-1POND 80-CO0031801. HAZARD TYPE: CHEMICAL. IMPACT: GW.; TRS- T03 R73 S34; ACRES- <1

DETAIL2:

TYPE- IMPOUNDMENT; FILL- TAILINGS. ; OPER/OWNER/OTHR- // GREATER NEBRASKA MIN, ,

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Underground Storage Tank Facilities (UST)

FACILITY INFORMATION

FACILITY ID: **9467**
NAME: **PESTER #1265**
ADDRESS: **HWY I-70**
DUMONT, CO 80436

TOTAL TANK: **4**

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=9467

OWNER INFORMATION

NAME: **UNKNOWN #2**
ADDRESS: **UNKNOWN #2**
GREELEY, CO 80631

TANK INFORMATION

TANK ID:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:	INSTALLATION DATE:
9467-1	UST	GASOLINE	10000	CLOSED	NOT REPORTED
9467-2	UST	GASOLINE	10000	CLOSED	NOT REPORTED
9467-3	UST	GASOLINE	999999999	CLOSED	NOT REPORTED
9467-4	UST	GASOLINE	999999999	CLOSED	NOT REPORTED

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Leaking Storage Tank Facilities (LST)

FACILITY INFORMATION

FACILITY ID:

NAME:

ADDRESS:

,

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Record of Decision System (RODS)

EPA ID: COD980717557
NAME: CENTRAL CITY, CLEAR CREEK
ADDRESS: NEAR TOWN, IDAHO SPRINGS, CO
COUNTY: CLEAR CREEK
ROD DATE: 09/29/04
ROD TYPE: RECORD OF DECISION
ROD ID: 08002572004ROD712
CENTRAL CITY, CLEAR CREEK
ABSTRACT SITE NAME: CENTRAL CITY, CLEAR CREEK
ADDRESS: NEAR TOWN
CITY & STATE: IDAHO SPRINGS CO 80452
COUNTY: CLEAR CREEK

EPA ID: COD980717557
EPA REGION: 08

NPL STATUS: CURRENTLY ON THE FINAL NPL

ROD TYPE: RECORD OF DECISION
ROD ID: EPA/541/R-04/712
ROD DATE: 09/29/2004
OPERABLE UNIT(S): 04
ROD DATE: 09/30/91
ROD TYPE: RECORD OF DECISION
ROD ID: 08002571991ROD055
CENTRAL CITY, CLEAR CREEK
ABSTRACT SITE NAME: CENTRAL CITY, CLEAR CREEK
ADDRESS: NEAR TOWN
CITY & STATE: IDAHO SPRINGS CO 80452
COUNTY: CLEAR CREEK

EPA ID: COD980717557
EPA REGION: 08

NPL STATUS: CURRENTLY ON THE FINAL NPL

ROD TYPE: RECORD OF DECISION
ROD ID: EPA/ROD/R08-91/055
ROD DATE: 09/30/1991
OPERABLE UNIT(S): 03

MEDIA: GROUNDWATER

CONTAMINANT: METALS, ARSENIC, CADMIUM, CHROMIUM, LEAD

Record of Decision System (RODS)

ABSTRACT:

THE CENTRAL CITY-CLEAR CREEK SITE IS AN ACTIVE MINING FACILITY IN CENTRAL CITY, CLEAR CREEK AND GILPIN COUNTIES, COLORADO. LAND USE IN THE AREA IS PREDOMINANTLY COMMERCIAL AND RECREATIONAL, AND AN ARTIFICIAL WETLANDS AREA IS LOCATED ONSITE. THE SITE LIES WITHIN THE 400-SQUARE MILE DRAINAGE BASIN OF CLEAR CREEK, WHICH SERVES AS A DRINKING WATER SOURCE FOR SEVERAL MUNICIPALITIES. GOLD MINING OPERATIONS BEGAN ONSITE IN 1859 AND PORTIONS OF THE SITE BECAME SOME OF THE MOST HEAVILY MINED AREAS OF COLORADO. EXTRACTION OF SURFACE ORES LED TO AN INCREASE IN THE DEPTH OF THE MINING AND, CONSEQUENTLY, DRAINAGE TUNNELS WERE CONSTRUCTED TO CONTROL WATER DRAINAGE PROBLEMS. PRESENTLY, SIX MAJOR MINE DRAINAGE TUNNELS ARE THOUGHT TO BE PRINCIPAL DISCHARGE SOURCES OF ACID MINE WATER CONTAINING HIGH CONCENTRATIONS OF METALS TO SURFACE WATERS INCLUDING CLEAR CREEK AND ITS TRIBUTARIES. IN ADDITION, OVER 21 MINE TAILINGS PILES WITH AN ESTIMATED TOTAL VOLUME OF OVER 2,000,000 CUBIC YARDS AT NUMEROUS LOCATIONS THROUGHOUT THE SITE ARE THOUGHT TO BE MAJOR SOURCES OF CONTAMINATION. IN RESPONSE TO SITE CONTAMINATION, EPA HAS CONDUCTED THREE REMOVAL ACTIONS SINCE 1987. IN 1987, EPA CONDUCTED A REMOVAL ACTION TO PREVENT THE COLLAPSE OF A MINE WASTE PILE. ALSO IN 1987, EPA CONDUCTED A SECOND REMOVAL ACTION, WHICH INVOLVED CONNECTING THREE RESIDENCES WITH PRIVATE WELLS TO THE MUNICIPAL PUBLIC WATER SUPPLY. IN 1991, EPA CONDUCTED A THIRD REMOVAL ACTION, WHICH INVOLVED REMOVING UNCONTAMINATED MERCURY FROM A SMALL TRAILER. BECAUSE OF THE COMPLEXITY OF THE SITE, EPA DIVIDED THE SITE INTO SEVERAL OPERABLE UNITS (OUS) FOR REMEDIATION. A 1987 RECORD OF DECISION (ROD) ADDRESSED OU1 AND PROVIDED FOR PASSIVE TREATMENT OF ACID MINE WATER DISCHARGE FROM FIVE DISCHARGING TUNNELS: NATIONAL, GREGORY INCLINE, ARGO TUNNEL, BIG FIVE, AND QUARTZ HILL TUNNELS. A 1988 ROD ADDRESSED OU2 AND PROVIDED FOR THE REMEDIATION OF MINE WASTE PILES IN THE IMMEDIATE PROXIMITY OF THE FIVE DISCHARGING TUNNELS. THIS ROD SUPERSEDES THE REMEDY PROVIDED FOR OU1 IN THE 1987 ROD BY INCLUDING ACTIVE TREATMENT OF THE ARGO TUNNEL AND DELAYING A DECISION ON TREATING THE DISCHARGES FROM THE BIG FIVE, NATIONAL AND QUARTZ HILL TUNNELS, AND THE GREGORY INCLINE. EPA WILL CONSIDER A SUBSEQUENT ROD TO ADDRESS TREATMENT OF THE REMAINING ONSITE TUNNELS PENDING FURTHER MONITORING AND TREATABILITY STUDIES. THE PRIMARY CONTAMINANTS OF CONCERN AFFECTING THE GROUND WATER ARE METALS INCLUDING ARSENIC, CADMIUM, CHROMIUM, AND LEAD.

THE SELECTED REMEDIAL ACTION FOR THIS SITE INCLUDES CONSTRUCTING PHYSICAL BARRIERS FOR MINE WASTE PILES (TO REDUCE METALS LOADING TO SURFACE WATER AND HUMAN HEALTH RISKS FROM INGESTION OR INHALATION OF METALS); TREATING DISCHARGES FROM THE BURLEIGH TUNNEL PASSIVELY THROUGH THE USE OF MAN-MADE WETLANDS; TREATING DISCHARGES FROM THE ARGO TUNNEL ACTIVELY ALONG WITH GROUND WATER PUMPED FROM THE IMMEDIATE AREA; PROVIDING AN ALTERNATE WATER SUPPLY WHERE NEEDED; INVOKING AN INTERIM ACTION WAIVER OF ARARS FOR DISCHARGES FROM THE NATIONAL, QUARTZ HILL, AND BIG FIVE TUNNELS, AND THE GREGORY INCLINE, AND INVOKING A TECHNICAL IMPRACTICALITY WAIVER FOR RESTORING GROUND WATER TO MCLS; COLLECTING DISCHARGES FROM THE NATIONAL AND QUARTZ HILL TUNNELS, AND GREGORY INCLINE WITH FINAL DISPOSITION TO BE ESTABLISHED PENDING FURTHER MONITORING AND TREATABILITY STUDIES; AND IMPLEMENTING INSTITUTIONAL CONTROLS. THE ESTIMATED PRESENT WORTH COST FOR THIS REMEDIAL ACTION IS \$23,510,000, WHICH INCLUDES AN ANNUAL O&M COST OF \$1,204,000 FOR 30 YEARS.

PERFORMANCE STANDARDS OR GOALS; THE PASSIVE TREATMENT SYSTEM WILL REMOVE APPROXIMATELY 99.5 PERCENT OF THE ZINC, 99.84 PERCENT OF THE COPPER, AND 9.7 PERCENT OF THE MANGANESE FROM TUNNEL DISCHARGE. ACTIVE TREATMENT WILL REMOVE 100 PERCENT OF THE ZINC AND MANGANESE, AND 99.84 PERCENT OF THE COPPER.

REMEDY:

THE CLEAR CREEK/CENTRAL CITY SUPERFUND SITE CONSISTS OF THREE OPERABLE UNITS WHICH WERE DESIGNATED TO ADDRESS HEAVY METALS CONTAMINATION ASSOCIATED WITH HISTORIC MINING ACTIVITY IN THE CLEAR CREEK

Record of Decision System (RODS)

DRAINAGE BASIN. OPERABLE UNIT #1 WAS DESIGNATED TO ADDRESS THE DISCHARGE OF ACID MINE WATER FROM FIVE TUNNELS (NATIONAL AND GREGORY INCLINE NEAR BLACK HAWK, THE QUARTZ HILL TUNNEL SOUTHWEST OF CENTRAL CITY, AND THE ARGO AND BIG FIVE TUNNELS IN IDAHO SPRINGS). THE OPERABLE UNIT #1 RECORD OF DECISION WAS SIGNED IN SEPTEMBER, 1987. OPERABLE UNIT #2 WAS DESIGNATED TO ADDRESS REMEDIATION OF MINE WASTE PILES IN IMMEDIATE PROXIMITY TO THE FIVE DISCHARGING TUNNELS REFERENCED ABOVE. THE OPERABLE UNIT #2 RECORD OF DECISION WAS SIGNED IN MARCH, 1988. OPERABLE UNIT #3 WAS ORIGINALLY DESIGNATED TO ADDRESS CONTROL OF SURGE EVENTS FROM THE ARGO TUNNEL. THE RECORD OF DECISION FOR OPERABLE UNIT #3 WAS DELAYED PENDING THE OUTCOME OF THE PHASE II INVESTIGATIONS. IN 1988 THE PHASE II INVESTIGATION WAS INITIATED TO TAKE A COMPREHENSIVE VIEW OF THE APPROXIMATELY 400 SQUARE MILE CLEAR CREEK DRAINAGE BASIN. THIS RECORD OF DECISION IS FOR THE PHASE II INVESTIGATIONS. THIS RECORD OF DECISION SUPERSEDES THE OPERABLE UNIT #1 RECORD OF DECISION AND INCLUDES A DECISION FOR THE ORIGINAL OPERABLE UNIT #3. THE OPERABLE UNIT #2 RECORD OF DECISION REMAINS UNCHANGED BY THIS RECORD OF DECISION. FOR THE PURPOSES OF OPERABLE UNIT DESIGNATION, OPERABLE UNIT #3 IS HEREBY REDESIGNATED AND WILL BE EQUIVALENT IN MEANING TO THE PHASE II INVESTIGATIONS.

THE SELECTED REMEDY FOR OPERABLE UNIT #3 ADDRESSES A PORTION OF THE PRINCIPAL THREATS REMAINING AT THE SITE BY TREATING HIGHLY TOXIC AND HIGHLY MOBILE LIQUID WASTES, I.E., ACID MINE DISCHARGES, WHICH PRESENT SIGNIFICANT RISK TO THE ENVIRONMENT. TREATMENT OF THE PRINCIPAL THREATS WILL INCLUDE THE USE OF AN INNOVATIVE EMERGING TECHNOLOGY - PASSIVE TREATMENT VIA CONSTRUCTED WETLANDS. THIS TECHNOLOGY HAS BEEN UNDERGOING LABORATORY AND PILOT SCALE TESTING AT THE SITE UNDER THE SUPERFUND INNOVATIVE TECHNOLOGY EVALUATION (SITE) PROGRAM. THE SELECTED REMEDY ADDRESSES LOW LEVEL THREAT WASTES BY RELIABLY MANAGING SOURCE MATERIALS, I.E., MINE TAILINGS AND WASTE ROCK MATERIAL. THE SELECTED REMEDY ADDRESSES CONTAMINATED GROUND WATER.

THE SELECTED REMEDY FOR OPERABLE UNIT #3 AT THE CLEAR CREEK/CENTRAL CITY SITE IS DESCRIBED BELOW BY ITS MAJOR COMPONENTS;

- * CAPPING OR PHYSICAL BARRIERS, AND INSTITUTIONAL CONTROLS FOR SELECT MINE WASTE PILES.
- * AN ALTERNATE DRINKING WATER SUPPLY WHERE REQUIRED.
- * TREATMENT OF THE BURLEIGH AND ARGO TUNNEL DISCHARGES.
- * A GROUND WATER PUMP AND TREAT SYSTEM IN THE IDAHO SPRINGS AREA TO ADDRESS NON-POINT SOURCE METALS LOADING TO SURFACE WATER.
- * REDUCTION IN THE HEAVY METALS LOAD FROM WOODS CREEK.
- * NO ACTION TO CONTROL SURGE EVENTS FROM TUNNELS.

ADDITIONALLY, THIS RECORD OF DECISION AMENDS THE OPERABLE UNIT #1 RECORD OF DECISION BY;

- * USE OF THE INTERIM WAIVER OF APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS FOR THE DISCHARGE FROM THE BIG FIVE TUNNEL.
- * COLLECTING THE DISCHARGES FROM THE GREGORY INCLINE, NATIONAL AND QUARTZ HILL TUNNELS.
- * DELAYING A DECISION ON TREATMENT OF THE GREGORY INCLINE, NATIONAL AND QUARTZ HILL TUNNELS PENDING TREATABILITY STUDIES AND FURTHER DELINEATION OF THE CONTAMINATION SOURCES IN NORTH CLEAR CREEK. THESE STUDIES WILL SERVE AS A NEW OPERABLE UNIT FOR THE SITE, OPERABLE UNIT #4.

ROD DATE: 03/31/88

ROD TYPE: RECORD OF DECISION

ROD ID: 08002571988ROD019

CENTRAL CITY, CLEAR CREEK

ABSTRACT SITE NAME: CENTRAL CITY, CLEAR CREEK

ADDRESS: NEAR TOWN

Record of Decision System (RODS)

CITY & STATE: IDAHO SPRINGS CO 80452

COUNTY: CLEAR CREEK

EPA ID: COD980717557

EPA REGION: 08

NPL STATUS: CURRENTLY ON THE FINAL NPL

ROD TYPE: RECORD OF DECISION

ROD ID: EPA/ROD/R08-88/019

ROD DATE: 03/31/1988

OPERABLE UNIT(S): 02

MEDIA: SURFACE WATER

CONTAMINANT: INORGANICS (METALS)

ABSTRACT:

THE CLEAR CREEK/CENTRAL CITY SITE IS LOCATED APPROXIMATELY 30 MILES WEST OF DENVER IN CLEAR CREEK AND GILPIN COUNTIES, CO. THE SITE CONSISTS PRIMARILY OF ACID MINE DRAINAGES FROM FIVE MINES/TUNNELS AND ADJACENT MILLING AND MINING WASTES. CURRENTLY, ACID MINE DRAINAGE AND RUNON AND RUNOFF FROM THE TAILINGS AND WASTE ROCK PILES HAVE AFFECTED DOWNSTREAM SURFACE WATER QUALITY. IN ADDITION TO THE DIRECT DISCHARGE FROM THE MINE TUNNELS, CONTAMINATED WATER MAY ENTER CLEAR CREEK AND NORTH CLEAR CREEK DURING OVERLAND SHEET FLOW. THIS OCCURS DURING RAPID SNOWMELT AND STORMS. THE RESULTING SURFACE FLOW ACROSS THE TAILINGS AND WASTE ROCK PILES DISSOLVES SOLUBLE MINERALS AND TRANSPORTS PARTICULATE TAILINGS AND WASTE ROCK MATERIALS INTO THE CREEKS. ALL THIS RESULTS IN ELEVATED CREEK ACIDITY AND METAL LOADS. THE INTRODUCTION OF TAILINGS AND WASTE ROCK INTO THE CREEKS COULD ALSO OCCUR DUE TO CATASTROPHIC COLLAPSE OF TAILINGS AND WASTE ROCK PILES DURING A FLASH FLOOD OR AS A RESULT OF UNDERCUTTING OF THE BASE OF THE PILE UNDER ANY FLOW REGIMEN. THE DISCHARGES FROM THE FIVE TUNNELS WERE ADDRESSED IN THE FIRST REMEDIAL ACTION OPERABLE UNIT FOR THIS SITE. THE PRIMARY CONTAMINANTS OF CONCERN FOR HUMAN RECEPTORS IN SURFACE WATER INCLUDE; ALUMINUM, ARSENIC, CADMIUM, CHROMIUM (IV), LEAD, MANGANESE, NICKEL, AND SILVER. FOR AQUATIC RECEPTORS, THE ABOVE LIST EXPANDS TO INCLUDE; COPPER, FLUORIDE, AND ZINC.

THE SELECTED REMEDIAL ACTION FOR THIS SITE INCLUDES; SLOPE STABILIZATION AT THE BIG FIVE TUNNEL AND GREGORY INCLINE; MONITORING OF THE GABION WALL AT THE GREGORY INCLINE; AND RUN-ON CONTROL AT THE ARGO TUNNEL, BIG FIVE TUNNEL, GREGORY INCLINE, NATIONAL TUNNEL, AND THE QUARTZ HILL TUNNEL. THE ESTIMATED PRESENT WORTH COST FOR THIS REMEDIAL ACTION IS \$1,049,600.

REMEDY:

THE CLEAR CREEK/CENTRAL CITY SUPERFUND SITE IS LOCATED APPROXIMATELY 30 MILES WEST OF DENVER, COLORADO AND PRIMARILY CONSISTS OF ACID MINE DISCHARGES AND MILLING AND MINING WASTES FROM FIVE MINES/TUNNELS IN THE CLEAR CREEK AND NORTH CLEAR CREEK DRAINAGES. THESE ARE THE ARGO TUNNEL AND BIG FIVE TUNNEL IN THE CLEAR CREEK DRAINAGE; AND THE GREGORY INCLINE, NATIONAL TUNNEL, AND THE QUARTZ HILL TUNNEL IN THE NORTH CLEAR CREEK DRAINAGE. CONDITIONS AT THE FIVE TUNNELS AND TAILINGS AND WASTE ROCK PILE LOCATIONS POSE POTENTIAL IMPACTS TO HUMAN HEALTH AND THE ENVIRONMENT.

Record of Decision System (RODS)

MORE SPECIFICALLY, POTENTIAL IMPACTS TO HUMAN HEALTH AND THE ENVIRONMENT RESULTING FROM THE ACID MINE DISCHARGES INCLUDE;

- DEGRADATION OF DOWNSTREAM SURFACE WATER QUALITY RESULTING FROM DISSOLVED AND SUSPENDED METALS IN THE DISCHARGES AND RESUSPENDED METAL LADEN SEDIMENTS BELOW THE DISCHARGES; AND
- REDUCTION IN AQUATIC HABITAT QUALITY OR PRODUCTIVITY IN CLEAR CREEK AND NORTH CLEAR CREEK RESULTING FROM CONTAMINATED SURFACE WATER. THESE IMPACTS WERE ADDRESSED IN THE SEPTEMBER 30, 1987 RECORD OF DECISION FOR THE DISCHARGE TREATMENT OPERABLE UNIT OR OPERABLE UNIT NO. ONE FOR THE SITE. OPERABLE UNIT NO. TWO FOR THE SITE, THE TAILINGS AND WASTE ROCK REMEDIATION OPERABLE UNIT, CONSIDERS POTENTIAL IMPACTS TO HUMAN HEALTH AND THE ENVIRONMENT RESULTING FROM;
- DEGRADATION OF DOWNSTREAM SURFACE WATER QUALITY DUE TO COLLAPSE OF THE PILES INTO EITHER CLEAR CREEK OR NORTH CLEAR CREEK;
- DEGRADATION OF DOWNSTREAM SURFACE WATER QUALITY DUE TO RUNON AND RUNOFF FROM THE TAILINGS AND WASTE ROCK PILES; AND
- HUMAN UPTAKE OF METALS FROM THE INHALATION OF DUST OR INGESTION OF MATERIAL FROM THE TAILINGS AND WASTE ROCK PILES.

THESE IMPACTS ARE ADDRESSED IN THIS RECORD OF DECISION.

EPA IS UNDERTAKING AN ADDITIONAL FEASIBILITY STUDY, OPERABLE UNIT NO. THREE OR THE BLOWOUT/DISCHARGE CONTROL OPERABLE UNIT, TO EVALUATE REMEDIAL ACTION ALTERNATIVES FOR REMEDIATING IMPACTS TO HUMAN HEALTH AND THE ENVIRONMENT RESULTING FROM A POTENTIAL BLOWOUT OF THE ARGO TUNNEL. IN ADDITION, THE STATE OF COLORADO HAS SUBMITTED AN APPLICATION TO EPA FOR MONIES TO FUND AN INVESTIGATION TO IDENTIFY OTHER AREAS WITHIN THE MINING DISTRICT WHICH MAY BE SIGNIFICANTLY IMPACTING NORTH CLEAR CREEK AND CLEAR CREEK. THE STATE WILL ALSO INVESTIGATE THE QUALITY OF GROUNDWATER IN THE AREA. DEPENDING UPON THE RESULTS OF THE STATE STUDY, EPA MAY CONSIDER ADDITIONAL OPERABLE UNITS.

THE SELECTED REMEDY FOR OPERABLE UNIT NO. TWO CONSISTS OF SLOPE STABILIZATION AT THE BIG FIVE TUNNEL AND GREGORY INCLINE AND RUNON CONTROL AT ALL FIVE TAILINGS AND WASTE ROCK PILES. NO ACTION WILL BE TAKEN AT THIS TIME TO ADDRESS POTENTIAL IMPACTS FROM INHALATION AND INGESTION OF MATERIAL FROM THE PILES.

THE UNSTABLE SLOPES AT THE BIG FIVE TUNNEL AND GREGORY INCLINE COULD COLLAPSE INTO CLEAR CREEK AND NORTH CLEAR CREEK, RESPECTIVELY, AND THE RESULTING METALS LOADING INTO THE CREEKS WOULD ADVERSELY AFFECT THE WATER QUALITY OF THE CREEKS. SLOPE STABILIZATION AT THE BIG FIVE TUNNEL WILL CONSIST OF REGRADING PORTIONS OF THE PILES TO A STABLE CONFIGURATION AND PLACING LARGE BOULDERS AT THE BASE TO MINIMIZE EROSION. THE CURRENT GABION WALL AT THE GREGORY INCLINE WILL BE MAINTAINED UNTIL MONITORING INDICATES REMEDIATION IS NECESSARY OR UNTIL THE TAILINGS ARE REMOVED FOR REPROCESSING. AT THAT TIME, A PERMANENT SOLUTION WILL BE IMPLEMENTED.

RUNON CONTROL WILL REDUCE THE METALS LOADING TO CLEAR CREEK AND NORTH CLEAR CREEK RESULTING IN AN IMPROVEMENT OF STREAM WATER QUALITY. RUNON CONTROL AT ALL FIVE LOCATIONS WILL CONSIST OF INSTALLING DIVERSION DITCHES ON THE UPGRADIENT SIDES OF THE PILES.

NO ACTION WILL BE TAKEN AT THIS TIME TO ADDRESS POTENTIAL IMPACTS FROM INHALATION AND INGESTION OF MATERIAL FROM THE PILES BECAUSE THE PUBLIC HEALTH EVALUATION FOR THE SITE INDICATED THAT CURRENT OR EPISODIC HUMAN HEALTH AND ENVIRONMENTAL RISKS RESULTING FROM THESE EXPOSURE PATHWAYS WERE MINOR. CURRENT USE CONSISTS OF PERIODIC VISITS TO THE SITES BY LOCAL RESIDENTS AND VISITORS. THE PUBLIC HEALTH EVALUATION INDICATED, HOWEVER, THAT FOR A POTENTIAL FUTURE RESIDENTIAL SCENARIO, RISKS RESULTING FROM

Record of Decision System (RODS)

THE INHALATION AND INGESTION EXPOSURE PATHWAYS ARE OF SOME CONCERN. THEREFORE, EPA WILL EVALUATE THIS NO ACTION DECISION WHEN THE FINAL REMEDY IS SELECTED FOR THE SITE. EPA, IN COORDINATION WITH THE STATE OF COLORADO AND LOCAL OFFICIALS, WILL EVALUATE THE USE OF INSTITUTIONAL MEASURES WHICH WOULD CONTROL ANY HUMAN HEALTH OR ENVIRONMENTAL THREAT THAT COULD BE CREATED BY FUTURE DEVELOPMENT UPON THESE TAILINGS AND WASTE ROCK PILES AND ANY OTHER PILES WHICH THE STATE IDENTIFIES IN ITS STUDY. IN ADDITION, PURSUANT TO SARA SECTION 121(C), EPA WILL REVIEW NO LESS THAN EVERY FIVE YEARS ALL PROPERTIES WHERE HAZARDOUS SUBSTANCES CONTINUE TO REMAIN ONSITE AND, IF NECESSARY, WILL RECONSIDER THIS NO ACTION DECISION.

ESTIMATED COSTS FOR SLOPE STABILIZATION AT THE BIG FIVE TUNNEL AND GREGORY INCLINE AND RUNON CONTROL AT ALL FIVE SITES IS APPROXIMATELY \$1.0 MILLION.

THE SELECTED REMEDY FOR OPERABLE UNIT NO. TWO HAS BEEN CHOSEN TO MITIGATE AND MINIMIZE POTENTIAL IMPACTS RESULTING FROM THE TAILINGS AND WASTE ROCK PILES AND TO PROTECT HUMAN HEALTH AND THE ENVIRONMENT. THE SELECTED REMEDY FOR OPERABLE UNIT NO. TWO IS AN INTERIM REMEDY BECAUSE THE NET BENEFICIAL IMPACT TO CLEAR CREEK AND NORTH CLEAR CREEK WILL NOT BE REALIZED UNTIL THE COMPLETION OF REMEDIAL ACTIONS FOR THE OTHER OPERABLE UNITS. THE SELECTED REMEDY THEREFORE REQUIRES THE EXERCISE OF THE "INTERIM REMEDY" WAIVER (SARA SECTION 121(D)(4)(A)) FROM CONTAMINANT-SPECIFIC ARARS LISTED IN THE FEASIBILITY STUDY. THE INTERIM REMEDY WAIVER ALLOWS FOR THE SELECTION OF A REMEDIAL ACTION THAT DOES NOT ATTAIN ARARS IF "THE REMEDIAL ACTION SELECTED IS ONLY PART OF A TOTAL REMEDIATION ACTION THAT WILL ATTAIN SUCH LEVEL OR STANDARD OF CONTROL WHEN COMPLETED.". THE INTERIM REMEDY IS CONSISTENT WITH THE FINAL SITE REMEDY. LOCATION- AND ACTION-SPECIFIC ARARS WILL BE MET.

ROD DATE: 09/30/87

ROD TYPE: RECORD OF DECISION

ROD ID: 08002571987ROD016

CENTRAL CITY, CLEAR CREEK

ABSTRACT SITE NAME: CENTRAL CITY, CLEAR CREEK

ADDRESS: NEAR TOWN

CITY & STATE: IDAHO SPRINGS CO 80452

COUNTY: CLEAR CREEK

EPA ID: COD980717557

EPA REGION: 08

NPL STATUS: CURRENTLY ON THE FINAL NPL

ROD TYPE: RECORD OF DECISION

ROD ID: EPA/ROD/R08-87/016

ROD DATE: 09/30/1987

OPERABLE UNIT(S): 01

MEDIA: GROUNDWATER SEDIMENTS SURFACE WATER

CONTAMINANT: ARSENIC, CHROMIUM, METALS

ABSTRACT:

THE CLEAR CREEK/CENTRAL CITY SITE ENCOMPASSES PORTIONS OF CLEAR CREEK COUNTY AND GILPIN COUNTY IN THE

Record of Decision System (RODS)

COLORADO MINERAL BELTS, CO. MORE SPECIFICALLY, THE FOCUS IS ON FIVE ABANDONED MINES/TUNNELS PROXIMAL TO THE CITIES OF IDAHO SPRINGS, BLACK HAWK AND CENTRAL CITY AND THE INFLUENCE OF ACID MINE DRAINAGE FROM THOSE TUNNELS ON ADJACENT STREAM COURSES. SURFACE WATER CONTAMINATION RESULTS FROM ACID MINE DRAINAGE EMANATING FROM THE FIVE TUNNELS AND FROM SEEPAGE OF GROUND WATER THROUGH TAILINGS PILES BOTH PROXIMAL TO THESE TUNNELS AND ALONG STREAM COURSES. APPROXIMATELY 1,200 LBS PER DAY OF DISSOLVED AND SUSPENDED METAL LOADINGS HAVE RESULTED IN A SIGNIFICANT DEPLETION OF AQUATIC LIFE AND HAVE POTENTIAL IMPACT TO SEDIMENTS AND DOWNSTREAM USERS OF SURFACE AND GROUND WATER. THERE ARE TEN CONTAMINANTS OF CONCERN INCLUDING ALUMINUM, ARSENIC, CADMIUM, CHROMIUM, COPPER, FLUORIDE, LEAD, MANGANESE, NICKEL, SILVER AND ZINC.

THE SELECTED INTERIM REMEDY FOR THIS SITE INCLUDES; CONSTRUCTION OF PASSIVE TREATMENT SYSTEMS TO TREAT MINE TUNNEL DISCHARGE PRIOR TO SURFACE WATER. THIS IS THE PREFERRED ALTERNATIVE AND IS CONTINGENT UPON RESULTS OF ONGOING PILOT PLANT STUDIES. IF WATER QUALITY CONCENTRATIONS CANNOT BE ACHIEVED BY PASSIVE TREATMENT, EITHER A COMBINATION SYSTEM OF PASSIVE AND ACTIVE TREATMENT SYSTEMS WILL BE CONSTRUCTED OR TWO ACTIVE TREATMENT SYSTEMS (CHEMICAL PRECIPITATION OR ELECTROCHEMICAL PRECIPITATION) WILL BE CONSTRUCTED TO TREAT MINE TUNNEL DISCHARGE. THE ESTIMATED CAPITAL COST FOR PASSIVE TREATMENT IS \$1,663,000 WITH ANNUAL O&M OF \$115,000.

REMEDY:

LOW PH MINE TUNNEL DISCHARGE WATER IS ONLY ONE OF SEVERAL SOURCES TO THE DEGRADATION OF WATER QUALITY AND AQUATIC HABITAT AT THE CLEAR CREEK/CENTRAL CITY SITE. DATA GATHERED DURING THE REMEDIAL INVESTIGATION HAS SHOWN THAT;

- RUNOFF FROM TAILINGS AND WASTE ROCK PILES CONTAIN DISSOLVED AND SUSPENDED METALS.
- TAILINGS AND WASTE ROCK PILES ADJACENT TO CLEAR CREEK AND NORTH CLEAR CREEK ARE UNSTABLE AND COULD COLLAPSE INTO THE CREEKS. THESE PILES HAVE THE POTENTIAL TO PRODUCE ACID. WHEN INTRODUCED TO WATER, THE PH WILL RAPIDLY DECREASE AND SIGNIFICANT AMOUNTS OF METALS WILL BE RELEASED TO THE ENVIRONMENT.
- HYDROSTATIC PRESSURE WILL BUILD UP IN THE TUNNELS DUE TO CAVE-INS. AFTER SUFFICIENT PRESSURE HAS BUILT UP, THE TUNNELS WILL BLOW OUT, RELEASING LARGE VOLUMES OF DISSOLVED AND SUSPENDED METALS TO THE CREEKS.
- THE GROUND WATERS IN THE VICINITY OF THE ACID MINE DISCHARGES ARE CONTAMINATED.
- THERE ARE ADDITIONAL SOURCES OF LOW PH MINE TUNNEL DISCHARGES AND TAILINGS UPSTREAM OF THE SITE THAT COULD BE CONTRIBUTING DISSOLVED AND SUSPENDED METALS TO THE STREAMS.

ALL OF THE ABOVE FACTORS CONTRIBUTE TO WATER QUALITY AND AQUATIC HABITAT DEGRADATION AND WILL BE STUDIED IN THE FOLLOWING SUBSEQUENT OPERABLE UNITS;

OPERABLE UNIT NO. TWO - TAILINGS AND WASTE ROCK REMEDIATION
OPERABLE UNIT NO. THREE - SOURCE CONTROL
OPERABLE UNIT NO. FOUR - BLOWOUT CONTROL
OPERABLE UNIT NO. FIVE - REGIONAL GROUND WATER CONTAMINATION
OPERABLE UNIT NO. SIX - UPSTREAM MINE DISCHARGES AND TAILINGS.

THESE OPERABLE UNITS ARE SUBJECT TO CHANGE.

THE SELECTED REMEDY FOR OPERABLE UNIT NO. ONE OF THE CLEAR CREEK/CENTRAL CITY SITE CONSISTS OF TREATMENT TO MEET UPSTREAM WATER QUALITY CONCENTRATION FOR CONTAMINANTS OF CONCERN IDENTIFIED IN THE

Record of Decision System (RODS)

REMEDIAL INVESTIGATION (RI) IN A TREATMENT SYSTEM DISCHARGE LINE. THE UPSTREAM WATER QUALITY CONCENTRATIONS WILL BE USED AS OPERATIONAL STANDARDS FOR THIS INTERIM REMEDY. THE UPSTREAM WATER QUALITY CONCENTRATIONS ("UPSTREAM LEVELS") CONSIST OF THE GEOMETRIC MEAN OF THE SUBSET OF RI SAMPLES TAKEN ON CLEAR CREEK IMMEDIATELY UPSTREAM OF THE DISCHARGE FROM THE BIG FIVE TUNNEL AND ON NORTH CLEAR CREEK IMMEDIATELY UPSTREAM OF THE DISCHARGE FROM THE GREGORY INCLINE. THESE UPSTREAM LEVELS ARE NOT TO BE CONSIDERED AS FINAL APPLICABLE AND/OR RELEVANT AND APPROPRIATE REQUIREMENTS FOR THE FINAL SITE REMEDY.

BECAUSE A DETERMINATION OF THE FINAL REMEDY IS CONTINGENT UPON THE COMPLETION OF THE OTHER OPERABLE UNITS LISTED ABOVE, THE SELECTED REMEDY IS AN INTERIM REMEDY. THIS INTERIM REMEDY WILL CONSIST OF CONSTRUCTION OF PASSIVE TREATMENT SYSTEMS TO TREAT THE LOW PH MINE TUNNEL DISCHARGE FROM EACH TUNNEL PRIOR TO DISCHARGE TO SURFACE WATERS. THIS IS THE PREFERRED ALTERNATIVE AND IS CONTINGENT UPON THE RESULTS OF ONGOING PILOT PLANT STUDIES DEMONSTRATING THAT UPSTREAM LEVELS CAN BE MET BY A PASSIVE TREATMENT SYSTEM. IF THE UPSTREAM LEVELS CANNOT BE MET BY PASSIVE TREATMENT, THEN EITHER OF THE FOLLOWING TREATMENT SYSTEMS WILL BE BUILT;

- A COMBINATION SYSTEM CONSISTING OF PASSIVE AND ACTIVE TREATMENT SYSTEMS WILL BE CONSTRUCTED. A PHASED APPROACH TO CONSTRUCTION WILL BE UTILIZED.
- TWO ACTIVE TREATMENT SYSTEMS (CHEMICAL PRECIPITATION OR ELECTROCHEMICAL PRECIPITATION) WILL BE CONSTRUCTED TO TREAT MINE TUNNEL DRAINAGE PRIOR TO DISCHARGE.

THESE SYSTEMS WILL BE DESIGNED TO REDUCE THE MOBILITY, TOXICITY OR VOLUME OF DISSOLVED AND SUSPENDED METALS IN THE MINE DRAINAGE, INCREASE PH, AND MEET UPSTREAM LEVELS. UPSTREAM LEVELS ARE LISTED IN THE SELECTED REMEDY SECTION.

A PILOT-TREATMENT SYSTEM FOR PASSIVE TREATMENT HAS BEEN CONSTRUCTED AT THE BIG FIVE TUNNEL. THE PILOT PLANT HAS BEEN CONSTRUCTED TO DETERMINE THE ABILITY OF PASSIVE-TREATMENT EFFLUENT TO MEET UPSTREAM LEVELS FOR THE DISCHARGE FROM A TREATMENT FACILITY AT THE END OF THE FACILITY DISCHARGE PIPE. THE PILOT PLANT WILL ALSO BE OPERATED TO GATHER DESIGN DATA FOR SIZING VOLUME REQUIREMENTS, DETERMINE OPTIMUM DISSOLVED AND SUSPENDED METAL REMOVAL FOR VARIOUS ORGANIC AND VEGETATION TYPES AND CONFIRM REMOVAL EFFICIENCIES. RESULTS OF STUDIES AT THE PILOT PLANT WILL PROVIDE DATA REQUIRED IN ORDER TO DETERMINE FINAL DESIGN CRITERIA. SITING STUDIES WILL EVALUATE ALTERNATE TREATMENT SITE LOCATIONS.

THE REMEDY INCLUDES THE FOLLOWING OPERATION AND MAINTENANCE ACTIVITIES;

PASSIVE TREATMENT

- ANNUAL COLLECTION OF AND LABORATORY ANALYSES OF SOILS AND VEGETATION TO MEASURE HEAVY METAL ACCUMULATION.
- ANNUAL MAINTENANCE OF VEGETATION.
- REPLACEMENT OF WETLAND MATERIALS AND DISPOSAL AND TREATMENT OF METAL SATURATED ORGANIC MATERIALS AND PLANTS EVERY 5 TO 10 YEARS.
- MAINTENANCE OF PIPELINES CARRYING LOW PH MINE TUNNEL DISCHARGE WATER FROM TUNNELS TO PASSIVE TREATMENT SYSTEMS. ACTIVE TREATMENT
- LABOR COSTS FOR OPERATION AND MAINTENANCE OF THE FACILITY.
- CHEMICAL COSTS AND POWER COSTS FOR OPERATION AND MAINTENANCE OF THE FACILITY.
- SLUDGE TREATMENT AND DISPOSAL COSTS.
- MAINTENANCE OF PIPELINES CARRYING LOW PH MINE TUNNEL DISCHARGE WATER FROM TUNNELS TO TREATMENT

Record of Decision System (RODS)

FACILITIES. PASSIVE TREATMENT AND ACTIVE TREATMENT COMBINATION

- THE COMBINATION OF COSTS LISTED ABOVE UNDER PASSIVE TREATMENT AND ACTIVE TREATMENT.

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Historical Solid Waste Landfills (HISTSWLF)

SITE INFORMATION

UNIQUE ID: 00070-0001119

NAME: EQUITY GOLD MCCLELLAND TUNNEL

ADDRESS: ADDRESS NOT REPORTED

IDAHO SPRINGS, CO

DIRECTIONS: NOT REPORTED

COUNTY: CLEAR CREEK

SITE DETAILS

AGENCY ID: NOT REPORTED

DETAIL1:

7A 2PONDS 8D CO-0038148 10F MINE DRAIN. HAZARD TYPE: OTHER. IMPACT: SW.; TRS- T03 R73 S29; ACRES- <1

DETAIL2:

TYPE- IMPOUNDMENT; FILL- LIQUIDS. ; OPER/OWNR/OTHR- // J. TATUM LOUISVILLE,, ,

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Historical Solid Waste Landfills (HISTSWLF)

SITE INFORMATION

UNIQUE ID: 00070-0001117

NAME: JACK PINE MINING BLACK E.MINE

ADDRESS: ADDRESS NOT REPORTED
IDAHO SPRINGS, CO

DIRECTIONS: NOT REPORTED

COUNTY: CLEAR CREEK

SITE DETAILS

AGENCY ID: NOT REPORTED

DETAIL1:

7A #PONDS? 8D CO-0028797 10F TAILINGS. HAZARD TYPE: OTHER. IMPACT: SW.; TRS- T04 R73 S03; ACRES- <1

DETAIL2:

TYPE- IMPOUNDMENT; FILL- LIQUIDS. ; OPER/OWNR/OTHR- // D.WATROUS IDAHO SPGS, ,

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Historical Solid Waste Landfills (HISTSWLF)

SITE INFORMATION

UNIQUE ID: 00070-0001118

NAME: JUMBO WILDCAT IDAHO SPRINGS

ADDRESS: ADDRESS NOT REPORTED

IDAHO SPRINGS, CO

DIRECTIONS: NOT REPORTED

COUNTY: CLEAR CREEK

SITE DETAILS

AGENCY ID: NOT REPORTED

DETAIL1:

7A 1POND 8D CO0037648 10F DRAINAGE. HAZARD TYPE: OTHER. IMPACT: SW.; TRS- T03 R73 S16; ACRES- <1

DETAIL2:

TYPE- IMPOUNDMENT; FILL- LIQUIDS. ; OPER/OWNR/OTHR- // KEVIN BETTALE, ,

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Historical Solid Waste Landfills (HISTSWLF)

SITE INFORMATION

UNIQUE ID: 00070-0001120

NAME: EQUITY GOLD STANLEY MINE

ADDRESS: ADDRESS NOT REPORTED
IDAHO SPRINGS, CO

DIRECTIONS: NOT REPORTED

COUNTY: CLEAR CREEK

SITE DETAILS

AGENCY ID: NOT REPORTED

DETAIL1:

7A 1POND, 8D-CO-0037559 10F MINE WATER. HAZARD TYPE: OTHER. IMPACT: SW.; TRS- T03 R73 S; ACRES- <1

DETAIL2:

TYPE- IMPOUNDMENT; FILL- LIQUIDS. ; OPER/OWNR/OTHR- // J.TATUM BOULER, CO, ,

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Historical Solid Waste Landfills (HISTSWLF)

SITE INFORMATION

UNIQUE ID: 00070-0001121

NAME: CONCORD MINERALS HIDDEN V.MIL

ADDRESS: ADDRESS NOT REPORTED

IDAHO SPRINGS, CO

DIRECTIONS: NOT REPORTED

COUNTY: CLEAR CREEK

SITE DETAILS

AGENCY ID: NOT REPORTED

DETAIL1:

7A 1POND ,D CO-0036951 10F TAILINGS. HAZARD TYPE: OTHER. IMPACT: SW.; TRS- T03 R72 S32; ACRES- <1

DETAIL2:

TYPE- IMPOUNDMENT; FILL- LIQUIDS. ; OPER/OWNR/OTHR- // TOM COCHRAN IDAHO SP, ,

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Historical Solid Waste Landfills (HISTSWLF)

SITE INFORMATION

UNIQUE ID: 00070-0001122

NAME: BLACK EAGLE MILL

ADDRESS: ADDRESS NOT REPORTED
IDAHO SPRINGS, CO

DIRECTIONS: NOT REPORTED

COUNTY: CLEAR CREEK

SITE DETAILS

AGENCY ID: NOT REPORTED

DETAIL1:

#6,7,8 UNKNOWN-CONTRACT MLRD. ; TRS- T04S R73W S09

DETAIL2:

TYPE- MILL WASTE; FILL- TAILINGS. ; OPER/OWNR/OTHR- // SILVERGLADE MINING, ,

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Historical Solid Waste Landfills (HISTSWLF)

SITE INFORMATION

UNIQUE ID: 00070-0001123

NAME: OPEN PIT WITH FILTER OLD

ADDRESS: ADDRESS NOT REPORTED
IDAHO SPRINGS, CO

DIRECTIONS: NOT REPORTED

COUNTY: CLEAR CREEK

SITE DETAILS

AGENCY ID: NOT REPORTED

DETAIL1:

; TRS- T04S R73W S02

DETAIL2:

TYPE- LANDFILL; FILL- REFUSE. ; OPER/OWNER/OTHR- , ,

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Leaking Underground Storage Tanks Trust Fund Sites (LUSTTRUST)

FACILITY INFORMATION

UNIQUE ID: 00023-0000066

AGENCY ID: NOT REPORTED

NAME: IDAHO SPRINGS #1

ADDRESS: IDAHO SPRINGS #1

IDAHO SPRINGS, CO 80000

COUNTY: CLEAR CREEK

COMMENTS: FROM AN OLD CDPHE LIST OF LOCATIONS WHERE TANK LEAKS WERE SUSPECTED AND LUST TRUST FUNDS WERE USED IN AN EFFORT TO IDENTIFY THE SOURCE. OFTEN, THE SOURCE WAS FOUND NEARBY AND WAS ENTERED IN THE LUST DATABASE (NOW COSTIS).

THIS LISTING NOT ENTERED INTO COSTIS BACK WHEN CDPHE TRANSFERRED RESPONSIBILITY FOR TANK LEAKS TO OPS. FEW PEOPLE AT OPS KNOW OF THIS OLD CDPHE LIST, AND ANY ASSOCIATED FILES ARE THOUGHT TO HAVE BEEN DISPOSED OF OR MISPLACED.

COSTIS LINK: NOT REPORTED

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Spills Listing (SPILLS)

INCIDENT INFORMATION

CASE NUMBER: 2001-322 NRC NUMBER: 575707

SPILL DATE: 8/7/2001

SPILL LOCATION: I-70 WESTBOUND

SPILL CITY/STATE/ZIP: IDAHO SPRINGS, CO

SPILL COUNTY: CLEAR CREEK

RESPONSIBLE PARTY

NAME: ALL CITY TRUCKING

ADDRESS: 837 SOUTH KUNER ROAD
BRIGHTON, CO 80601

COUNTY: ADAMS

CONTACT: NOT REPORTED

PHONE: 720-985-8985

INCIDENT DETAILS

SOURCE: HIGHWAY/ROADWAY

SOURCE TYPE: TRUCK ACCIDENT

MEDIUM: WATER

WATERWAY: CLEAR CREEK

CAUSE: T

MATERIAL TYPE: OIL

MATERIAL DESCRIPTION:

DIESEL

ASPHALT

HYDRAULIC & MOTOR OILS

MATERIAL QUANTITY:

100 G

15 T

18 G

WATER QUANTITY:

100 G

CAUSE INFORMATION:

TRUCK HAULING ASPHALT TRAVELED OFF I-70 INTO CLEAR CREEK SPILLING VARIOUS AMOUNTS OF DIESEL, OIL, AND ANTI-FREEZE.

ACTION:

BOOMS APPLIED TO CREEK. MOST OF THE PRODUCTS CAUGHT.

RESPONSE COMMENTS:

CUSTOM ENVIRONMENTAL HIRED TO DO CLEAN UP OF AREA.

COMMENTS:

ANOTHER NRC REPORT ISSUED ON THIS INCIDENT IS #575713

ADDITIONAL COMMENTS:

ADDITIONAL NOTIFICATION FROM CSP DISPATCH (KIMI) AT 2350 8/7/01. THE FOLLOWING DOWNSTREAM WATER USERS NOTIFIED OR NOTIFICATION ATTEMPTED BY CDPHE/EMP DUTY OFFICER: CITY OF BROOMFIELD - (303)466-3104 SPOKE WITH BILL. THEY WILL NOTIFY ""VAN"" THAT H

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Spills Listing (SPILLS)

INCIDENT INFORMATION

CASE NUMBER: **2002-410** NRC NUMBER: **0**

SPILL DATE: **6/24/2002**

SPILL LOCATION: **I-70 WB**

SPILL CITY/STATE/ZIP: **IDAHO SPRINGS, CO**

SPILL COUNTY: **CLEAR CREEK**

RESPONSIBLE PARTY

NAME: **7-24 AIRX**

ADDRESS: **5355 TAMARUS**

LAS VEGAS, NV 89119

COUNTY: **NOT REPORTED**

CONTACT: **NICK KORPAL**

PHONE: **800-216-3876**

INCIDENT DETAILS

SOURCE: **HIGHWAY/ROADWAY**

SOURCE TYPE: **TRUCK/TRAILER**

MEDIUM: **LAND**

WATERWAY: **NOT REPORTED**

CAUSE: **TRANSPORTATION ACCIDENT**

MATERIAL TYPE: **OIL**

MATERIAL DESCRIPTION:
DIESEL

MATERIAL QUANTITY:
150 G

WATER QUANTITY:
NOT REPORTED

CAUSE INFORMATION:

**TRUCK LOST CONTROL ON I-70 WB, ALLOWING FOR TRAILER TO JACKKNIFE AND PUNCTURE RIGHT SIDE SADDLE TANK.
RELEASE OF 150 GALLONS OF DIESEL WAS RESULT.**

ACTION:

RM CAT NOTIFIED FOR CLEAN UP OF AREA.

RESPONSE COMMENTS:

NOT REPORTED

COMMENTS:

NOT REPORTED

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Spills Listing (SPILLS)

INCIDENT INFORMATION

CASE NUMBER: 2004-241 NRC NUMBER: 720068

SPILL DATE: 4/25/2004

SPILL LOCATION: I-70

SPILL CITY/STATE/ZIP: IDAHO SPRINGS, CO

SPILL COUNTY: CLEAR CREEK

RESPONSIBLE PARTY

NAME: IVAN HARMS

ADDRESS: 620 E. TOPAZ AVE

GRANBY, CO 80446

COUNTY: NOT REPORTED

CONTACT: NOT REPORTED

PHONE: 970-887-3825

INCIDENT DETAILS

SOURCE: HIGHWAY/ROADWAY

SOURCE TYPE: TRUCK/TRAILER

MEDIUM: LAND

WATERWAY: NOT REPORTED

CAUSE: TRANSPORTATION ACCIDENT

MATERIAL TYPE: OIL

MATERIAL DESCRIPTION:
DIESEL

MATERIAL QUANTITY:
80 G

WATER QUANTITY:
NOT REPORTED

CAUSE INFORMATION:

A TRUCK COLLIDED WITH THE CENTER MEDIAN AND OVERTURNED. THIS RESULTED IN THE PUNCTURING OF THE LEFT SIDE SADDLE TANK AND THE RELEASE OF DIESEL ONTO ROADWAY.

ACTION:

CUSTOM ENVIRONMENTAL WAS NOTIFIED FOR CLEANUP. CUSTOM ENV. APPLIED ABSORBENT TO THE ROADWAY TO RECOVER RELEASED DIESEL.

RESPONSE COMMENTS:

NOT REPORTED

COMMENTS:

NO WATEWAYS WERE IMPACTED.

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Spills Listing (SPILLS)

INCIDENT INFORMATION

CASE NUMBER: 2006-104 NRC NUMBER: 787022

SPILL DATE: 1/31/2006

SPILL LOCATION: EB I-70

SPILL CITY/STATE/ZIP: IDAHO SPRINGS, CO

SPILL COUNTY: CLEAR CREEK

RESPONSIBLE PARTY

NAME: STURGEON ELECTRIC

ADDRESS: 12150 E 112 AVE

HENDERSON, CO 80640

COUNTY: NOT REPORTED

CONTACT: ROBERT HENSLEY

PHONE: 303-239-4546

INCIDENT DETAILS

SOURCE: HIGHWAY/ROADWAY

SOURCE TYPE: TRUCK/TRAILER

MEDIUM: LAND

WATERWAY: NOT REPORTED

CAUSE: ERROR OPERATOR

MATERIAL TYPE: OIL

MATERIAL DESCRIPTION:
DIESEL

MATERIAL QUANTITY:
90 G

WATER QUANTITY:
NOT REPORTED

CAUSE INFORMATION:

A COMMERCIAL TRUCK LOST CONTROL DUE TO UNKNOWN CAUSES AND ROLLED ONTO ITS RIGHT SIDE RELEASING 90 GALLONS OF DIESEL TO THE MEDIAN AND HWY. THE SPILL WAS 300 FEET FROM CLEAR CREEK, BUT NO SURFACE WATER WAS IMPACTED.

ACTION:

ABSORBENT USED WHERE DIESEL POOLED. RM CAT CONTRACTED FOR CLEANUP.

RESPONSE COMMENTS:

NOT REPORTED

COMMENTS:

NOT REPORTED

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Spills Listing (SPILLS)

INCIDENT INFORMATION

CASE NUMBER: **2006-765** NRC NUMBER: **808446**
SPILL DATE: **8/18/2006**
SPILL LOCATION: **I-70**
SPILL CITY/STATE/ZIP: **IDAHO SPRINGS, CO**
SPILL COUNTY: **CLEAR CREEK**

RESPONSIBLE PARTY

NAME: **CHRIS BROWN**
ADDRESS: **PO BOX 1526**
DILLON, CO 80435
COUNTY: **NOT REPORTED**
CONTACT: **DILLON TOWING**
PHONE: **970-468-2907**

INCIDENT DETAILS

SOURCE: **HIGHWAY/ROADWAY**
SOURCE TYPE: **MOTOR VEHICLE**
MEDIUM: **AIR**
WATERWAY: **CLEAR CREEK**
CAUSE: **TRANSPORTATION ACCIDENT**
MATERIAL TYPE: **OTHER**

MATERIAL DESCRIPTION:	MATERIAL QUANTITY:	WATER QUANTITY:
PARTICULATE PLASTIC PIPING	NOT REPORTED	NOT REPORTED

CAUSE INFORMATION:

CALLER STATES THAT A PLASTIC ASH PARTICULATE HAS DISCHARGED INTO CLEAR CREEK. A TOWING TRACTOR/TRAILER COMBO HAD A LOAD OF EBS CELL CORE PLASTIC PIPING. WHILE THE MATERIAL WAS BEING TOWED IT HAD A WHEEL BRAKE CATCH ON FIRE WHICH LIT THE PLASTIC PIPE.

ACTION:

THE FIRE DEPT EXTINGUISHED THE FIRE AND, WHILE CARRYING THE FOAM FROM THE EXTINGUISHING MATERIAL DOWNHILL, A SMALL AMOUNT OF RESIDUAL PLASTIC ASH PARTICULATE, FLOATED DOWN TO THE SOIL AND CREEK.

RESPONSE COMMENTS:

NOT REPORTED

COMMENTS:

NOT REPORTED

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Spills Listing (SPILLS)

INCIDENT INFORMATION

CASE NUMBER: 2007-0593 NRC NUMBER: 839584

SPILL DATE: 6/16/2007

SPILL LOCATION: I-70 WEST BOUND

SPILL CITY/STATE/ZIP: IDAHO SPRINGS, CO

SPILL COUNTY: CLEAR CREEK

RESPONSIBLE PARTY

NAME: JEFF DIGBY

ADDRESS: 1280 W 64TH AVE

DENVER, CO

COUNTY: NOT REPORTED

CONTACT: VOYAGER EXPRESS

PHONE: 303-412-1700

INCIDENT DETAILS

SOURCE: HIGHWAY/ROADWAY

SOURCE TYPE: MOTOR VEHICLE

MEDIUM: LAND

WATERWAY: NOT REPORTED

CAUSE: TRANSPORTATION ACCIDENT

MATERIAL TYPE: OIL

MATERIAL DESCRIPTION:
DIESEL

MATERIAL QUANTITY:
40 G

WATER QUANTITY:
NOT REPORTED

CAUSE INFORMATION:

CALLER STATED THERE WAS A RELEASE OF MATERIALS FROM THE SADDLE TANK ON A TRACTOR TRAILER TRUCK DUE TO A VEHICLE ACCIDENT. SPILLED DIESEL, WENT INTO CENTER MEDIAL SOIL, NO WATERWAYS WERE IMPACTED.

ACTION:

CLEANUP UNDERWAY BY RMCAT ENVIRONMENTAL.

RESPONSE COMMENTS:

NOT REPORTED

COMMENTS:

NOT REPORTED

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Spills Listing (SPILLS)

INCIDENT INFORMATION

CASE NUMBER: **2009-0411** NRC NUMBER: **916971**

SPILL DATE: **9/4/2009**

SPILL LOCATION: **I-70**

SPILL CITY/STATE/ZIP: **IDAHO SPRINGS, CO**

SPILL COUNTY: **CLEAR CREEK**

RESPONSIBLE PARTY

NAME: **WESTERN EXPRESS**

ADDRESS: **7135 CENTENNIAL PLACE**

NASHVILLE, TN 37209

COUNTY: **NOT REPORTED**

CONTACT: **DEREK MILLER**

PHONE: **812-454-6377**

INCIDENT DETAILS

SOURCE: **HIGHWAY/ROADWAY**

SOURCE TYPE: **MOTOR VEHICLE**

MEDIUM: **WATER**

WATERWAY: **CLEAR CREEK**

CAUSE: **TRANSPORTATION ACCIDENT**

MATERIAL TYPE: **OIL**

MATERIAL DESCRIPTION:
DIESEL

MATERIAL QUANTITY:
150 G

WATER QUANTITY:
50 G

CAUSE INFORMATION:

A TRUCK RAN OFF THE HIGHWAY AND LANDED WITHIN THE CLEAR CREEK.

ACTION:

CLEAR CREEK COUNTY DISPATCH MADE DOWNSTREAM WATER NOTIFICATIONS. BOOMS APPLIED TO AREA.

RESPONSE COMMENTS:

NOT REPORTED

COMMENTS:

CDOT-ANDY FLURKEY

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Spills Listing (SPILLS)

INCIDENT INFORMATION

CASE NUMBER: 2001-476 NRC NUMBER: 585544
SPILL DATE: 11/9/2001
SPILL LOCATION: I-70 WB
SPILL CITY/STATE/ZIP: IDAHO SPRINGS, CO
SPILL COUNTY: CLEAR CREEK

RESPONSIBLE PARTY

NAME: IOWA TANKLINE
ADDRESS: 3975 56TH AVE.
 COMMERCE CITY, CO 80022
COUNTY: NOT REPORTED
CONTACT: NOT REPORTED
PHONE: 303-292-2288

INCIDENT DETAILS

SOURCE: HIGHWAY/ROADWAY
SOURCE TYPE: TRUCK TANKER
MEDIUM: WATER
WATERWAY: CLEAR CREEK
CAUSE: T
MATERIAL TYPE: OIL

MATERIAL DESCRIPTION:	MATERIAL QUANTITY:	WATER QUANTITY:
UNLEADED	7000 G	5500 G

CAUSE INFORMATION:

SEMI TRUCK HAULING 8300 GALLONS OF UNLEADED GASOLINE ROLLED OVER ON I-70 WB. ACCIDENT CAUSED A PUNCTURE TO THE TANK TRAILER.

ACTION:

AREA HAS BEEN ISOLATED. BOOMS APPLIED TO RIVER AND ABSORBENTS USED TO CLEAN UP FUEL SPILLED ONTO HIGHWAY. CSP HAZ MAT AND RM CAT ON SCENE TO PROVIDE CLEANUP.

RESPONSE COMMENTS:

EPA IS RESPONDING TO INCIDENT. DEPT. OF NATURAL RESOURCES(MARK LAMB) HAS ALSO BEEN NOTIFIED OF THE SITUATION.

COMMENTS:

ALL DOWNSTREAM USERS HAVE BEEN NOTIFIED AND ALERTED OF SITUATION.

ADDITIONAL COMMENTS:

DRIVER OF TANKER WAS TAKEN TO ST. ANTHONY HOSPITAL FOR TREATMENT OF INJURIES SUFFERED IN THE ACCIDENT.

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Spills Listing (SPILLS)

INCIDENT INFORMATION

CASE NUMBER: **CO99-188** NRC NUMBER: **0**
SPILL DATE: **5/29/1999**
SPILL LOCATION: **IDAHO SPRINGS WASTE WATER TREATMENT PLANT**
SPILL CITY/STATE/ZIP: **IDAHO SPRINGS, CO**
SPILL COUNTY: **CLEAR CREEK**

RESPONSIBLE PARTY

NAME: **IDAHO SPRINGS WASTE WATER PLNT**
ADDRESS: **STREET NOT REPORTED**
IDAHO SPRINGS, CO
COUNTY: **CLEAR CREEK**
CONTACT: **ROBERT DEY**
PHONE: **303-944-8294**

INCIDENT DETAILS

SOURCE: **FIXED FACILITY**
SOURCE TYPE: **TREATMENT PLANT**
MEDIUM: **WATER**
WATERWAY: **CLEAR CREEK**
CAUSE: **F**
MATERIAL TYPE: **SANITARY SEWER OVERFLOW**

MATERIAL DESCRIPTION: SEWAGE, RAW	MATERIAL QUANTITY: NOT REPORTED	WATER QUANTITY: NOT REPORTED
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CAUSE INFORMATION:

POWER FAILURE

ACTION:

5/29/99 2225 HRS-ROBERT DEY CALLED TO REPORT THAT POWER HAD BEEN RESTORED TO THE PLANT AS OF 2130 HRS & THE OVERFLOW WAS UNDER CONTROL.

RESPONSE COMMENTS:

NOT REPORTED

COMMENTS:

DUE TO A POWER OUTAGE, PUMPS AT THE PLANT FAILED TO OPERATE ALLOWING RAW SEWAGE TO OVERFLOW INTO CLE

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Spills Listing (SPILLS)

INCIDENT INFORMATION

CASE NUMBER: 2005-399 NRC NUMBER: 0
SPILL DATE: 5/13/2005
SPILL LOCATION: IDAHO SPRINGS WASTEWATER TREATMENT PLANT
SPILL CITY/STATE/ZIP: IDAHO SPRINGS, CO
SPILL COUNTY: CLEAR CREEK

RESPONSIBLE PARTY

NAME: ECO RESOURCES, INC.
ADDRESS: 6050 W. 54TH AVENUE
 ARVADA, CO 80002
COUNTY: NOT REPORTED
CONTACT: TERRY MIERS
PHONE: 303-307-3200

INCIDENT DETAILS

SOURCE: FIXED FACILITY
SOURCE TYPE: UPSET WASTEWATER TREATMENT PLANT
MEDIUM: WATER AND LAND
WATERWAY: CLEAR CREEK
CAUSE: FAILURE EQUIPMENT
MATERIAL TYPE: SANITARY SEWER OVERFLOW

MATERIAL DESCRIPTION: EFFLUENT	MATERIAL QUANTITY: 6000 G	WATER QUANTITY: 6000 G
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CAUSE INFORMATION:

FLOW METER BURST DUE TO HIGH WATER PRESSURE. CHLORINE ROOM FILLED WITH A COUPLE FEET OF WATER.

ACTION:

UPON PLANT FILLING, MANUAL DECANT WAS ENACTED. DURING FIRST DISCHARGE A VISUAL IMPACT FROM CHLORINE WAS NOTED IN CREEK NO FURTHER IMPACT NOTED DURING ADDITIONAL MANUAL DECANTS. REPAIRS BEING MADE TO VALVE, NOTED DECANTERS MAY NOT BE SEALING PROPERLY.

RESPONSE COMMENTS:

NOT REPORTED

COMMENTS:

**OTHER PROBLEMS NOTED: THE BYPASS VALVE WAS NOT CLOSING AND WAS DEADHEADED. THE MAIN VALVE TO THE PLA
ADDITIONAL COMMENTS:**

**PER VOICEMAIL FROM TERRY MEIRS AND FOLLOW BY TOM ARMITAGE THE AMOUNT RELEASED IN THE MANUAL
DISCHARGE IS CHANGED FROM 20000 GALLONS TO 6000 GALLONS AND THE REPORT HAS BEEN CHANGED TO REFLECT AN
UPSET WASTEWATER TREATMENT PLANT INSTEAD OF A SANITARY SEWE**

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Emergency Response Notification System (ERNSCO)

INCIDENT INFORMATION

GSID#: 2135250854
NRC ID#: 575713
INCIDENT LOCATION: WEST BOUND ON ROUTE 6
INCIDENT ADDRESS: STATE ROUTE 6
INCIDENT CITY: IDAHO SPRINGS
INCIDENT STATE: CO
INCIDENT ZIP: NOT REPORTED
INCIDENT COUNTY: CLEAR CREEK

RESPONSIBLE PARTY

COMPANY: ALL CITY TRUCKING
ADDRESS: 837 SOUTH KUNER ROAD
CITY: BLIGHTON
STATE: CO
ZIP: 80601

INCIDENT DETAILS

INCIDENT DATE: 07-AUG-01
INCIDENT CAUSE: TRANSPORT ACCIDENT
MATERIAL REACHED WATER: NO
REMEDIAL ACTION: PLACED BOOM BUT A LOT OF DIESEL WENT DOWN STREAM TOWARDS GOLDEN CO.
INCIDENT DESCRIPTION: {NO_MEMO_FILE_OPEN}
MATERIAL RELEASED/AMOUNT: ASPHALT/15 TON(S)
OTHER MATERIAL RELEASED/AMOUNT: HY/8 GA

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Emergency Response Notification System (ERNSCO)

INCIDENT INFORMATION

GSID#: 1368208180

NRC ID#: 575707

INCIDENT LOCATION: NOT REPORTED

INCIDENT ADDRESS: INTERSTATE 70

INCIDENT CITY: IDAHO SPRINGS

INCIDENT STATE: CO

INCIDENT ZIP: NOT REPORTED

INCIDENT COUNTY: CLEAR CREEK

RESPONSIBLE PARTY

COMPANY: UNKNOWN

ADDRESS: NOT REPORTED

CITY: NOT REPORTED

STATE: XX

ZIP: NOT REPORTED

INCIDENT DETAILS

INCIDENT DATE: 07-AUG-01

INCIDENT CAUSE: UNKNOWN

MATERIAL REACHED WATER: YES

REMEDIAL ACTION: STATE PATROL HAZMAT EN ROUTE

INCIDENT DESCRIPTION: {NO_MEMO_FILE_OPEN}

MATERIAL RELEASED/AMOUNT: ASPHALT/ UNKNOWN AMOUNT

OTHER MATERIAL RELEASED/AMOUNT: NOT REPORTED/NOT REPORTED NOT REPORTED

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Emergency Response Notification System (ERNSCO)

INCIDENT INFORMATION

GSID#: 331934020

NRC ID#: 819210

INCIDENT LOCATION: I-70 WEST BOUND AT THE BOTTOM OF EXIT 244 US HWY 6

INCIDENT ADDRESS: I-70 WEST BOUND AT THE BOTTOM OF EXIT 24

INCIDENT CITY: IDAHO SPRINGS

INCIDENT STATE: CO

INCIDENT ZIP: NOT REPORTED

INCIDENT COUNTY: CLEAR CREEK

RESPONSIBLE PARTY

COMPANY: SAFEWAY TRUCKING

ADDRESS: NOT REPORTED

CITY: HENDERSON

STATE: CO

ZIP: 80640

INCIDENT DETAILS

INCIDENT DATE: 11/26/2006 13:00

INCIDENT CAUSE: TRANSPORT ACCIDENT

MATERIAL REACHED WATER: NO

REMEDIAL ACTION: BOOMS APPLIED,CONTRACTOR HAS BEEN HIRED (RMCAT ENVIRONMENTAL))

INCIDENT DESCRIPTION: {NO_MEMO_FILE_OPEN}

MATERIAL RELEASED/AMOUNT: OIL: DIESEL/30 GALLON(S)

OTHER MATERIAL RELEASED/AMOUNT: NOT REPORTED/NOT REPORTED NOT REPORTED

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Emergency Response Notification System (ERNSCO)

INCIDENT INFORMATION

GSID#: 3320950651

NRC ID#: 775730

INCIDENT LOCATION: INTERSTATE 70 WEST BOUND AT MILE MARKER 242

INCIDENT ADDRESS: INTERSTATE 70 WEST BOUND AT MILE MARKER

INCIDENT CITY: IDAHO SPRINGS

INCIDENT STATE: CO

INCIDENT ZIP: NOT REPORTED

INCIDENT COUNTY: CLEAR CREEK

RESPONSIBLE PARTY

COMPANY: AMERICAN FURNITURE WAREHOUSE

ADDRESS: 8501 GRANT STREET

CITY: THORNTON

STATE: CO

ZIP: NOT REPORTED

INCIDENT DETAILS

INCIDENT DATE: 10/11/2005 1:00

INCIDENT CAUSE: TRANSPORT ACCIDENT

MATERIAL REACHED WATER: YES

REMEDIAL ACTION: BOOMS APPLIED, ABSORBENTS APPLIED, CONTRACTOR HAS BEEN HIRED

INCIDENT DESCRIPTION: {NO_MEMO_FILE_OPEN}

MATERIAL RELEASED/AMOUNT: OIL: DIESEL/80 GALLON(S)

OTHER MATERIAL RELEASED/AMOUNT: NOT REPORTED/NOT REPORTED NOT REPORTED

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Emergency Response Notification System (ERNSCO)

INCIDENT INFORMATION

GSID#: 3948304149
NRC ID#: 787022
INCIDENT LOCATION: EB I-70
INCIDENT ADDRESS: EB I-70
INCIDENT CITY: IDAHO SPRINGS
INCIDENT STATE: CO
INCIDENT ZIP: NOT REPORTED
INCIDENT COUNTY: CLEAR CREEK

RESPONSIBLE PARTY

COMPANY: STURGEON ELECTRIC
ADDRESS: NOT REPORTED
CITY: HENDERSON
STATE: CO
ZIP: 80640

INCIDENT DETAILS

INCIDENT DATE: 1/31/2006 13:28
INCIDENT CAUSE: UNKNOWN
MATERIAL REACHED WATER: NO
REMEDIAL ACTION: ABSORBENTS WERE PLACED INTO THE CENTER OF THE MEDIAN,,CONTRACTOR HAS BEEN HIRED
INCIDENT DESCRIPTION: {NO_MEMO_FILE_OPEN}
MATERIAL RELEASED/AMOUNT: OIL, FUEL: NO. 2-D/90 GALLON(S)
OTHER MATERIAL RELEASED/AMOUNT: NOT REPORTED/NOT REPORTED NOT REPORTED

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Emergency Response Notification System (ERNSCO)

INCIDENT INFORMATION

GSID#: 2739799460

NRC ID#: 871863

INCIDENT LOCATION: NOT REPORTED

INCIDENT ADDRESS: STATE HIGHWAY 70

INCIDENT CITY: IDAHO SPRINGS

INCIDENT STATE: CO

INCIDENT ZIP: NOT REPORTED

INCIDENT COUNTY: CLEAR CREEK

RESPONSIBLE PARTY

COMPANY: LAND STAR RANGER

ADDRESS: NOT REPORTED

CITY: JACKSONVILLE

STATE: FL

ZIP: 32224

INCIDENT DETAILS

INCIDENT DATE: 5/1/2008 9:10

INCIDENT CAUSE: TRANSPORT ACCIDENT

MATERIAL REACHED WATER: NO

REMEDIAL ACTION: CALLER STATED CUSTOM ENVIRONMENTAL SERVICES DID THE CLEAN UP THE SPILL.

INCIDENT DESCRIPTION: {NO_MEMO_FILE_OPEN}

MATERIAL RELEASED/AMOUNT: OIL: DIESEL/75 GALLON(S)

OTHER MATERIAL RELEASED/AMOUNT: NOT REPORTED/NOT REPORTED NOT REPORTED

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Resource Conservation & Recovery Act - Non-Generator Facilities (RCRANGR08)

FACILITY INFORMATION

EPA ID#: **COD983778028*NG**

NAME:

ADDRESS:

CONTACT NAME:

CONTACT ADDRESS:

CONTACT PHONE:

NON-NOTIFIER:

DATE RECEIVED BY AGENCY:

CERTIFICATION - **NO CERTIFICATION REPORTED -**

INDUSTRY CLASSIFICATION (NAICS) - **NO NAICS INFORMATION REPORTED -**

— ACTIVITY INFORMATION —

GENERATOR STATUS:

SUBJECT TO CORRECTIVE ACTION UNIVERSE: **UNKNOWN**

TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: **UNKNOWN**

TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: **UNKNOWN**

NON TDSFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE:

CORRECTIVE ACTION WORKLOAD UNIVERSE: **UNKNOWN**

IMPORTER: **NOT REPORTED**

UNDERGROUND INJECTION: **NOT REPORTED**

MIXED WASTE GENERATOR: **NOT REPORTED**

UNIVERSAL WASTE DESTINATION FACILITY: **NOT REPORTED**

RECYCLER: **NOT REPORTED**

TRANSFER FACILITY: **NOT REPORTED**

TRANSPORTER: **NOT REPORTED**

USED OIL FUEL BURNER: **NOT REPORTED**

ONSITE BURNER EXEMPTION: **NOT REPORTED**

USED OIL PROCESSOR: **NOT REPORTED**

FURNACE EXEMPTION: **NOT REPORTED**

USED OIL FUEL MARKETER TO BURNER: **NOT REPORTED**

USED OIL REFINER: **NOT REPORTED**

SPECIFICATION USED OIL MARKETER: **NOT REPORTED**

USED OIL TRANSFER FACILITY: **NOT REPORTED**

USED OIL TRANSPORTER: **NOT REPORTED**

— COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION —

EVALUATIONS - **NO EVALUATIONS REPORTED -**

VIOLATIONS - **NO VIOLATIONS REPORTED -**

ENFORCEMENTS - **NO ENFORCEMENTS REPORTED -**

— HAZARDOUS WASTE —

- **NO HAZARDOUS WASTE INFORMATION REPORTED -**

UNIVERSAL WASTE - **NO UNIVERSAL WASTE REPORTED -**

CORRECTIVE ACTION AREA - **NO CORRECTIVE ACTION AREA INFORMATION REPORTED -**

CORRECTIVE ACTION EVENT - **NO CORRECTIVE ACTION EVENT REPORTED -**

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GeoSearch www.geo-search.com 888-396-0042

Hazardous Materials Incident Reporting System (HMIRSR08)

INCIDENT INFORMATION

REPORT #: 1996080131

DATE: 07/09/96

INCIDENT LOCATION:

I-70

IDAHO SPRINGS, CO 80452

COUNTY NOT REPORTED

CARRIER INFORMATION

NAME: KLEIN FRANK C & CO INC

ADDRESS: 7627 DAHLIA

COMMERCE CITY, CO 80022

MODE OF TRANSPORTATION: HIGHWAY (FOR HIRE)

TRANSPORTATION PHASE: NOT REPORTED

COMMODITY DETAILS

IDENTIFICATION NUMBER: NOT REPORTED

COMMODITY SHIPPING NAME: FUEL OIL (NO. 1,2,4,5,6)

TRADE NAME: #2 DIESEL FUEL

QUANTITY RELEASED: 7389.00 GALLONS

PACKAGING: NOT REPORTED

FAILURE DESCRIPTION

WHAT FAILED:

HOW FAILED: -

FAILURE CAUSE DESCRIPTION:

-

DESCRIPTION OF EVENTS:

TRAILER WAS NOT PROPERLY HOOKED TO TRACTOR. UNITS SEPARATED AS THEY WENT THROUGH A CURVE IN THE ROAD. TRAILER ROLLED AFTER SEPARATION. ACCIDENT WAS DUE ENTIRELY TO DRIVER ERROR. WE HAVE GIVEN SAFETY TRAINING TO ALL DRIVERS ON PROPERLY COUPLING. HALLMARK ENVIRONMENTAL WAS CALLED TO THE SCENE TO CLEAN UP THE SPILL AND CONTAMINATION.

RECOMMENDATIONS/ACTIONS TAKEN:

NO ACTION OR RECOMMENDATION REPORTED

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Underground Storage Tank Facilities (UST)

FACILITY INFORMATION

FACILITY ID: 7364
NAME: FEDERAL AVIATION ADMINISTRATION
ADDRESS: NO ST ADDRESS
IDAHO SPRINGS, CO 80452

TOTAL TANK: 1

COSTIS LINK: http://costis.cdle.state.co.us/facility.asp?h_id=7364

TANK INFORMATION

TANK ID:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:	INSTALLATION DATE:
7364-1	UST	Z UNKNOWN	999999999	CLOSED	NOT REPORTED

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Hazardous Materials Incident Reporting System (HMIRSR08)

INCIDENT INFORMATION

REPORT #: I-2010070581

DATE: 9/10/2009

INCIDENT LOCATION:

HWY 6

IDAHO SPRING, CO 80452

CLEAR CREEK COUNTY

CARRIER INFORMATION

NAME: AAO INC

ADDRESS: 8150 E 86TH AVE

DENVER, CO 80266

MODE OF TRANSPORTATION: HIGHWAY

TRANSPORTATION PHASE: IN TRANSIT

COMMODITY DETAILS

IDENTIFICATION NUMBER: NA1993

COMMODITY SHIPPING NAME: DIESEL FUEL

TRADE NAME: DIESEL FUEL

QUANTITY RELEASED: 60 LIQUID - GALLON

PACKAGING: PORTABLE TANK

FAILURE DESCRIPTION

WHAT FAILED: 133 LIQUID LINE

HOW FAILED: 305 - CRUSHED

FAILURE CAUSE DESCRIPTION:

537 - VEHICULAR CRASH OR ACCIDENT DAMAGE

DESCRIPTION OF EVENTS:

THE SEQUENCES WHERE THE DRIVER DIE IN THE ACCIDENT THE ACTION TAKEN WAS CALL 911 IMMEDIATELY AND GET ALL EMERGENCY HELP. DURATION OF THE RELEASE WAS FOR FEW HOURS ONLY UNTIL EMERGENCY DEPARTMENT STOPPED UP.

RECOMMENDATIONS/ACTIONS TAKEN:

AAO INC. HAVE MORE MEETINGS WITH ALL DRIVERS TO REMIND THEM TO PUT ATTENTION TO ALL TRAFFIC SIGNS AND TO BE ALERT AT ALL TIMES DURING DRIVING. AAO INC. HIRES DRIVERS WITH PLENTY OF EXPERIENCE.

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**Comprehensive Environmental Response, Compensation & Liability
Information System (CERCLIS)**

FACILITY INFORMATION

EPA ID#: **COD980717557*CC**

SITE ID#:

NAME:

ADDRESS:

COUNTY:

NATIONAL PRIORITY LISTING: - **NOT ON THE NPL**

FEDERAL FACILITY CLASSIFICATION: - **NOT A FEDERAL FACILITY**

NON-NPL STATUS DATE:

PHYSICAL CLASSIFICATION OF SITE / INCIDENT:

SITE DESCRIPTION - **NO SITE DESCRIPTION INFORMATION AVAILABLE -**

SITE HISTORY - **NO SITE HISTORY INFORMATION AVAILABLE -**

ACTIONS - **NO ACTION INFORMATION AVAILABLE -**

CONTAMINANTS - **NO CONTAMINATION INFORMATION AVAILABLE -**

LISTING OF PUBLISHED INSTITUTIONAL CONTROL SITE REPORT - **NOT AN INSTITUTIONAL CONTROL SITE -**

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Federal Engineering Institutional Control Sites (EC)

SITE INFORMATION

EPA ID#: COD980717557
SITE ID#: 0800257
SITE NAME: CENTRAL CITY, CLEAR CREEK
ADDRESS: NEAR TOWN
IDAHO SPRINGS, CO 80452

CONTROLS IN PLACE

OPERATIONAL UNIT: 02
CONTAMINATION: GROUNDWATER
CONTROL: ENGINEERING CONTROL, (N.O.S.) (ENGINEERING CONTROL)
ACTION: EXPLANATION OF SIGNIFICANT DIFFERENCES
COMPLETION DATE: 19990901

OPERATIONAL UNIT: 03
CONTAMINATION: SEDIMENT
CONTROL: CAP (ENGINEERING CONTROL)
ACTION: EXPLANATION OF SIGNIFICANT DIFFERENCES
COMPLETION DATE: 20050606

OPERATIONAL UNIT: 03
CONTAMINATION: SURFACE WATER
CONTROL: DISCHARGE (ENGINEERING CONTROL)
ACTION: EXPLANATION OF SIGNIFICANT DIFFERENCES
COMPLETION DATE: 20050606

OPERATIONAL UNIT: 03
CONTAMINATION: SURFACE WATER
CONTROL: TREATMENT, (N.O.S.) (ENGINEERING CONTROL)
ACTION: EXPLANATION OF SIGNIFICANT DIFFERENCES
COMPLETION DATE: 20050606

OPERATIONAL UNIT: 01
CONTAMINATION: SURFACE WATER
CONTROL: DISCHARGE (ENGINEERING CONTROL)
ACTION: RECORD OF DECISION
COMPLETION DATE: 19870930

OPERATIONAL UNIT: 01
CONTAMINATION: SURFACE WATER
CONTROL: ENGINEERED WETLAND (ENGINEERING CONTROL)
ACTION: RECORD OF DECISION
COMPLETION DATE: 19870930

OPERATIONAL UNIT: 01
CONTAMINATION: SURFACE WATER
CONTROL: PRECIPITATION (ENGINEERING CONTROL)
ACTION: RECORD OF DECISION
COMPLETION DATE: 19870930

OPERATIONAL UNIT: 02

Federal Engineering Institutional Control Sites (EC)

CONTAMINATION: **SOLID WASTE**

CONTROL: **SLOPE STABILIZATION (ENGINEERING CONTROL)**

ACTION: **RECORD OF DECISION**

COMPLETION DATE: **19880331**

OPERATIONAL UNIT: **02**

CONTAMINATION: **SOLID WASTE**

CONTROL: **SURFACE DRAINAGE CONTROL (ENGINEERING CONTROL)**

ACTION: **RECORD OF DECISION**

COMPLETION DATE: **19880331**

OPERATIONAL UNIT: **03**

CONTAMINATION: **GROUNDWATER**

CONTROL: **ALTERNATE DRINKING WATER, PERMANENT REPLACEMENT (ENGINEERING CONTROL)**

ACTION: **RECORD OF DECISION**

COMPLETION DATE: **19910930**

OPERATIONAL UNIT: **03**

CONTAMINATION: **GROUNDWATER**

CONTROL: **PUMP AND TREAT (ENGINEERING CONTROL)**

ACTION: **RECORD OF DECISION**

COMPLETION DATE: **19910930**

OPERATIONAL UNIT: **03**

CONTAMINATION: **SOLID WASTE**

CONTROL: **CAP (ENGINEERING CONTROL)**

ACTION: **RECORD OF DECISION**

COMPLETION DATE: **19910930**

OPERATIONAL UNIT: **03**

CONTAMINATION: **SURFACE WATER**

CONTROL: **ENGINEERED WETLAND (ENGINEERING CONTROL)**

ACTION: **RECORD OF DECISION**

COMPLETION DATE: **19910930**

OPERATIONAL UNIT: **04**

CONTAMINATION: **GROUNDWATER**

CONTROL: **AERATION (ENGINEERING CONTROL)**

ACTION: **RECORD OF DECISION**

COMPLETION DATE: **20040929**

OPERATIONAL UNIT: **04**

CONTAMINATION: **GROUNDWATER**

CONTROL: **BIOREACTORS (ENGINEERING CONTROL)**

ACTION: **RECORD OF DECISION**

COMPLETION DATE: **20040929**

OPERATIONAL UNIT: **04**

CONTAMINATION: **GROUNDWATER**

CONTROL: **DISCHARGE (ENGINEERING CONTROL)**

ACTION: **RECORD OF DECISION**

COMPLETION DATE: **20040929**

OPERATIONAL UNIT: **04**

CONTAMINATION: **GROUNDWATER**

Federal Engineering Institutional Control Sites (EC)

CONTROL: **EXTRACTION (ENGINEERING CONTROL)**

ACTION: **RECORD OF DECISION**

COMPLETION DATE: **20040929**

OPERATIONAL UNIT: **04**

CONTAMINATION: **SEDIMENT**

CONTROL: **CAP (ENGINEERING CONTROL)**

ACTION: **RECORD OF DECISION**

COMPLETION DATE: **20040929**

OPERATIONAL UNIT: **04**

CONTAMINATION: **SEDIMENT**

CONTROL: **DISPOSAL (ENGINEERING CONTROL)**

ACTION: **RECORD OF DECISION**

COMPLETION DATE: **20040929**

OPERATIONAL UNIT: **04**

CONTAMINATION: **SEDIMENT**

CONTROL: **ENGINEERING CONTROL, (N.O.S.) (ENGINEERING CONTROL)**

ACTION: **RECORD OF DECISION**

COMPLETION DATE: **20040929**

OPERATIONAL UNIT: **04**

CONTAMINATION: **SEDIMENT**

CONTROL: **EXCAVATION (ENGINEERING CONTROL)**

ACTION: **RECORD OF DECISION**

COMPLETION DATE: **20040929**

OPERATIONAL UNIT: **04**

CONTAMINATION: **SOLID WASTE**

CONTROL: **CAP (ENGINEERING CONTROL)**

ACTION: **RECORD OF DECISION**

COMPLETION DATE: **20040929**

OPERATIONAL UNIT: **04**

CONTAMINATION: **SOLID WASTE**

CONTROL: **DISPOSAL (ENGINEERING CONTROL)**

ACTION: **RECORD OF DECISION**

COMPLETION DATE: **20040929**

OPERATIONAL UNIT: **04**

CONTAMINATION: **SOLID WASTE**

CONTROL: **EXCAVATION (ENGINEERING CONTROL)**

ACTION: **RECORD OF DECISION**

COMPLETION DATE: **20040929**

OPERATIONAL UNIT: **04**

CONTAMINATION: **SOLID WASTE**

CONTROL: **REVEGETATION (ENGINEERING CONTROL)**

ACTION: **RECORD OF DECISION**

COMPLETION DATE: **20040929**

OPERATIONAL UNIT: **04**

CONTAMINATION: **SURFACE WATER**

CONTROL: **MONITORING (ENGINEERING CONTROL)**

Federal Engineering Institutional Control Sites (EC)

ACTION: **RECORD OF DECISION**
COMPLETION DATE: **20040929**
OPERATIONAL UNIT: **04**
CONTAMINATION: **SURFACE WATER**
CONTROL: **SURFACE WATER CONTROL (ENGINEERING CONTROL)**

ACTION: **RECORD OF DECISION**
COMPLETION DATE: **20040929**
OPERATIONAL UNIT: **04**
CONTAMINATION: **SURFACE WATER**
CONTROL: **TREATMENT, (N.O.S.) (ENGINEERING CONTROL)**

ACTION: **RECORD OF DECISION**
COMPLETION DATE: **20040929**
OPERATIONAL UNIT: **03**
CONTAMINATION: **LEACHATE**
CONTROL: **MONITORING (ENGINEERING CONTROL)**

ACTION: **ROD AMENDMENT**
COMPLETION DATE: **20030922**
OPERATIONAL UNIT: **03**
CONTAMINATION: **LEACHATE**
CONTROL: **NO ACTION (ENGINEERING CONTROL)**

ACTION: **ROD AMENDMENT**
COMPLETION DATE: **20030922**
OPERATIONAL UNIT: **04**
CONTAMINATION: **SEDIMENT**
CONTROL: **CAP (ENGINEERING CONTROL)**

ACTION: **ROD AMENDMENT**
COMPLETION DATE: **20060925**
OPERATIONAL UNIT: **04**
CONTAMINATION: **SEDIMENT**
CONTROL: **CONSOLIDATE (ENGINEERING CONTROL)**

ACTION: **ROD AMENDMENT**
COMPLETION DATE: **20060925**
OPERATIONAL UNIT: **04**
CONTAMINATION: **SEDIMENT**
CONTROL: **LEACHATE CONTROL (ENGINEERING CONTROL)**

ACTION: **ROD AMENDMENT**
COMPLETION DATE: **20060925**
OPERATIONAL UNIT: **04**
CONTAMINATION: **SEDIMENT**
CONTROL: **SURFACE DRAINAGE CONTROL (ENGINEERING CONTROL)**

ACTION: **ROD AMENDMENT**
COMPLETION DATE: **20060925**
OPERATIONAL UNIT: **04**
CONTAMINATION: **SOLID WASTE**
CONTROL: **CAP (ENGINEERING CONTROL)**

ACTION: **ROD AMENDMENT**

Federal Engineering Institutional Control Sites (EC)

COMPLETION DATE: 20060925
OPERATIONAL UNIT: 04
CONTAMINATION: SOLID WASTE
CONTROL: CONSOLIDATE (ENGINEERING CONTROL)
ACTION: ROD AMENDMENT
COMPLETION DATE: 20060925
OPERATIONAL UNIT: 04
CONTAMINATION: SOLID WASTE
CONTROL: LEACHATE CONTROL (ENGINEERING CONTROL)
ACTION: ROD AMENDMENT
COMPLETION DATE: 20060925
OPERATIONAL UNIT: 04
CONTAMINATION: SOLID WASTE
CONTROL: SURFACE DRAINAGE CONTROL (ENGINEERING CONTROL)
ACTION: ROD AMENDMENT
COMPLETION DATE: 20060925
OPERATIONAL UNIT: 04
CONTAMINATION: GROUNDWATER
CONTROL: NON-FUNDAMENTAL CHANGE (ESD) (ENGINEERING CONTROL)
ACTION: ROD AMENDMENT
COMPLETION DATE: 20100429
OPERATIONAL UNIT: 04
CONTAMINATION: SURFACE WATER
CONTROL: NON-FUNDAMENTAL CHANGE (ESD) (ENGINEERING CONTROL)
ACTION: ROD AMENDMENT
COMPLETION DATE: 20100429
OPERATIONAL UNIT: 03
CONTAMINATION: SOLID WASTE
CONTROL: INSTITUTIONAL CONTROLS, (N.O.S.) (INSTITUTIONAL CONTROL)
ACTION: RECORD OF DECISION
COMPLETION DATE: 19910930
OPERATIONAL UNIT: 04
CONTAMINATION: GROUNDWATER
CONTROL: COVENANT (INSTITUTIONAL CONTROL)
ACTION: RECORD OF DECISION
COMPLETION DATE: 20040929
OPERATIONAL UNIT: 04
CONTAMINATION: GROUNDWATER
CONTROL: GROUNDWATER USE/WELL DRILLING REGULATION (INSTITUTIONAL CONTROL)
ACTION: RECORD OF DECISION
COMPLETION DATE: 20040929
OPERATIONAL UNIT: 04
CONTAMINATION: GROUNDWATER
CONTROL: NOTICE IN NEWSPAPER (INSTITUTIONAL CONTROL)
ACTION: RECORD OF DECISION
COMPLETION DATE: 20040929

Federal Engineering Institutional Control Sites (EC)

OPERATIONAL UNIT: 04

CONTAMINATION: GROUNDWATER

CONTROL: NOTICES TO STATE REGULATORS BEFORE CHANGES IN LAND USE (INSTITUTIONAL CONTROL)

ACTION: RECORD OF DECISION

COMPLETION DATE: 20040929

OPERATIONAL UNIT: 04

CONTAMINATION: SEDIMENT

CONTROL: COVENANT (INSTITUTIONAL CONTROL)

ACTION: RECORD OF DECISION

COMPLETION DATE: 20040929

OPERATIONAL UNIT: 04

CONTAMINATION: SEDIMENT

CONTROL: NOTICE IN NEWSPAPER (INSTITUTIONAL CONTROL)

ACTION: RECORD OF DECISION

COMPLETION DATE: 20040929

OPERATIONAL UNIT: 04

CONTAMINATION: SEDIMENT

CONTROL: NOTICES TO STATE REGULATORS BEFORE CHANGES IN LAND OWNERSHIP (INSTITUTIONAL CONTROL)

ACTION: RECORD OF DECISION

COMPLETION DATE: 20040929

OPERATIONAL UNIT: 04

CONTAMINATION: SEDIMENT

CONTROL: ZONING REGULATION (INSTITUTIONAL CONTROL)

ACTION: RECORD OF DECISION

COMPLETION DATE: 20040929

OPERATIONAL UNIT: 04

CONTAMINATION: SOLID WASTE

CONTROL: COVENANT (INSTITUTIONAL CONTROL)

ACTION: RECORD OF DECISION

COMPLETION DATE: 20040929

OPERATIONAL UNIT: 04

CONTAMINATION: SOLID WASTE

CONTROL: ZONING REGULATION (INSTITUTIONAL CONTROL)

ACTION: RECORD OF DECISION

COMPLETION DATE: 20040929

OPERATIONAL UNIT: 04

CONTAMINATION: SURFACE WATER

CONTROL: COVENANT (INSTITUTIONAL CONTROL)

ACTION: RECORD OF DECISION

COMPLETION DATE: 20040929

OPERATIONAL UNIT: 04

CONTAMINATION: SURFACE WATER

CONTROL: NOTICE IN NEWSPAPER (INSTITUTIONAL CONTROL)

ACTION: RECORD OF DECISION

COMPLETION DATE: 20040929

OPERATIONAL UNIT: 04

Federal Engineering Institutional Control Sites (EC)

CONTAMINATION: **SURFACE WATER**

CONTROL: **NOTICES TO STATE REGULATORS BEFORE CHANGES IN LAND USE (INSTITUTIONAL CONTROL)**

ACTION: **RECORD OF DECISION**

COMPLETION DATE: **20040929**

OPERATIONAL UNIT: **04**

CONTAMINATION: **SURFACE WATER**

CONTROL: **ZONING REGULATION (INSTITUTIONAL CONTROL)**

ACTION: **RECORD OF DECISION**

COMPLETION DATE: **20040929**

[Back to Report Summary of Unlocatable Sites](#)

Resource Conservation & Recovery Act - Non-Generator Facilities (RCRANGR08)

FACILITY INFORMATION

EPA ID#: **COR000005058*NG**

NAME:

ADDRESS:

CONTACT NAME:

CONTACT ADDRESS:

CONTACT PHONE:

NON-NOTIFIER:

DATE RECEIVED BY AGENCY:

CERTIFICATION - **NO CERTIFICATION REPORTED -**

INDUSTRY CLASSIFICATION (NAICS) - **NO NAICS INFORMATION REPORTED -**

— ACTIVITY INFORMATION —

GENERATOR STATUS:

SUBJECT TO CORRECTIVE ACTION UNIVERSE: **UNKNOWN**

TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: **UNKNOWN**

TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: **UNKNOWN**

NON TDSFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE:

CORRECTIVE ACTION WORKLOAD UNIVERSE: **UNKNOWN**

IMPORTER: **NOT REPORTED**

UNDERGROUND INJECTION: **NOT REPORTED**

MIXED WASTE GENERATOR: **NOT REPORTED**

UNIVERSAL WASTE DESTINATION FACILITY: **NOT REPORTED**

RECYCLER: **NOT REPORTED**

TRANSFER FACILITY: **NOT REPORTED**

TRANSPORTER: **NOT REPORTED**

USED OIL FUEL BURNER: **NOT REPORTED**

ONSITE BURNER EXEMPTION: **NOT REPORTED**

USED OIL PROCESSOR: **NOT REPORTED**

FURNACE EXEMPTION: **NOT REPORTED**

USED OIL FUEL MARKETER TO BURNER: **NOT REPORTED**

USED OIL REFINER: **NOT REPORTED**

SPECIFICATION USED OIL MARKETER: **NOT REPORTED**

USED OIL TRANSFER FACILITY: **NOT REPORTED**

USED OIL TRANSPORTER: **NOT REPORTED**

— COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION —

EVALUATIONS - **NO EVALUATIONS REPORTED -**

VIOLATIONS - **NO VIOLATIONS REPORTED -**

ENFORCEMENTS - **NO ENFORCEMENTS REPORTED -**

— HAZARDOUS WASTE —

- **NO HAZARDOUS WASTE INFORMATION REPORTED -**

UNIVERSAL WASTE - **NO UNIVERSAL WASTE REPORTED -**

CORRECTIVE ACTION AREA - **NO CORRECTIVE ACTION AREA INFORMATION REPORTED -**

CORRECTIVE ACTION EVENT - **NO CORRECTIVE ACTION EVENT REPORTED -**

[Back to Report Summary of Unlocatable Sites](#)

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Environmental Records Definitions - FEDERAL

CDL Clandestine Drug Laboratory Locations

VERSION DATE: 03/04/13

The U.S. Department of Justice ("the Department") provides this information 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. The Department does not establish, implement, enforce, or certify compliance with clean-up or remediation standards for contaminated sites; the public should contact a state or local health department or environmental protection agency for that information.

EC Federal Engineering Institutional Control Sites

VERSION DATE: 04/01/13

This database includes site locations where Engineering and/or Institutional Controls have been identified as part of a selected remedy for the site as defined by United States Environmental Protection Agency official remedy decision documents. A site listing does not indicate that the institutional and engineering controls are currently in place nor will be in place once the remedy is complete; it only indicates that the decision to include either of them in the remedy is documented as of the completed date of the document. Institutional controls are actions, such as legal controls, that help minimize the potential for human exposure to contamination by ensuring appropriate land or resource use. Engineering controls include caps, barriers, or other device engineering to prevent access, exposure, or continued migration of contamination.

ERNSCO Emergency Response Notification System

VERSION DATE: 12/31/12

This National Response Center database contains data on reported releases of oil, chemical, radiological, biological, and/or etiological discharges into the environment anywhere in the United States and its territories. The data comes from spill reports made to the U.S. Environmental Protection Agency, U.S. Coast Guard, the National Response Center and/or the U.S. Department of Transportation.

HISTPST Historical Gas Stations

VERSION DATE: 07/01/30

This historic directory of service stations is provided by the Cities Service Company. The directory includes Cities Service filling stations that were located throughout the United States in 1930.

HMIRS08 Hazardous Materials Incident Reporting System

VERSION DATE: 07/08/13

The HMIRS database contains unintentional hazardous materials release information reported to the U.S.

Environmental Records Definitions - FEDERAL

Department of Transportation located in EPA Region 8. This region includes the following states: Colorado, Montana, North Dakota, South Dakota, Utah, and Wyoming.

LUCIS Land Use Control Information System

VERSION DATE: 09/01/06

The LUCIS database is maintained by the U.S. Navy and contains information for former Base Realignment and Closure (BRAC) properties across the United States.

NLRRCRAG No Longer Regulated RCRA Generator Facilities

VERSION DATE: 06/18/13

This database includes RCRA Generator facilities that are no longer regulated by the United States Environmental Protection Agency or do not meet other RCRA reporting requirements. This listing includes facilities that formerly generated hazardous waste.

Large Quantity Generators: Generate 1,000 kg or more of hazardous waste during any calendar month; or Generate more than 1 kg of acutely hazardous waste during any calendar month; or Generate more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, or acutely hazardous waste during any calendar month; or Generate 1 kg or less of acutely hazardous waste during any calendar month, and accumulate more than 1kg of acutely hazardous waste at any time; or Generate 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 accumulated more than 100 kg of that material at any time.

Small Quantity Generators: Generate more than 100 and less than 1000 kilograms of hazardous waste during any calendar month and accumulate less than 6000 kg of hazardous waste at any time; or Generate 100 kg or less of hazardous waste during any calendar month, and accumulate more than 1000 kg of hazardous waste at any time.

Conditionally Exempt Small Quantity Generators: Generate 100 kilograms or less of hazardous waste per calendar month, and accumulate 1000 kg or less of hazardous waste at any time; or Generate one kilogram or less of acutely hazardous waste per calendar month, and accumulate 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, or acutely hazardous waste; or Generate 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, or acutely hazardous waste during any calendar month, and accumulate 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.

RCRAGR08 Resource Conservation & Recovery Act - Generator Facilities

VERSION DATE: 06/18/13

This database includes sites listed as generators of hazardous waste (large, small, and exempt) in the RCRAInfo system. The United States Environmental Protection Agency defines RCRAInfo as the comprehensive information system which provides access to data supporting the Resource Conservation and Recovery Act

Environmental Records Definitions - FEDERAL

(RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). This database includes sites located in EPA Region 8. This region includes the following states: Colorado, Montana, North Dakota, South Dakota, Utah, and Wyoming.

Large Quantity Generators: Generate 1,000 kg or more of hazardous waste during any calendar month; or Generate more than 1 kg of acutely hazardous waste during any calendar month; or Generate more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, or acutely hazardous waste during any calendar month; or Generate 1 kg or less of acutely hazardous waste during any calendar month, and accumulate more than 1kg of acutely hazardous waste at any time; or Generate 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 accumulated more than 100 kg of that material at any time.

Small Quantity Generators: Generate more than 100 and less than 1000 kilograms of hazardous waste during any calendar month and accumulate less than 6000 kg of hazardous waste at any time; or Generate 100 kg or less of hazardous waste during any calendar month, and accumulate more than 1000 kg of hazardous waste at any time.

Conditionally Exempt Small Quantity Generators: Generate 100 kilograms or less of hazardous waste per calendar month, and accumulate 1000 kg or less of hazardous waste at any time; or Generate one kilogram or less of acutely hazardous waste per calendar month, and accumulate 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, or acutely hazardous waste; or Generate 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, or acutely hazardous waste during any calendar month, and accumulate 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.

RCRANGR08

Resource Conservation & Recovery Act - Non-Generator Facilities

VERSION DATE: 06/18/13

This database identifies RCRAInfo system sites that only handle hazardous waste without generating any amount hazardous waste. The United States Environmental Protection Agency defines RCRAInfo as the comprehensive information system which provides access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). This database includes sites located in EPA Region 8. This region includes the following states: Colorado, Montana, North Dakota, South Dakota, Utah, and Wyoming.

RCRASC

RCRA Sites with Controls

VERSION DATE: 06/25/12

This list of Resource Conservation and Recovery Act sites with institutional controls in place is provided by the U.S. Environmental Protection Agency.

Environmental Records Definitions - FEDERAL

TRI Toxics Release Inventory

VERSION DATE: 12/31/11

The Toxics Release Inventory, provided by the United States Environmental Protection Agency, includes data on toxic chemical releases and waste management activities from certain industries as well as federal facilities. This inventory contains information about the types and amounts of toxic chemicals that are released each year to the air, water, and land as well as information on the quantities of toxic chemicals sent to other facilities for further waste management.

BF Brownfields Management System

VERSION DATE: 07/03/13

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. The United States Environmental Protection Agency maintains this database to track activities in the various brown field grant programs including grantee assessment, site cleanup and site redevelopment.

CERCLIS Comprehensive Environmental Response, Compensation & Liability Information System

VERSION DATE: 04/26/13

CERCLIS is the repository for site and non-site specific Superfund information in support of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). This United States Environmental Protection Agency database contains an extract of sites that have been investigated or are in the process of being investigated for potential environmental risk.

NFRAP No Further Remedial Action Planned Sites

VERSION DATE: 04/26/13

This database includes sites which have been determined by the United States Environmental Protection Agency, following preliminary assessment, to no longer pose a significant risk or require further activity under CERCLA. After initial investigation, no contamination was found, contamination was quickly removed or contamination was not serious enough to require Federal Superfund action or NPL consideration.

NLRRCRAT No Longer Regulated RCRA Non-CORRACTS TSD Facilities

VERSION DATE: 06/18/13

This database includes RCRA Non-Corrective Action TSD facilities that are no longer regulated by the United States Environmental Protection Agency or do not meet other RCRA reporting requirements. This listing includes facilities that formerly treated, stored or disposed of hazardous waste.

Environmental Records Definitions - FEDERAL

ODI Open Dump Inventory

VERSION DATE: 06/01/85

The open dump inventory was published by the United States Environmental Protection Agency. An "open dump" is defined as a facility or site where solid waste is disposed of which is not a sanitary landfill which meets the criteria promulgated under section 4004 of the Solid Waste Disposal Act (42 U.S.C. 6944) and which is not a facility for disposal of hazardous waste. This inventory has not been updated since June 1985.

RCRAT Resource Conservation & Recovery Act - Treatment, Storage & Disposal Facilities

VERSION DATE: 06/18/13

This database includes Non-Corrective Action sites listed as treatment, storage and/or disposal facilities of hazardous waste in the RCRAInfo system. The United States Environmental Protection Agency defines RCRAInfo as the comprehensive information system which provides access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS).

DNPL Delisted National Priorities List

VERSION DATE: 04/26/13

This database includes sites from the United States Environmental Protection Agency's Final National Priorities List (NPL) where remedies have proven to be satisfactory or sites where the original analyses were inaccurate, and the site is no longer appropriate for inclusion on the NPL, and final publication in the Federal Register has occurred.

NLRRCRAC No Longer Regulated RCRA Corrective Action Facilities

VERSION DATE: 06/18/13

This database includes RCRA Corrective Action facilities that are no longer regulated by the United States Environmental Protection Agency or do not meet other RCRA reporting requirements.

NPL National Priorities List

VERSION DATE: 04/26/13

This database includes United States Environmental Protection Agency (EPA) National Priorities List sites that fall under the EPA's Superfund program, established to fund the cleanup of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action.

PNPL Proposed National Priorities List

VERSION DATE: 04/26/13

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Environmental Records Definitions - FEDERAL

This database contains sites proposed to be included on the National Priorities List (NPL) in the Federal Register. The United States Environmental Protection Agency investigates these sites to determine if they may present long-term threats to public health or the environment.

RCRAC Resource Conservation & Recovery Act - Corrective Action Facilities

VERSION DATE: 06/18/13

This database includes hazardous waste sites listed with corrective action activity in the RCRAInfo system. The Corrective Action Program requires owners or operators of RCRA facilities (or treatment, storage, and disposal facilities) to investigate and cleanup contamination in order to protect human health and the environment. The United States Environmental Protection Agency defines RCRAInfo as the comprehensive information system which provides access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS).

RODS Record of Decision System

VERSION DATE: 07/01/13

These decision documents maintained by the United States Environmental Protection Agency describe the chosen remedy for NPL (Superfund) site remediation. They also include site history, site description, site characteristics, community participation, enforcement activities, past and present activities, contaminated media, the contaminants present, and scope and role of response action.

Environmental Records Definitions - STATE (CO)

AST Aboveground Storage Tank Facilities

VERSION DATE: 07/09/13

The Oil and Public Safety Division of the Colorado Department of Labor and Employment maintains this list of aboveground storage tank facilities.

CDL Clandestine Drug Laboratory Locations

VERSION DATE: 12/31/10

The North Metro Task Force provides this list of Methamphetamine labs seized between 2001 and 2010. The North Metro area includes the following Cities and Counties of Colorado: Adams County, Broomfield, Brighton, Commerce City, Federal Heights, Northglenn, Thornton, and Westminster. According to Section 2 of Colorado Revised Statutes: "25-18.5-103. Discovery of an illegal drug laboratory - property owner - clean-up - liability. (1) (a) Upon notification from a peace officer that chemicals, equipment, or supplies indicative of an illegal drug laboratory are located on a property, or when an illegal drug laboratory used to manufacture methamphetamine is otherwise discovered and the property owner has received notice, the owner of any contaminated property shall meet the cleanup standards for property established by the board in section 25-18.5-102".

COVENANTS Environmental Real Covenants List

VERSION DATE: 04/01/13

Senate Bill 01-145 gave authority to the Colorado Department of Public Health and Environment to approve requests to restrict the future use of a property using an enforceable agreement called an environmental covenant. These covenants, which are recorded with the deed and run with the land, provide a mechanism to ensure that institutional controls that are part of environmental remediation projects are properly implemented and that engineered structures are protected and maintained, so that implemented remedies continue to be protective of human health and the environment for as long as any residual contamination remains a risk.

HWSG Hazardous Waste Sites- Generator

VERSION DATE: 06/30/03

The Resource Conservation and Recovery Act (RCRA) was enacted by congress in 1976, followed by the promulgation of implementing regulations in 1980. In 1984, the State was authorized by EPA to implement the RCRA program in Colorado on their behalf. This facility listing includes RCRA sites listed as generators of hazardous waste (Small Quantity Generators and Large Quantity Generators) and was provided by the Colorado Department of Public Health and Environment.

Small Quantity Generators (SQG) generate, in any calendar month, more than 100 kg (220 lbs.) but less than 1,000 kg (2,200 lbs.) of RCRA hazardous waste; and generate, in any calendar month, or accumulate at any time, no more than 1 kg (2.2 lbs.) of acute hazardous waste and no more than 100 kg (220 lbs.) of material from the cleanup of a spill of acute hazardous waste; and accumulate on-site no more than 6000 kg (13,200 lbs.) of hazardous waste at any one time; or, the site is a Small Quantity Generator if the site met all other criteria for a Conditionally Exempt Small Quantity Generator, but accumulated, at any time, more than 1,000 kg (2,200 lbs.) of RCRA hazardous waste.

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Environmental Records Definitions - STATE (CO)

Large Quantity Generators (LQG) generate, in any calendar month, 1,000 kg (2,200 lbs.) or more of RCRA hazardous waste; or generate, in any calendar month, or accumulated at any time, more than 1 kg (2.2 lbs.) of RCRA acute hazardous waste; or generate, in any calendar month, or accumulated at any time, more than 100 kg (220 lbs.) of spill cleanup material contaminated with RCRA acute hazardous waste.

SPILLS Spills Listing

VERSION DATE: 07/15/13

The Colorado Department of Public Health and Environment's Division of Emergency Preparedness and Response maintains this listing of chemical spills and/or releases.

UST Underground Storage Tank Facilities

VERSION DATE: 07/09/13

The Oil and Public Safety Division of the Colorado Department of Labor and Employment maintains this list of underground storage tank facilities.

HISTSWLF Historical Solid Waste Landfills

VERSION DATE: NR

This historical solid waste landfills database contains data from the Hazardous Materials Waste Management Division (HMWMD) of the Colorado Department of Public Health and other various state and local agencies. In the early 1980s, the HMWMD conducted a survey of staff members and local agencies to compile this listing of sites that were known or thought to have waste issues. This Solid Waste Historical Data is not considered complete or verifiable and has not been maintained since the late 1980s. The HMWMD is not responsible and shall not be liable to the used for damages of any kind arising out of the use of this data or information.

HWSTSD Hazardous Waste Sites- Treatment, Storage & Disposal

VERSION DATE: 06/30/03

The Resource Conservation and Recovery Act (RCRA) was enacted by congress in 1976, followed by the promulgation of implementing regulations in 1980. In 1984, the State was authorized by EPA to implement the RCRA program in Colorado on their behalf. TSD facilities treat, store, dispose, or recycle hazardous waste on site in units and therefore are subject to RCRA permitting requirements. Historic TSDs are facilities that have completed closure and/or post-closure of the RCRA Subtitle C Regulated Unit(s) or the Treatment/Storage/Disposal Unit is no longer regulated. This database was provided by the Colorado Department of Public Health and Environment.

LST Leaking Storage Tank Facilities

VERSION DATE: 07/09/13

The Oil and Public Safety Division of the Colorado Department of Labor and Employment maintains this list of

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Environmental Records Definitions - STATE (CO)

leaking aboveground and underground storage tank facilities.

LUSTTRUST Leaking Underground Storage Tanks Trust Fund Sites

VERSION DATE: 01/01/00

Suspected tank leaks have been discovered at the sites included in this database, but the facility responsible for the leak has not been identified. The state's investigation and search for responsible parties is paid for out of the state's Leaking Underground Storage Tank (LUST) Trust Fund. This database was provided by the Colorado Department of Labor & Employment, Division of Oil and Public Safety, State Fund Section and is no longer updated.

METHANESITES Methane Gas Study Sites

VERSION DATE: 01/01/81

This Investigation of Methane Gas Hazards report was prepared by the Denver Office of Emergency Preparedness in 1981. The purpose of this study was to assess the actual and potential generation, migration, explosive and related problems associated with specified landfills, and to identify existing and potential problems, suggested strategies to prevent, abate, and control such problems and recommend investigative and monitoring functions as may be deemed necessary. The Colorado Department of Health selected eight landfills as priorities due to population density and potential hazards to population and property.

SWF Solid Waste Facilities

VERSION DATE: 12/31/12

The Colorado Department of Public Health and Environment maintains this database of active solid waste disposal facilities, transfer stations, recyclers, waste tire registrants, and waste grease registrants.

VCRA Voluntary Cleanup and Redevelopment Program Sites

VERSION DATE: 01/16/13

This site listing is provided by the Colorado Department of Public Health and Environment (CDPHE) and includes both voluntary cleanup and brownfield properties. The Voluntary Cleanup and Redevelopment program was created in 1994. The objective of the program is to facilitate the redevelopment and transfer of contaminated properties. Properties that sit untouched because of their real or perceived contamination can be rehabilitated using the CDPHE's Brownfields Program in conjunction with the Voluntary Cleanup Program. Cleanup decisions are based on existing standards and the proposed use of the property. The actual cleanup and verification is the owner's responsibility.

HWSCA Hazardous Waste Sites- Corrective Action

VERSION DATE: 06/30/03

The Resource Conservation and Recovery Act (RCRA) was enacted by congress in 1976, followed by the

Environmental Records Definitions - STATE (CO)

promulgation of implementing regulations in 1980. In 1984, the Hazardous and Solid Waste Amendments (HSWA) were added to RCRA providing for corrective action at facilities subject to RCRA. That same year, the State was authorized by EPA to implement the RCRA program in Colorado on their behalf. Corrective action may be implemented as part of a RCRA Hazardous Waste Permit, an Order, or a Corrective Action Plan pursuant to the Colorado Hazardous Waste Regulations. Corrective action is the process by which regulated facilities investigate and remediate, as necessary, all contamination (soil, ground water, surface water, air) associated with their releases into the environment. Historic Corrective Action Sites are facilities that have completed the RCRA Subtitle C corrective Action process. This database was provided by the Colorado Department of Public Health and Environment.

SF Superfund Sites

VERSION DATE: 06/01/03

This listing contains active, deleted and proposed "Superfund" hazardous waste sites, as well as those sites identified through the Natural Resource Damages section of Superfund legislation and one Private Non-Superfund Cleanup site. A site qualifies for the National Priorities List (NPL or Superfund list) when the U.S. Environmental Protection Agency (EPA) determines there is a release or threatened release of hazardous substances that may endanger public health, welfare or the environment. In Colorado, the lead agency for Superfund remediation may be either the EPA or the Colorado Department of Public Health and Environment.

Environmental Records Definitions - TRIBAL

USTR08 Underground Storage Tanks On Tribal Lands

VERSION DATE: 02/01/13

This database, provided by the United States Environmental Protection Agency (EPA), contains underground storage tanks on Tribal lands located in EPA Region 8. This region includes the following states: Colorado, Montana, North Dakota, South Dakota, Utah, and Wyoming.

LUSTR08 Leaking Underground Storage Tanks On Tribal Lands

VERSION DATE: 02/01/13

This database, provided by the United States Environmental Protection Agency (EPA), contains leaking underground storage tanks on Tribal lands located in EPA Region 8. This region includes the following states: Colorado, Montana, North Dakota, South Dakota, Utah, and Wyoming.

ODINDIAN Open Dump Inventory on Tribal Lands

VERSION DATE: 11/08/06

This Indian Health Service database contains information about facilities and sites on tribal lands where solid waste is disposed of, which are not sanitary landfills or hazardous waste disposal facilities, and which meet the criteria promulgated under section 4004 of the Solid Waste Disposal Act (42 U.S.C. 6944).

INDIANRES Indian Reservations

VERSION DATE: 01/01/00

The Department of Interior and Bureau of Indian Affairs maintains this database that includes American Indian Reservations, off-reservation trust lands, public domain allotments, Alaska Native Regional Corporations and Recognized State Reservations.

Appendix B Resumes



Timothy R. Grenier
Environmental Engineer

PROFESSIONAL EXPERIENCE

Mr. Grenier is an Engineer in Training with expertise in Environmental Site Assessments (ESAs) and Demolition/Renovation Asbestos Surveys. He has completed numerous Phase I/II/III ESAs throughout the Rocky Mountain Region for a variety of clients including car dealerships, car parts suppliers, banks, and various other commercial properties. Mr. Grenier has conducted many pre-demolition and renovation asbestos surveys on buildings ranging from abandoned warehouses, medical facilities, office buildings, and commercial properties.

RELEVANT EXPERIENCE

Remediation. Mr. Grenier provided technical oversight and confirmatory clearance sampling during the excavation of contaminated soils at multiple locations in the Denver metro area.

Asbestos Surveys. Mr. Grenier has conducted asbestos inspections throughout Colorado, Utah, and Wyoming. He played a lead role in a demolition asbestos survey of a 250,000 square foot office building, and helped complete a demolition survey of a medical facility that required over 2,700 samples.

Phase II ESAs. Mr. Grenier has completed multiple Phase II Environmental Site Assessments throughout the Rocky Mountain Region. His project responsibilities have included: installation of groundwater and soil vapor sampling wells; completion of field data forms; groundwater, soil, and soil vapor sampling; generating tables from laboratory analytical data in reader friendly format; and, generating reports for each of the survey locations, including conclusions and recommendations based on gathered information.

Phase I ESAs. Mr. Grenier has been the project manager for multiple Phase I Environmental Site Assessments. His projects consisted of correspondence with necessary parties, site reconnaissance, historic and regulatory records review, and report preparation.

Lead Paint Surveys. Mr. Grenier has completed comprehensive lead-based paint surveys for multiple projects. His experience includes inspections at 60 elementary schools in the Denver Public School system, and at 15 buildings at the Fort Douglas Army Reserve Center in Salt Lake City, Utah.

AREAS OF EXPERTISE

Water Resources
Remediation
Phase II ESAs
Phase I ESAs
Lead Paint Surveys
Asbestos Surveys

EDUCATION

B.S., Environmental
Engineering, University of
Colorado at Boulder

CERTIFICATIONS

Lead-Based Paint
Inspector/Risk Assessor,
No. 17667, Colorado

Certified Asbestos Building
Inspector, No. 18029,
Colorado

40 Hour OSHA
HAZWOPER, 8-hour
refresher

Timothy R. Grenier
Environmental Engineer

Water Resources. Mr. Grenier has coordinated a number of water resources projects. His experience includes watershed monitoring activities for one of the nation's largest volunteer based water quality monitoring organizations, and analysis of water samples for pH, dissolved oxygen, alkalinity, hardness, and total dissolved and suspended solids. Mr. Grenier has also conducted training of proper sampling and analysis techniques.



Lauren E. Evans, P.E.
President

PROFESSIONAL EXPERIENCE

Ms. Evans has 31 years of consulting experience, in contaminant assessment and remediation, regulatory compliance, and NEPA studies. She has served as project manager on all phases of these projects. With respect to contamination investigations, she has completed projects for real estate due diligence studies, and under RCRA, CERCLA, Brownfields, and Colorado voluntary clean-up programs.

Ms. Evans has been involved with more than 3,000 Phase I Environmental Site Assessments nationwide and overseen remediation of sites contaminated by releases of petroleum products, chlorinated solvents, and metals. She has been involved during Environmental Impact Statements and Environmental Assessments of highway, transit, rail, and aviation projects, and had collected data and evaluated impacts of numerous resource areas.

Ms. Evans has also provided quality assurance/quality control review of the documents during all stages of the projects. Ms. Evans has assisted legal counsel with the technical aspects of numerous cases, including PRP evaluation at CERLCA sites, and on those involving regulatory compliance, consultant negligence, asbestos in soil, and other contaminant issues. Finally, Ms. Evans is the founder and president of Pinyon Environmental, Inc.

RELEVANT EXPERIENCE

NEPA EIS. Ms. Evans has worked on NEPA studies for various types of transportation projects, including rail, transit, highway and aviation. On the FasTracks program in Colorado, she worked on EIS documents for three corridors and for the redevelopment of Denver Union Station, and on EAs or their local equivalents for four corridors and the commuter rail maintenance facility. On these projects, Ms. Evans had varying levels of responsibility, from project management through quality review of draft and final documents. She collected and analyzed data for numerous resource areas, including hazardous materials, water quality, farmlands, floodplains, land use, environmental justice, energy use, safety, and air quality. She prepared technical memos and sections of the EIS and EA documents. On other projects, Ms. Evans was involved in public outreach activities, scoping, and development of purpose and need.

NEPA Cat Ex. Ms. Evans has been involved in completing categorical exclusion documentation for more than 30 road and highway projects, with development of data and information, assessment of potential impacts, and quality assurance review of prepared documents. These projects have been located throughout Colorado and in the state of New York, and have involved intersection improvements, bridge replacements, trail development and other transportation enhancements.

AREAS OF EXPERTISE

VCUP Experience
Phase II ESAs
NEPA EIS
NEPA Cat Ex
Brownfields Experience

EDUCATION

B.S., Geological Engineering,
Colorado School of Mines

PE LICENSES

Colorado, License #27007
(1990)
Nebraska, License #E-11779
New York, License #085662
Nevada, License #020415

REGISTRATIONS

OPS Registered Consultant
Program, Colorado,
Individual Number 5131

CERTIFICATIONS

First Aid and CPR

Engineering Expert Witness
(ACEC), No. EEW23

8-Hour OSHA Supervisor

40 Hour OSHA
HAZWOPER

MEMBERSHIPS

ACEC Colorado, Chair of
the ACEC/CO Energy
Committee (2012 - present)

ACEC Colorado, National
Director (2010 - 2012)

ACEC National Planning
Cabinet, 2010 - 2012

ACEC National
Environment & Energy
Committee (2003 - present)

ACEC/CO Environmental
Committee (past
Chairperson)

Past President American
Council of Engineering
Companies of Colorado
(ACEC/CO) (President from
2008 - 2009)

VOLUNTEER INVOLVEMENT

Colorado Water Quality
Control Commission,
Secretary and Water
Quality Commissioner, 2011
- present

Colorado Dry Cleaner
Committee, 2009 - present

Colorado Hazardous Waste
Commission (governor
appointment); Served 2000 -
2007; Chairperson 2004 -
2007

Iliff Ridge HOA, Lakewood,
Colorado, 2000-present:
president

Denver CASA (Court
Appointed Special
Advocate), Denver,
Colorado, 1999-2006: Child
Advocate

Socially Conscious Coffee,
Denver, Colorado, 2006-
Present: Chairperson, Board
of Directors

Brownfields Experience. Ms. Evans has acted as project manager on several Brownfields sites in Colorado, with previous uses ranging from industrial to commercial/retail, with a variety of chemicals of concern. On these projects she prepared and reviewed quality assurance project plans (QAPPs) and sampling and analysis plans (SAPs), and oversaw the investigations. She defined the sampling and analysis strategy for soil, water and vapor sampling, and developed standard operating procedures for the sampling techniques. These plans were reviewed and approved by the US EPA prior to field work commencement. Many of these projects also received an NFA from the Colorado voluntary cleanup program. Finally, she evaluated the data and wrote the final reports for submittal to the client and to the US EPA.

VCUP Experience. Ms. Evans has managed several projects completed in order to obtain a finding of no further action (NFA) under the Colorado Voluntary Cleanup Program (VCUP). The contaminants on these projects included petroleum products, chlorinated solvents, and metals. The properties had previously been used as auto repair facilities, waste water treatment plants, junk yards and dry cleaners, or were impacted by adjacent industrial facilities. Ms. Evans has completed the subsurface investigations, Phase I ESAs, and the VCUP applications. She has successfully obtained an NFA determination on all of the projects she has worked on.

Phase II ESAs. Ms. Evans has conducted numerous Phase II assessments for evaluating soil and groundwater contamination. These projects have involved volatile and semi-volatile organic compounds, pesticides and herbicides, metals, radioactive elements, and biological contaminants. She has completed all aspects of these projects from sampling plan design and implementation through report preparation and closure. Ms. Evans has employed numerous sampling technologies, including multi-port sampling wells and random sampling schemes.

PROJECT EXPERIENCE

FasTracks Ms. Evans provided Independent Technical Review and impact evaluation for the RTD FasTracks Gold Line and North Metro Corridor EISs, the Commuter Rail Maintenance Facility EA, and the US 36 EIS. She has provided internal review for the I-225 Corridor and the Southeast/Southwest Corridor extension projects. Ms. Evans was hazardous materials manager for the Gold Line project and has been involved with the Environmental Evaluation for the Northwest Rail project. She has also developed budgets and the project management plans. In addition, Ms. Evans prepared the Scoping Report, assisted staff member Scott Epstein with the Purpose and Need, and prepared technical memos on affected environments, including those for hazardous materials and water resources. Ms. Evans provided similar services on the draft Denver Union Station EIS.

Appendix C Photographic Log

Photo 1. View of Silver Spruce Mine in the background.



Photo 2. View of Argo Water Treatment Facility and Clear Creek.



Photo 3. View of Idaho Springs and I-70, looking northwest.



Photo 4. View of typical pole mounted transformers found throughout the project vicinity. No pole mounted transformers were found on the Site.



Photo 5. View of I-70 looking east from Idaho Springs.



Photo 6. View of I-70 looking west from Idaho Springs.



Photo 7. View of structure F-14-E, bridge carrying SH-103 over I-70. Bridge will be replaced during project activities.



Photo 8. View of two automotive fueling stations located adjacent to bridge structure F-14-E. The automotive fueling stations are not expected to impact project activities.



Photo 9. View of I-70 looking west.



Photo 10. View of the Rockford Mine. Notice the yellow and red discolorations on the slope of the canyon.



Photo 11. View
of the Stanley
Smelter
Complex.



Appendix D Glossary of Terms

ACBM	Asbestos Containing Building Material. Any surfacing, thermal systems insulation or miscellaneous material found in or on interior structural members which contains more than one percent asbestos.
ACGIH	American Conference of Governmental Industrial Hygienists
ASHERA	Asbestos Hazard Emergency Response Act
ASHARA	Asbestos School Hazard Re-Authorization Act
AST	Above-ground Storage Tank
CAA	Clean Air Act
CDPHE	Colorado Department of Public Health and Environment
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act, commonly referred to as Superfund.
CERCLIS	Comprehensive Environmental Response, Compensation and Liability Information System
CORRACTS	RCRA Corrective Action Site
COT	Chain of Title
CWA	Clean Water Act
EPA	Environmental Protection Agency
EPCRA	Emergency Planning and Community Right-to-Know Act
ERNS	Emergency Response Notification System
ESA	Environmental Site Assessment
FIFRA	Federal Insecticide, Fungicide and Rodenticide Act
Hazardous Materials	Hazardous material means any substance, waste, or material determined by any state, federal or local governmental authority to be capable of posing a risk of injury to health, safety and property, including, but not limited to, all substances, wastes and materials designated, defined or listed as hazardous, extremely hazardous or toxic pursuant to the Clean Water Act, 33 USC Sec. 1251, et seq.; Resource Conservation and Recovery Act, 42 USC Sec. 6901 et. seq.; the Comprehensive Environmental Response, Compensation and Liability Act of 1980, as amended by the Superfund Amendments and Reauthorization Act of 1986, 42 USC Sec. 9601, et. seq.; the United States Department of Transportation Hazardous Material Table, 49 CFR Part 172; regulations of the Environmental Protection Agency, 40 CFR Part 302; or such substances, materials and wastes that are or become regulated under

Modified Environmental Site Assessment

I-70 Eastbound Peak Period Shoulder Lane
Empire Junction to Idaho Springs, Clear Creek County, Colorado

any applicable local, state or federal law, and including any asbestos, petroleum and any petroleum fractions, urea formaldehyde foam insulation, chlorofluorocarbons (CFCs), or polychlorinated biphenyls (PCBs).

Hazardous Substance	Defined by CERCLA. Includes substances designated for special consideration under the CAA, the CWA, or the TSCA, and any hazardous wastes defined under RCRA. EPA can designate additional substances as hazardous if they present substantial danger to health and the environment.
Hazardous Waste	Waste defined in RCRA, which, due to its quantity, concentration, or physical, chemical or infectious characteristics, may present a hazard to human health or the environment.
LBP	Lead-Based Paint
LQG	Large Quantity Generator. Refers to a generator who generates more than 1,000 kilograms of hazardous waste in a calendar month.
LUST	Leaking Underground Storage Tank
mg/Kg	milligram per kilogram
mg/L	milligram per liter
NESHAP	National Emission Standard for Hazardous Air Pollutants
NFA	No Further Action
NFRAP	No Further Remedial Action Planned
NIOSH	National Institute for Occupational Safety and Health
NPDES	National Pollutant Discharge Elimination System
NPL	National Priority List (Superfund sites)
NVLAP	National Voluntary Laboratory Accreditation Program
OIS	Oil Inspection Section, Colorado Department of Labor and Employment
OTHERHW	Listed RCRA Facilities but do not fit into category of CORRACTS, TSDs, or Generators; includes Transporters, Non-Notifiers, former Generators, and others.
OSHA	Occupational Safety and Health Administration
PA/SI	Preliminary Assessment/Site Investigation (CERCLA study)
PCB	Polychlorinated biphenyl

PEL	Permissible Exposure Limit
PLM	Polarized Light Microscopy, a method of analyzing bulk samples for asbestos.
	Parts-per-billion
ppb	
	Parts-per-million
ppm	
RECs	Recognized Environmental Conditions
RCRA	Resource Conservation and Recovery Act
	RCRA facilities with a reported violation
RCRA-Viol	
RCRIS	Resource Conservation and Recovery Information System
	RCRA TSD facilities subject to corrective action
RCRIS- TSDC	
RFA	RCRA Facility Assessment (RCRA study).
RFI	RCRA Facility Investigation (RCRA study).
RI/FS	Remedial Investigation/Feasibility Study (CERCLA study).
SCL	State CERCLIS Equivalent Site
SDWA	Safe Drinking Water Act
SPILLS	State spills list and federal ERNS list.
SPL	State NPL Equivalent Site
SQG	Small Quantity Generator. Refers to a generator who generate between 100 and 1,000 kilograms of hazardous waste in a calendar month.
SWLF	Solid Waste Landfill
TRIS	Toxic Release Inventory System
TLV	Threshold Limit Value
TSCA	Toxic Substance Control Act
TSD	Treatment, Storage or Disposal (refers to RCRA facilities).
$\mu\text{g}/\text{Kg}$	microgram per kilogram
$\mu\text{g}/\text{L}$	microgram per liter

USDA	United States Department of Agriculture
USGS	United States Geological Survey
UST	Underground Storage Tank
Viol/Enf	Violations/Enforcement Actions (RCRA)
VSQ	Very Small Quantity Generator. Refers to a generator who generates less than 100 kilograms of hazardous waste in a calendar month.

Appendix E Origins Laboratory Soil Analytical Report

September 24, 2013

Pinyon

Brian Partington

9100 West Jewell Avenue, Suite 200

Lakewood CO 80232

Project Name - I-70/Hwy 103

Project Number - [none]

Attached are you analytical results for I-70/Hwy 103 received by Origins Laboratory, Inc. September 17, 2013. This project is associated with Origins project number X309058-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



Pinyon
9100 West Jewell Avenue, Suite 200
Lakewood CO 80232

Brian Partington
Project Number: [none]
Project: I-70/Hwy 103

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
YA-01 @ 13.5-18.5	X309058-01	Soil	August 28, 2013 0:31	09/17/2013 11:50
B-3 @ 14-18	X309058-02	Soil	September 3, 2013 23:05	09/17/2013 11:50
B-4 @ 10-15	X309058-03	Soil	September 4, 2013 23:00	09/17/2013 11:50
B-4 @ 25-30	X309058-04	Soil	September 4, 2013 23:00	09/17/2013 11:50

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Noelle E Doyle, President

Pinyon
 9100 West Jewell Avenue, Suite 200
 Lakewood CO 80232

Brian Partington
 Project Number: [none]
 Project: I-70/Hwy 103

www.originslaboratory.com

X309058

page 1 of 7

Client: Pinyon
 Address: 9100 W. Jewell
 Lakewood, CO
 Telephone Number: 303-980-5300
 Email Address: bpartington@pinyon-env.com

Project Manager: Brian Partington
 Project Name: I-70/Hwy 103
 Project Number:
 Samples Collected By: B.P.D.K.

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Conister #		Other
YA-02 13.5-18.5	8/26/13	0031	2	X				X				1
B-3 14-18	9/3/13	2305	2	X								2
B-4 10-15	9/4/13	2300	2	X				X				3
B-4 25-30	9/4/13	2300	2	X				X				4
												5
												6
												7
												8
												9
												10

Analysis: RCPAS

Relinquished By: [Signature] Date: 9/17/13 Time: 11:50
 Turnaround Time: Same Day 24 Hr 48 Hr 72 Hr Standard

1725 Elk Place | Denver, CO 80211 | Phone: 303.433.1322

Origins Laboratory, Inc.

Noelle E Doyle, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Pinyon
 9100 West Jewell Avenue, Suite 200
 Lakewood CO 80232

Brian Partington
 Project Number: [none]
 Project: I-70/Hwy 103

Origins Laboratory F-012207-01-R1
Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: X309058 Client: Pinyon
 Client Project ID: I-70/Hwy 103
 Checklist Completed by: Jesse Smith Shipped Via: H/D
 Date/time completed: 9/17/13 11:55 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: NA
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1 / 153 °C _____ °C _____ °C (Describe) _____ °C
 Thermometer ID: 7002

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	X			
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		X		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		X		
Were all samples received intact ⁽¹⁾ ?	X			
Was adequate sample volume provided ⁽¹⁾ ?	X			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		X		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	X			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	X			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	X			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	X			
For volatiles in water — is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			X	Soil
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity) (pH < 2 for samples preserved with HNO3, HCL, H2SO4) / (pH > 10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			X	Soil
Additional Comments (if any):				

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to fix the additional comments (above) and the case narrative.

Reviewed by:  (Project Manager)

Date/Time Reviewed: 9-19-13
1343

Origins Laboratory, Inc.



Noelle E Doyle, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Pinyon
 9100 West Jewell Avenue, Suite 200
 Lakewood CO 80232

Brian Partington
 Project Number: [none]
 Project: I-70/Hwy 103

YA-01 @ 13.5-18.5
 8/28/2013 12:31:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
 X309058-01 (Soil)

Metals by SW846 3050B/6010C

Arsenic	12.9	2.90	mg/kg dry	1	1332064	09/19/2013	09/20/2013	
Barium	166	0.484	"	"	"	"	"	
Cadmium	1.12	0.484	"	"	"	"	"	
Chromium	34.1	0.484	"	"	"	"	"	
Lead	99.9	0.968	"	"	"	"	"	
Selenium	ND	14.5	"	5	"	"	"	U
Silver	1.83	0.484	"	1	"	"	"	

Metals by SW846 7471A

Mercury	0.0405	0.0129	mg/kg dry	1	1332280	"	09/20/2013	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Noelle E Doyle, President

Pinyon
 9100 West Jewell Avenue, Suite 200
 Lakewood CO 80232

Brian Partington
 Project Number: [none]
 Project: I-70/Hwy 103

B-3 @ 14-18
 9/3/2013 11:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	-------

GEL Laboratories, LLC
 X309058-02 (Soil)

Metals by SW846 3050B/6010C

Arsenic	ND	3.22	mg/kg dry	1	1332064	09/19/2013	09/20/2013	U
Barium	44.5	0.536	"	"	"	"	"	
Cadmium	0.351	0.536	"	"	"	"	"	J
Chromium	16.8	0.536	"	"	"	"	"	
Lead	11.1	1.07	"	"	"	"	"	
Selenium	ND	16.1	"	5	"	"	"	U
Silver	0.560	0.536	"	1	"	"	"	

Metals by SW846 7471A

Mercury	0.0112	0.0124	mg/kg dry	1	1332280	"	09/20/2013	J
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Noelle E Doyle, President

Pinyon
 9100 West Jewell Avenue, Suite 200
 Lakewood CO 80232

Brian Partington
 Project Number: [none]
 Project: I-70/Hwy 103

B-4 @ 10-15
 9/4/2013 11:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	-------

GEL Laboratories, LLC
 X309058-03 (Soil)

Metals by SW846 3050B/6010C

Arsenic	1.21	3.21	mg/kg dry	1	1332064	09/19/2013	09/20/2013	J
Barium	15.9	0.536	"	"	"	"	"	
Cadmium	0.159	0.536	"	"	"	"	"	J
Chromium	11.2	0.536	"	"	"	"	"	
Lead	9.95	1.07	"	"	"	"	"	
Selenium	ND	3.21	"	"	"	"	"	U
Silver	0.307	0.536	"	"	"	"	"	J

Metals by SW846 7471A

Mercury	0.0255	0.0131	mg/kg dry	1	1332280	"	09/20/2013	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Noelle E Doyle, President

Pinyon
 9100 West Jewell Avenue, Suite 200
 Lakewood CO 80232

Brian Partington
 Project Number: [none]
 Project: I-70/Hwy 103

B-4 @ 25-30
 9/4/2013 11:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	-------

GEL Laboratories, LLC
 X309058-04 (Soil)

Metals by SW846 3050B/6010C

Arsenic	3.96	3.30	mg/kg dry	1	1332064	09/19/2013	09/20/2013	
Barium	28.8	0.550	"	"	"	"	"	
Cadmium	0.294	0.550	"	"	"	"	"	J
Chromium	13.9	0.550	"	"	"	"	"	
Lead	10.8	1.10	"	"	"	"	"	
Selenium	ND	16.5	"	5	"	"	"	U
Silver	0.460	0.550	"	1	"	"	"	J

Metals by SW846 7471A

Mercury	ND	0.0121	mg/kg dry	1	1332280	"	09/20/2013	U
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Noelle E Doyle, President

Pinyon
 9100 West Jewell Avenue, Suite 200
 Lakewood CO 80232

Brian Partington
 Project Number: [none]
 Project: I-70/Hwy 103

Metals by SW846 3050B/6010C - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1332064 - SW846 3050B

BLANK (1202950021-BLK)

Prepared: 09/19/2013 Analyzed: 09/20/2013

Barium	ND	0.0986	mg/kg		0		-			U
Cadmium	ND	0.0986	"		0		-			U
Chromium	0.150	0.148	"		0		-			J
Lead	ND	0.325	"		0		-			U
Selenium	ND	0.493	"		0		-			U
Silver	ND	0.0986	"		0		-			U
Arsenic	ND	0.493	"		0		-			U

LCS (1202950022-BKS)

Prepared: 09/19/2013 Analyzed: 09/20/2013

Silver	45.8	0.0896	mg/kg	44.8	0	102	80-120			
Arsenic	43.4	0.448	"	44.8	0	96.9	80-120			
Barium	45.1	0.0896	"	44.8	0	101	80-120			
Cadmium	46.4	0.0896	"	44.8	0	104	80-120			
Chromium	45.7	0.134	"	44.8	0	102	80-120			
Lead	45.9	0.296	"	44.8	0	103	80-120			
Selenium	48.3	0.448	"	44.8	0	108	80-120			

DUP (1202950023 D)

Source: X309058-01

Prepared: 09/19/2013 Analyzed: 09/20/2013

Barium	156	0.0928	mg/kg dry		166		0-20	6.47	20	
Cadmium	0.836	0.0928	"		1.12		0-20	29.3	20	
Chromium	34.7	0.139	"		34.1		0-20	1.67	20	
Lead	72.3	0.306	"		99.9		0-20	32.1	20	
Selenium	ND	2.32	"		<2.32		0-20	39.9	20	U
Silver	2.04	0.0928	"		1.83		0-20	10.7	20	
Arsenic	10.2	0.464	"		12.9		0-20	23.5	20	

MS (1202950024 S)

Source: X309058-01

Prepared: 09/19/2013 Analyzed: 09/20/2013

Origins Laboratory, Inc.



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Noelle E Doyle, President

Pinyon
 9100 West Jewell Avenue, Suite 200
 Lakewood CO 80232

Brian Partington
 Project Number: [none]
 Project: I-70/Hwy 103

Metals by SW846 3050B/6010C - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1332064 - SW846 3050B

MS (1202950024 S)	Source: X309058-01			Prepared: 09/19/2013 Analyzed: 09/20/2013						
Arsenic	56.2	0.517	mg/kg dry	51.7	12.9	83.7	75-125			
Barium	217	0.103	"	51.7	166	98.5	75-125			
Cadmium	49.6	0.103	"	51.7	1.12	93.8	75-125			
Chromium	84.3	0.155	"	51.7	34.1	97.1	75-125			
Lead	138	0.341	"	51.7	99.9	73.7	75-125			
Selenium	39.6	2.59	"	51.7	<2.59	76.6	75-125			
Silver	49.6	0.103	"	51.7	1.83	92.4	75-125			

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Noelle E Doyle, President

Pinyon
 9100 West Jewell Avenue, Suite 200
 Lakewood CO 80232

Brian Partington
 Project Number: [none]
 Project: I-70/Hwy 103

Metals by SW846 7471A - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1332280 - SW846 7471A Prep										
BLANK (1202950521-BLK)					Prepared: 09/19/2013 Analyzed: 09/20/2013					
Mercury	ND	0.00393	mg/kg		0		-			U
LCS (1202950522-BKS)					Prepared: 09/19/2013 Analyzed: 09/20/2013					
Mercury	0.117	0.00387	mg/kg	0.116	0	101	80-120			

Origins Laboratory, Inc.



Noelle E Doyle, President

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Pinyon
9100 West Jewell Avenue, Suite 200
Lakewood CO 80232

Brian Partington
Project Number: [none]
Project: I-70/Hwy 103

Notes and Definitions

- U Result not detected above the detection limit
- J Greater than the detection limit but less than the reporting limit
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Noelle E Doyle, President

Appendix F Origins Laboratory Water Analytical Report

October 21, 2013

Pinyon

Brian Partington

9100 West Jewell Avenue, Suite 200

Lakewood CO 80232

Project Name - I-70/US-40 at Empire Junction

Project Number - 11319101

Attached are you analytical results for I-70/US-40 at Empire Junction received by Origins Laboratory, Inc. September 30, 2013. This project is associated with Origins project number X309172-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



Pinyon
9100 West Jewell Avenue, Suite 200
Lakewood CO 80232

Brian Partington
Project Number: 11319101
Project: I-70/US-40 at Empire Junction

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
YA-B-5 (25)	X309172-01	Soil	September 26, 2013 23:30	09/30/2013 14:40
YA-B-5	X309172-02	Water	September 26, 2013 23:30	09/30/2013 14:40

Origins Laboratory, Inc.



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Noelle E Doyle, President

Pinyon
 9100 West Jewell Avenue, Suite 200
 Lakewood CO 80232

Brian Partington
 Project Number: 11319101
 Project: I-70/US-40 at Empire Junction

Origins Laboratory

F-012207-01-R1
 Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: X309170 Client: Paxin
 Client Project ID: I70/US40
 Checklist Completed by: Jesse Smith Shipped Via: H/D
 Date/time completed: 9/30/13 15:24 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: NA
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 132 °C / _____ °C / _____ °C (Describe)
 Thermometer ID: T002

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		<input checked="" type="checkbox"/>		
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity) (pH < 2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>			HCL, HNO ₃
Additional Comments (if any):				

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager)

10-08-13 15:28
 Date/Time Reviewed

Origins Laboratory, Inc.



Noelle E Doyle, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Pinyon
 9100 West Jewell Avenue, Suite 200
 Lakewood CO 80232

Brian Partington
 Project Number: 11319101
 Project: I-70/US-40 at Empire Junction

YA-B-5 (25)

9/26/2013 11:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
 X309172-01 (Soil)

Metals by SW846 3050B/6010C

Arsenic	ND	3.26	mg/kg dry	1	1335304	10/02/2013	10/03/2013	U
Barium	76.4	0.543	"	"	"	"	"	
Cadmium	ND	0.543	"	"	"	"	"	U
Chromium	35.4	0.543	"	"	"	"	"	
Lead	11.2	1.09	"	"	"	"	"	
Selenium	ND	16.3	"	5	"	"	"	U
Silver	ND	0.543	"	1	"	"	"	U

Metals by SW846 7471A

Mercury	ND	0.0143	mg/kg dry	1	1335525	"	10/03/2013	U
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pH by SW9045C

pH	7.34	0.100	SU	1	1340097		10/18/2013	H
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Origins Laboratory, Inc.



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Noelle E Doyle, President

Pinyon
 9100 West Jewell Avenue, Suite 200
 Lakewood CO 80232

Brian Partington
 Project Number: 11319101
 Project: I-70/US-40 at Empire Junction

YA-B-5

9/26/2013 11:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 X309172-02 (Water)

VOC by EPA 8260C

1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	3J02012	10/02/2013	10/03/2013	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	

Origins Laboratory, Inc.



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Noelle E Doyle, President

Pinyon
 9100 West Jewell Avenue, Suite 200
 Lakewood CO 80232

Brian Partington
 Project Number: 11319101
 Project: I-70/US-40 at Empire Junction

YA-B-5

9/26/2013 11:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 X309172-02 (Water)

VOC by EPA 8260C

1,4-Dichlorobenzene	ND	1.0	ug/L	1	3J02012	10/02/2013	10/03/2013	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	
2-Butanone	ND	5.0	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	
2-Hexanone	ND	5.0	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	
4-Isopropyltoluene	ND	1.0	"	"	"	"	"	
4-Methyl-2-pentanone	ND	5.0	"	"	"	"	"	
Acetone	ND	8.0	"	"	"	"	"	
Benzene	ND	1.0	"	"	"	"	"	
Bromobenzene	ND	1.0	"	"	"	"	"	
Bromochloromethane	ND	1.0	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	
Carbon disulfide	ND	2.0	"	"	"	"	"	
Carbon tetrachloride	ND	1.0	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	

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Noelle E Doyle, President

Pinyon
 9100 West Jewell Avenue, Suite 200
 Lakewood CO 80232

Brian Partington
 Project Number: 11319101
 Project: I-70/US-40 at Empire Junction

YA-B-5

9/26/2013 11:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 X309172-02 (Water)

VOC by EPA 8260C

Chloroform	3.94	1.0	ug/L	1	3J02012	10/02/2013	10/03/2013	
Chloromethane	ND	1.0	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	
Hexachlorobutadiene	ND	1.5	"	"	"	"	"	
Iodomethane	ND	2.0	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	
m,p-Xylene	ND	2.0	"	"	"	"	"	
Methylene Chloride	ND	5.0	"	"	"	"	"	
Methyl tert-Butyl Ether	ND	1.0	"	"	"	"	"	
Naphthalene	ND	10.0	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	

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Pinyon
 9100 West Jewell Avenue, Suite 200
 Lakewood CO 80232

Brian Partington
 Project Number: 11319101
 Project: I-70/US-40 at Empire Junction

YA-B-5

9/26/2013 11:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 X309172-02 (Water)

VOC by EPA 8260C

tert-Butylbenzene	ND	1.0	ug/L	1	3J02012	10/02/2013	10/03/2013	
Tetrachloroethene	ND	1.0	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	107 %	84-121			"	"	"	
Surrogate: Toluene-d8	105 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.6 %	84-114			"	"	"	

Origins Laboratory, Inc.



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 9100 West Jewell Avenue, Suite 200
 Lakewood CO 80232

Brian Partington
 Project Number: 11319101
 Project: I-70/US-40 at Empire Junction

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3J02012 - EPA 5030B (Water)

Blank (3J02012-BLK1)

Prepared: 10/02/2013 Analyzed: 10/03/2013

Isopropyl alcohol	ND	100	ug/L							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1-Dichloroethane	ND	1.0	"							
1,1-Dichloroethene	ND	1.0	"							
1,1-Dichloropropene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	5.0	"							
1,2,3-Trichloropropane	ND	5.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
1,2-Dibromo-3-chloropropane	ND	5.0	"							
1,2-Dibromoethane (EDB)	ND	1.0	"							
1,2-Dichlorobenzene	ND	1.0	"							
1,2-Dichloroethane	ND	1.0	"							
1,2-Dichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,3-Dichlorobenzene	ND	1.0	"							
1,3-Dichloropropane	ND	1.0	"							
1,4-Dichlorobenzene	ND	1.0	"							
2,2-Dichloropropane	ND	1.0	"							
2-Butanone	ND	5.0	"							
2-Chlorotoluene	ND	1.0	"							
2-Hexanone	ND	5.0	"							
4-Chlorotoluene	ND	1.0	"							

Origins Laboratory, Inc.



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Noelle E Doyle, President

Pinyon
 9100 West Jewell Avenue, Suite 200
 Lakewood CO 80232

Brian Partington
 Project Number: 11319101
 Project: I-70/US-40 at Empire Junction

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3J02012 - EPA 5030B (Water)

Blank (3J02012-BLK1)

Prepared: 10/02/2013 Analyzed: 10/03/2013

4-Isopropyltoluene	ND	1.0	ug/L							
4-Methyl-2-pentanone	ND	5.0	"							
Acetone	ND	8.0	"							
Benzene	ND	1.0	"							
Bromobenzene	ND	1.0	"							
Bromochloromethane	ND	1.0	"							
Bromodichloromethane	ND	1.0	"							
Bromoform	ND	1.0	"							
Bromomethane	ND	1.0	"							
Carbon disulfide	ND	2.0	"							
Carbon tetrachloride	ND	1.0	"							
Chlorobenzene	ND	1.0	"							
Chloroethane	ND	1.0	"							
Chloroform	ND	1.0	"							
Chloromethane	ND	1.0	"							
cis-1,2-Dichloroethene	ND	1.0	"							
cis-1,3-Dichloropropene	ND	1.0	"							
Dibromochloromethane	ND	1.0	"							
Dibromomethane	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Hexachlorobutadiene	ND	1.5	"							
Iodomethane	ND	2.0	"							
Isopropylbenzene	ND	1.0	"							
m,p-Xylene	ND	2.0	"							
Methylene Chloride	17.8	5.0	"							
Methyl tert-Butyl Ether	ND	1.0	"							

O-01

Origins Laboratory, Inc.



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Noelle E Doyle, President

Pinyon
 9100 West Jewell Avenue, Suite 200
 Lakewood CO 80232

Brian Partington
 Project Number: 11319101
 Project: I-70/US-40 at Empire Junction

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3J02012 - EPA 5030B (Water)

Blank (3J02012-BLK1)

Prepared: 10/02/2013 Analyzed: 10/03/2013

Naphthalene	ND	10.0	ug/L							
n-Butylbenzene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
o-Xylene	ND	1.0	"							
sec-Butylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
tert-Butylbenzene	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
Toluene	ND	1.0	"							
trans-1,2-Dichloroethene	ND	1.0	"							
trans-1,3-Dichloropropene	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5		106	84-121			
Surrogate: Toluene-d8	65		"	62.5		104	85-115			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.3	84-114			

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Noelle E Doyle, President

Pinyon
 9100 West Jewell Avenue, Suite 200
 Lakewood CO 80232

Brian Partington
 Project Number: 11319101
 Project: I-70/US-40 at Empire Junction

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3J02012 - EPA 5030B (Water)

LCS (3J02012-BS1)

Prepared: 10/02/2013 Analyzed: 10/03/2013

1,1,1,2-Tetrachloroethane	44.9	1.0	ug/L	50.0		89.8	79-130			
1,1,1-Trichloroethane	56.4	1.0	"	50.0		113	79-122			
1,1,2,2-Tetrachloroethane	48.3	1.0	"	50.0		96.6	71-117			
1,1,2-Trichloroethane	52.2	1.0	"	50.0		104	77-115			
1,1-Dichloroethane	52.7	1.0	"	50.0		105	80-117			
1,1-Dichloroethene	57.1	1.0	"	50.0		114	73-127			
1,1-Dichloropropene	54.3	1.0	"	50.0		109	78-120			
1,2,3-Trichlorobenzene	40.1	5.0	"	50.0		80.1	66-130			
1,2,3-Trichloropropane	48.8	5.0	"	50.0		97.7	65-122			
1,2,4-Trichlorobenzene	44.6	1.0	"	50.0		89.3	73-123			
1,2,4-Trimethylbenzene	48.5	1.0	"	50.0		97.1	70-125			
1,2-Dibromo-3-chloropropane	43.4	5.0	"	50.0		86.8	73-116			
1,2-Dibromoethane (EDB)	46.2	1.0	"	50.0		92.3	78-125			
1,2-Dichlorobenzene	48.6	1.0	"	50.0		97.2	82-116			
1,2-Dichloroethane	54.7	1.0	"	50.0		109	72-119			
1,2-Dichloropropane	51.3	1.0	"	50.0		103	77-115			
1,3,5-Trimethylbenzene	55.4	1.0	"	50.0		111	71-130			
1,3-Dichlorobenzene	54.7	1.0	"	50.0		109	80-118			
1,3-Dichloropropane	44.8	1.0	"	50.0		89.6	78-120			
1,4-Dichlorobenzene	49.4	1.0	"	50.0		98.9	78-117			
2,2-Dichloropropane	56.4	1.0	"	50.0		113	76-128			
2-Butanone	244	5.0	"	250		97.5	66-122			
2-Chlorotoluene	49.7	1.0	"	50.0		99.5	70-130			
2-Hexanone	219	5.0	"	250		87.6	72-118			
4-Chlorotoluene	50.0	1.0	"	50.0		99.9	72-120			
4-Isopropyltoluene	57.6	1.0	"	50.0		115	74-126			

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Brian Partington
 Project Number: 11319101
 Project: I-70/US-40 at Empire Junction

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3J02012 - EPA 5030B (Water)

LCS (3J02012-BS1)

Prepared: 10/02/2013 Analyzed: 10/03/2013

4-Methyl-2-pentanone	256	5.0	ug/L	250		103	61-120			
Acetone	267	8.0	"	250		107	68-124			
Benzene	50.6	1.0	"	50.0		101	74-130			
Bromobenzene	48.8	1.0	"	50.0		97.7	70-130			
Bromochloromethane	51.8	1.0	"	50.0		104	79-115			
Bromodichloromethane	55.6	1.0	"	50.0		111	73-123			
Bromoform	47.0	1.0	"	50.0		93.9	75-128			
Bromomethane	61.9	1.0	"	50.0		124	72-138			
Carbon disulfide	290	2.0	"	250		116	69-129			
Carbon tetrachloride	56.6	1.0	"	50.0		113	80-124			
Chlorobenzene	46.0	1.0	"	50.0		92.0	78-121			
Chloroethane	58.6	1.0	"	50.0		117	77-138			
Chloroform	51.4	1.0	"	50.0		103	75-117			
Chloromethane	54.3	1.0	"	50.0		109	72-130			
cis-1,2-Dichloroethene	53.2	1.0	"	50.0		106	78-118			
cis-1,3-Dichloropropene	52.8	1.0	"	50.0		106	73-122			
Dibromochloromethane	55.5	1.0	"	50.0		111	78-119			
Dibromomethane	51.9	1.0	"	50.0		104	79-116			
Ethylbenzene	50.1	1.0	"	50.0		100	78-130			
Hexachlorobutadiene	48.4	1.5	"	50.0		96.9	72-129			
Iodomethane	290	2.0	"	250		116	74-121			
Isopropylbenzene	50.2	1.0	"	50.0		100	75-128			
m,p-Xylene	102	2.0	"	100		102	75-134			
Methylene Chloride	72.8	5.0	"	50.0		146	84-122			O-01
Methyl tert-Butyl Ether	53.0	1.0	"	50.0		106	72-125			
Naphthalene	41.3	10.0	"	50.0		82.5	65-128			

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Brian Partington
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 Project: I-70/US-40 at Empire Junction

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3J02012 - EPA 5030B (Water)

LCS (3J02012-BS1)

Prepared: 10/02/2013 Analyzed: 10/03/2013

n-Butylbenzene	50.6	1.0	ug/L	50.0		101	69-134			
n-Propylbenzene	56.4	1.0	"	50.0		113	74-132			
o-Xylene	50.7	1.0	"	50.0		101	76-129			
sec-Butylbenzene	55.7	1.0	"	50.0		111	74-128			
Styrene	51.2	1.0	"	50.0		102	74-126			
tert-Butylbenzene	49.2	1.0	"	50.0		98.5	72-123			
Tetrachloroethene	47.1	1.0	"	50.0		94.2	78-132			
Toluene	52.2	1.0	"	50.0		104	76-128			
trans-1,2-Dichloroethene	54.9	1.0	"	50.0		110	79-120			
trans-1,3-Dichloropropene	54.4	1.0	"	50.0		109	74-122			
Trichloroethene	52.2	1.0	"	50.0		104	76-125			
Trichlorofluoromethane	61.7	1.0	"	50.0		123	66-149			
Vinyl chloride	56.0	1.0	"	50.0		112	70-137			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>69</i>		<i>"</i>	<i>62.5</i>		<i>111</i>	<i>84-121</i>			
<i>Surrogate: Toluene-d8</i>	<i>66</i>		<i>"</i>	<i>62.5</i>		<i>106</i>	<i>85-115</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>57</i>		<i>"</i>	<i>62.5</i>		<i>91.6</i>	<i>84-114</i>			

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Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3J02012 - EPA 5030B (Water)

Matrix Spike (3J02012-MS1)	Source: X309169-01			Prepared: 10/02/2013 Analyzed: 10/03/2013						
1,1,1,2-Tetrachloroethane	46.8	1.0	ug/L	50.0	ND	93.7	82-130			
1,1,1-Trichloroethane	56.0	1.0	"	50.0	ND	112	81-125			
1,1,2,2-Tetrachloroethane	48.4	1.0	"	50.0	ND	96.8	74-120			
1,1,2-Trichloroethane	50.3	1.0	"	50.0	ND	101	80-118			
1,1-Dichloroethane	53.6	1.0	"	50.0	ND	107	79-120			
1,1-Dichloroethene	57.5	1.0	"	50.0	ND	115	73-130			
1,1-Dichloropropene	53.0	1.0	"	50.0	ND	106	77-124			
1,2,3-Trichlorobenzene	40.1	5.0	"	50.0	ND	80.3	55-144			
1,2,3-Trichloropropane	49.2	5.0	"	50.0	ND	98.4	67-126			
1,2,4-Trichlorobenzene	42.9	1.0	"	50.0	ND	85.8	56-141			
1,2,4-Trimethylbenzene	49.6	1.0	"	50.0	ND	99.3	62-132			
1,2-Dibromo-3-chloropropane	43.2	5.0	"	50.0	ND	86.5	56-142			
1,2-Dibromoethane (EDB)	47.8	1.0	"	50.0	ND	95.5	84-124			
1,2-Dichlorobenzene	47.6	1.0	"	50.0	ND	95.3	74-124			
1,2-Dichloroethane	52.9	1.0	"	50.0	ND	106	76-120			
1,2-Dichloropropane	51.2	1.0	"	50.0	ND	102	78-117			
1,3,5-Trimethylbenzene	54.6	1.0	"	50.0	ND	109	64-138			
1,3-Dichlorobenzene	54.4	1.0	"	50.0	ND	109	73-126			
1,3-Dichloropropane	45.9	1.0	"	50.0	ND	91.8	83-120			
1,4-Dichlorobenzene	48.9	1.0	"	50.0	ND	97.8	64-130			
2,2-Dichloropropane	54.8	1.0	"	50.0	ND	110	77-129			
2-Butanone	232	5.0	"	250	2.2	91.8	66-128			
2-Chlorotoluene	50.5	1.0	"	50.0	ND	101	71-130			
2-Hexanone	222	5.0	"	250	0.6	88.5	74-123			
4-Chlorotoluene	50.2	1.0	"	50.0	ND	100	66-128			
4-Isopropyltoluene	57.2	1.0	"	50.0	ND	114	60-140			

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Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3J02012 - EPA 5030B (Water)

Matrix Spike (3J02012-MS1)	Source: X309169-01			Prepared: 10/02/2013 Analyzed: 10/03/2013						
4-Methyl-2-pentanone	252	5.0	ug/L	250	1.5	100	65-125			
Acetone	257	8.0	"	250	12.8	97.7	63-134			
Benzene	52.5	1.0	"	50.0	ND	105	74-130			
Bromobenzene	50.5	1.0	"	50.0	ND	101	70-130			
Bromochloromethane	51.2	1.0	"	50.0	ND	102	80-118			
Bromodichloromethane	54.6	1.0	"	50.0	0.2	109	76-122			
Bromoform	48.9	1.0	"	50.0	ND	97.8	80-128			
Bromomethane	65.4	1.0	"	50.0	ND	131	69-144			
Carbon disulfide	297	2.0	"	250	ND	119	70-131			
Carbon tetrachloride	55.3	1.0	"	50.0	ND	111	81-130			
Chlorobenzene	47.6	1.0	"	50.0	ND	95.2	72-128			
Chloroethane	61.6	1.0	"	50.0	ND	123	79-140			
Chloroform	51.5	1.0	"	50.0	1.2	100	76-118			
Chloromethane	57.3	1.0	"	50.0	ND	115	72-128			
cis-1,2-Dichloroethene	52.5	1.0	"	50.0	ND	105	78-120			
cis-1,3-Dichloropropene	52.2	1.0	"	50.0	ND	104	79-120			
Dibromochloromethane	54.2	1.0	"	50.0	ND	108	81-121			
Dibromomethane	50.8	1.0	"	50.0	ND	102	84-115			
Ethylbenzene	53.0	1.0	"	50.0	ND	106	76-132			
Hexachlorobutadiene	46.9	1.5	"	50.0	ND	93.8	70-130			
Iodomethane	295	2.0	"	250	ND	118	72-127			
Isopropylbenzene	51.9	1.0	"	50.0	ND	104	66-135			
m,p-Xylene	106	2.0	"	100	ND	106	69-139			
Methylene Chloride	53.8	5.0	"	50.0	ND	108	87-118			
Methyl tert-Butyl Ether	51.4	1.0	"	50.0	ND	103	62-138			
Naphthalene	39.9	10.0	"	50.0	0.2	79.4	59-148			

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Brian Partington
 Project Number: 11319101
 Project: I-70/US-40 at Empire Junction

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3J02012 - EPA 5030B (Water)

Matrix Spike (3J02012-MS1)	Source: X309169-01			Prepared: 10/02/2013 Analyzed: 10/03/2013						
n-Butylbenzene	49.5	1.0	ug/L	50.0	ND	98.9	52-146			
n-Propylbenzene	57.2	1.0	"	50.0	ND	114	66-141			
o-Xylene	51.8	1.0	"	50.0	ND	104	74-131			
sec-Butylbenzene	55.4	1.0	"	50.0	ND	111	63-138			
Styrene	52.5	1.0	"	50.0	ND	105	72-128			
tert-Butylbenzene	49.8	1.0	"	50.0	ND	99.5	67-129			
Tetrachloroethene	48.8	1.0	"	50.0	ND	97.6	76-134			
Toluene	52.2	1.0	"	50.0	0.3	104	73-131			
trans-1,2-Dichloroethene	54.1	1.0	"	50.0	ND	108	78-123			
trans-1,3-Dichloropropene	52.7	1.0	"	50.0	ND	105	75-125			
Trichloroethene	52.4	1.0	"	50.0	ND	105	73-131			
Trichlorofluoromethane	62.4	1.0	"	50.0	ND	125	83-141			
Vinyl chloride	59.6	1.0	"	50.0	ND	119	73-139			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>67</i>		<i>"</i>	<i>62.5</i>		<i>108</i>	<i>84-121</i>			
<i>Surrogate: Toluene-d8</i>	<i>66</i>		<i>"</i>	<i>62.5</i>		<i>106</i>	<i>85-115</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>59</i>		<i>"</i>	<i>62.5</i>		<i>94.5</i>	<i>84-114</i>			

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Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3J02012 - EPA 5030B (Water)

Matrix Spike Dup (3J02012-MSD1)	Source: X309169-01			Prepared: 10/02/2013 Analyzed: 10/03/2013						
1,1,1,2-Tetrachloroethane	46.4	1.0	ug/L	50.0	ND	92.9	82-130	0.858	20	
1,1,1-Trichloroethane	55.0	1.0	"	50.0	ND	110	81-125	1.80	20	
1,1,2,2-Tetrachloroethane	47.6	1.0	"	50.0	ND	95.2	74-120	1.69	20	
1,1,2-Trichloroethane	51.1	1.0	"	50.0	ND	102	80-118	1.66	20	
1,1-Dichloroethane	53.1	1.0	"	50.0	ND	106	79-120	0.900	20	
1,1-Dichloroethene	56.8	1.0	"	50.0	ND	114	73-130	1.17	20	
1,1-Dichloropropene	52.8	1.0	"	50.0	ND	106	77-124	0.492	20	
1,2,3-Trichlorobenzene	41.5	5.0	"	50.0	ND	83.1	55-144	3.40	20	
1,2,3-Trichloropropane	47.8	5.0	"	50.0	ND	95.5	67-126	2.95	20	
1,2,4-Trichlorobenzene	43.6	1.0	"	50.0	ND	87.2	56-141	1.64	20	
1,2,4-Trimethylbenzene	48.9	1.0	"	50.0	ND	97.8	62-132	1.54	20	
1,2-Dibromo-3-chloropropane	42.0	5.0	"	50.0	ND	84.1	56-142	2.84	20	
1,2-Dibromoethane (EDB)	49.1	1.0	"	50.0	ND	98.2	84-124	2.73	20	
1,2-Dichlorobenzene	47.9	1.0	"	50.0	ND	95.8	74-124	0.502	20	
1,2-Dichloroethane	51.9	1.0	"	50.0	ND	104	76-120	1.95	20	
1,2-Dichloropropane	51.2	1.0	"	50.0	ND	102	78-117	0.0781	20	
1,3,5-Trimethylbenzene	54.0	1.0	"	50.0	ND	108	64-138	1.07	20	
1,3-Dichlorobenzene	53.6	1.0	"	50.0	ND	107	73-126	1.63	20	
1,3-Dichloropropane	46.4	1.0	"	50.0	ND	92.8	83-120	1.17	20	
1,4-Dichlorobenzene	48.7	1.0	"	50.0	ND	97.4	64-130	0.410	20	
2,2-Dichloropropane	53.7	1.0	"	50.0	ND	107	77-129	2.19	20	
2-Butanone	231	5.0	"	250	2.2	91.6	66-128	0.203	20	
2-Chlorotoluene	50.8	1.0	"	50.0	ND	102	71-130	0.553	20	
2-Hexanone	221	5.0	"	250	0.6	88.2	74-123	0.325	20	
4-Chlorotoluene	50.5	1.0	"	50.0	ND	101	66-128	0.656	20	
4-Isopropyltoluene	56.5	1.0	"	50.0	ND	113	60-140	1.25	20	

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Brian Partington
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Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3J02012 - EPA 5030B (Water)

Matrix Spike Dup (3J02012-MSD1)	Source: X309169-01			Prepared: 10/02/2013 Analyzed: 10/03/2013						
4-Methyl-2-pentanone	253	5.0	ug/L	250	1.5	100	65-125	0.0475	20	
Acetone	253	8.0	"	250	12.8	96.2	63-134	1.45	20	
Benzene	52.2	1.0	"	50.0	ND	104	74-130	0.535	20	
Bromobenzene	50.0	1.0	"	50.0	ND	99.9	70-130	1.08	20	
Bromochloromethane	50.8	1.0	"	50.0	ND	102	80-118	0.961	20	
Bromodichloromethane	54.3	1.0	"	50.0	0.2	108	76-122	0.496	20	
Bromoform	46.8	1.0	"	50.0	ND	93.5	80-128	4.52	20	
Bromomethane	63.6	1.0	"	50.0	ND	127	69-144	2.85	20	
Carbon disulfide	293	2.0	"	250	ND	117	70-131	1.19	20	
Carbon tetrachloride	54.0	1.0	"	50.0	ND	108	81-130	2.45	20	
Chlorobenzene	48.2	1.0	"	50.0	ND	96.3	72-128	1.15	20	
Chloroethane	61.2	1.0	"	50.0	ND	122	79-140	0.635	20	
Chloroform	51.4	1.0	"	50.0	1.2	100	76-118	0.194	20	
Chloromethane	54.9	1.0	"	50.0	ND	110	72-128	4.32	20	
cis-1,2-Dichloroethene	52.7	1.0	"	50.0	ND	105	78-120	0.380	20	
cis-1,3-Dichloropropene	51.9	1.0	"	50.0	ND	104	79-120	0.538	20	
Dibromochloromethane	53.3	1.0	"	50.0	ND	107	81-121	1.62	20	
Dibromomethane	50.4	1.0	"	50.0	ND	101	84-115	0.909	20	
Ethylbenzene	52.9	1.0	"	50.0	ND	106	76-132	0.340	20	
Hexachlorobutadiene	47.5	1.5	"	50.0	ND	95.0	70-130	1.25	20	
Iodomethane	294	2.0	"	250	ND	118	72-127	0.404	20	
Isopropylbenzene	52.8	1.0	"	50.0	ND	106	66-135	1.76	20	
m,p-Xylene	105	2.0	"	100	ND	105	69-139	1.25	20	
Methylene Chloride	55.5	5.0	"	50.0	ND	111	87-118	3.04	20	
Methyl tert-Butyl Ether	51.4	1.0	"	50.0	ND	103	62-138	0.156	20	
Naphthalene	40.2	10.0	"	50.0	0.2	80.0	59-148	0.748	20	

Origins Laboratory, Inc.



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Noelle E Doyle, President

Pinyon
 9100 West Jewell Avenue, Suite 200
 Lakewood CO 80232

Brian Partington
 Project Number: 11319101
 Project: I-70/US-40 at Empire Junction

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3J02012 - EPA 5030B (Water)

Matrix Spike Dup (3J02012-MSD1)	Source: X309169-01			Prepared: 10/02/2013 Analyzed: 10/03/2013						
n-Butylbenzene	49.0	1.0	ug/L	50.0	ND	98.0	52-146	0.975	20	
n-Propylbenzene	56.9	1.0	"	50.0	ND	114	66-141	0.473	20	
o-Xylene	52.2	1.0	"	50.0	ND	104	74-131	0.846	20	
sec-Butylbenzene	54.3	1.0	"	50.0	ND	109	63-138	2.00	20	
Styrene	53.2	1.0	"	50.0	ND	106	72-128	1.33	20	
tert-Butylbenzene	48.9	1.0	"	50.0	ND	97.7	67-129	1.80	20	
Tetrachloroethene	47.8	1.0	"	50.0	ND	95.6	76-134	2.05	20	
Toluene	53.6	1.0	"	50.0	0.3	107	73-131	2.74	20	
trans-1,2-Dichloroethene	54.0	1.0	"	50.0	ND	108	78-123	0.0555	20	
trans-1,3-Dichloropropene	53.4	1.0	"	50.0	ND	107	75-125	1.40	20	
Trichloroethene	52.2	1.0	"	50.0	ND	104	73-131	0.363	20	
Trichlorofluoromethane	60.3	1.0	"	50.0	ND	121	83-141	3.34	20	
Vinyl chloride	57.6	1.0	"	50.0	ND	115	73-139	3.33	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>66</i>		<i>"</i>	<i>62.5</i>		<i>105</i>	<i>84-121</i>			
<i>Surrogate: Toluene-d8</i>	<i>67</i>		<i>"</i>	<i>62.5</i>		<i>108</i>	<i>85-115</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>60</i>		<i>"</i>	<i>62.5</i>		<i>96.3</i>	<i>84-114</i>			

Origins Laboratory, Inc.



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Pinyon
 9100 West Jewell Avenue, Suite 200
 Lakewood CO 80232

Brian Partington
 Project Number: 11319101
 Project: I-70/US-40 at Empire Junction

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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pH by SW9045C - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1340097 -

LCS (1202969952-BKS)

Prepared: Analyzed: 10/18/2013

pH	6.98	0.010	SU	7.00	0	99.7	99-101			
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DUP (1202969953 D)

Source: X309172-01

Prepared: Analyzed: 10/18/2013

pH	7.28	0.010	SU		7.34		0-10	0.821	10	H
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Pinyon
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 Lakewood CO 80232

Brian Partington
 Project Number: 11319101
 Project: I-70/US-40 at Empire Junction

Metals by SW846 3050B/6010C - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1335304 - SW846 3050B

BLANK (1202958156-BLK)

Prepared: 10/02/2013 Analyzed: 10/03/2013

Silver	ND	0.0988	mg/kg		0		-			U
Arsenic	ND	0.494	"		0		-			U
Barium	ND	0.0988	"		0		-			U
Cadmium	ND	0.0988	"		0		-			U
Chromium	ND	0.148	"		0		-			U
Lead	ND	0.326	"		0		-			U
Selenium	ND	0.494	"		0		-			U

LCS (1202958157-BKS)

Prepared: 10/02/2013 Analyzed: 10/03/2013

Selenium	50.2	0.481	mg/kg	48.1	0	104	80-120			
Lead	49.4	0.317	"	48.1	0	103	80-120			
Chromium	46.8	0.144	"	48.1	0	97.3	80-120			
Cadmium	47.8	0.0962	"	48.1	0	99.4	80-120			
Arsenic	47.9	0.481	"	48.1	0	99.7	80-120			
Silver	47.8	0.0962	"	48.1	0	99.5	80-120			
Barium	47.2	0.0962	"	48.1	0	98.2	80-120			

DUP (1202958158 D)

Source: 334367001

Prepared: 10/02/2013 Analyzed: 10/03/2013

Lead	10.4	0.320	mg/kg dry		15.7		0-20	40.5	20	
Silver	ND	0.0971	"		<0.0971		0-20	13.1	20	U
Selenium	ND	0.485	"		<0.485		0-20	16.7	20	U
Chromium	6.17	0.146	"		6.80		0-20	9.73	20	
Cadmium	ND	0.0971	"		<0.0971		0-20	5.05	20	U
Arsenic	1.27	0.485	"		1.16		0-20	9.21	20	J
Barium	80.7	0.0971	"		76.3		0-20	5.50	20	

MS (1202958159 S)

Source: 334367001

Prepared: 10/02/2013 Analyzed: 10/03/2013

Origins Laboratory, Inc.



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Noelle E Doyle, President

Pinyon
 9100 West Jewell Avenue, Suite 200
 Lakewood CO 80232

Brian Partington
 Project Number: 11319101
 Project: I-70/US-40 at Empire Junction

Metals by SW846 3050B/6010C - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1335304 - SW846 3050B

MS (1202958159 S)	Source: 334367001			Prepared: 10/02/2013 Analyzed: 10/03/2013						
Arsenic	46.6	0.449	mg/kg dry	44.9	1.16	101	75-125			
Barium	125	0.0898	"	44.9	76.3	107	75-125			
Cadmium	45.0	0.0898	"	44.9	<0.0898	100	75-125			
Chromium	51.4	0.135	"	44.9	6.80	99.4	75-125			
Lead	55.9	0.296	"	44.9	15.7	89.5	75-125			
Selenium	43.8	0.449	"	44.9	<0.449	97.6	75-125			
Silver	46.1	0.0898	"	44.9	<0.0898	103	75-125			

Origins Laboratory, Inc.



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Noelle E Doyle, President

Pinyon
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 Lakewood CO 80232

Brian Partington
 Project Number: 11319101
 Project: I-70/US-40 at Empire Junction

Metals by SW846 7471A - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1335525 - SW846 7471A Prep										
BLANK (1202958702-BLK)					Prepared: 10/02/2013 Analyzed: 10/03/2013					
Mercury	ND	0.00402	mg/kg		0		-			U
LCS (1202958703-BKS)					Prepared: 10/02/2013 Analyzed: 10/03/2013					
Mercury	6.95	0.193	mg/kg	7.69	0	90.4	71.4-129			

Origins Laboratory, Inc.



Noelle E Doyle, President

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Pinyon
9100 West Jewell Avenue, Suite 200
Lakewood CO 80232

Brian Partington
Project Number: 11319101
Project: I-70/US-40 at Empire Junction

Notes and Definitions

- U Result not detected above the detection limit
- O-01 This compound is a common laboratory contaminant.
- J Greater than the detection limit but less than the reporting limit
- H Holding time exceeded
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference

Origins Laboratory, Inc.



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Noelle E Doyle, President

March 04, 2014

Pinyon

Brian Partington

9100 West Jewell Avenue, Suite 200

Lakewood CO 80232

Project Name - PPSL

Project Number - 11319101

Attached are your analytical results for PPSL received by Origins Laboratory, Inc. February 18, 2014. This project is associated with Origins project number X402136-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



Pinyon
9100 West Jewell Avenue, Suite 200
Lakewood CO 80232

Brian Partington
Project Number: 11319101
Project: PPSL

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
YA-B-1	X402136-01	Water	February 18, 2014 11:40	02/18/2014 13:45

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Noelle Doyle Mathis, President

Pinyon
 9100 West Jewell Avenue, Suite 200
 Lakewood CO 80232

Brian Partington
 Project Number: 11319101
 Project: PPSL

Origins Laboratory

F-012207-01-R1
 Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: X-102136 Client: PINYON
 Client Project ID: PPSL
 Checklist Completed by: JP Shipped Via: H/D
 Date/time completed: 2/18/14 1408 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: _____
 Matrix(s) Received: (Check all that apply) _____ Soil/Solid Water _____ Other: _____ (Describe)
 Cooler Number/Temperature: _____ / _____ °C / _____ °C / _____ °C / _____ °C
 Thermometer ID: T002

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		✓		SAMPLED TODAY
Is there ice present (document if blue ice is used)	✓			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		✓		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		✓		
Were all samples received intact ⁽¹⁾ ?	✓			
Was adequate sample volume provided ⁽¹⁾ ?	✓			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		✓		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	✓			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	✓			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	✓			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	✓			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		✓		
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity) / (pH < 2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	✓			ACC RCA-VP
Additional Comments (if any):				

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

[Signature] 2/13/14 1528
 Reviewed by (Project Manager) Date/Time Reviewed

Origins Laboratory, Inc.



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Pinyon
 9100 West Jewell Avenue, Suite 200
 Lakewood CO 80232

Brian Partington
 Project Number: 11319101
 Project: PPSL

YA-B-1

2/18/2014 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
 X402136-01 (Water)

Metals by SW846 3005A/6010C

Arsenic	0.0233	0.030	mg/L	1	1367812	02/20/2014	02/24/2014	J
Barium	0.798	0.005	"	"	"	"	"	
Cadmium	0.00704	0.005	"	"	"	"	"	
Chromium	0.105	0.005	"	"	"	"	"	
Lead	0.139	0.010	"	"	"	"	"	
Selenium	0.00682	0.030	"	"	"	"	"	J
Silver	ND	0.005	"	"	"	"	"	U

Metals by SW846 7470A

Mercury	ND	0.0002	mg/L	1	1367806	"	02/21/2014	U
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VOC by EPA 8260C

1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	4B18007	02/18/2014	02/18/2014	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	

Origins Laboratory, Inc.



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Pinyon
 9100 West Jewell Avenue, Suite 200
 Lakewood CO 80232

Brian Partington
 Project Number: 11319101
 Project: PPSL

YA-B-1

2/18/2014 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 X402136-01 (Water)

VOC by EPA 8260C

1,2,3-Trichloropropane	ND	5.0	ug/L	1	4B18007	02/18/2014	02/18/2014	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	
2-Butanone	17	5.0	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	
2-Hexanone	ND	5.0	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	
4-Isopropyltoluene	ND	1.0	"	"	"	"	"	
4-Methyl-2-pentanone	ND	5.0	"	"	"	"	"	
Acetone	78	8.0	"	"	"	"	"	

Origins Laboratory, Inc.



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 Lakewood CO 80232

Brian Partington
 Project Number: 11319101
 Project: PPSL

YA-B-1

2/18/2014 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 X402136-01 (Water)

VOC by EPA 8260C

Benzene	1.6	1.0	ug/L	1	4B18007	02/18/2014	02/18/2014	
Bromobenzene	ND	1.0	"	"	"	"	"	
Bromochloromethane	ND	1.0	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	
Carbon disulfide	ND	2.0	"	"	"	"	"	
Carbon tetrachloride	ND	1.0	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	
Chloromethane	2.6	1.0	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	
Hexachlorobutadiene	ND	1.5	"	"	"	"	"	
Iodomethane	ND	2.0	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	

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 Lakewood CO 80232

Brian Partington
 Project Number: 11319101
 Project: PPSL

YA-B-1

2/18/2014 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 X402136-01 (Water)

VOC by EPA 8260C

m,p-Xylene	ND	2.0	ug/L	1	4B18007	02/18/2014	02/18/2014	
Methylene Chloride	ND	5.0	"	"	"	"	"	
Methyl tert-Butyl Ether	ND	1.0	"	"	"	"	"	
Naphthalene	ND	10	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	
Styrene	3.4	1.0	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	87.4 %	84-121			"	"	"	
Surrogate: Toluene-d8	106 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	86.3 %	84-114			"	"	"	

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 Project Number: 11319101
 Project: PPSL

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4B18007 - EPA 5030B (Water)

Blank (4B18007-BLK1)

Prepared: 02/18/2014 Analyzed: 02/18/2014

1,1,1,2-Tetrachloroethane	ND	1.0	ug/L							
1,1,1-Trichloroethane	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1-Dichloroethane	ND	1.0	"							
1,1-Dichloroethene	ND	1.0	"							
1,1-Dichloropropene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	5.0	"							
1,2,3-Trichloropropane	ND	5.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
1,2-Dibromo-3-chloropropane	ND	5.0	"							
1,2-Dibromoethane (EDB)	ND	1.0	"							
1,2-Dichlorobenzene	ND	1.0	"							
1,2-Dichloroethane	ND	1.0	"							
1,2-Dichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,3-Dichlorobenzene	ND	1.0	"							
1,3-Dichloropropane	ND	1.0	"							
1,4-Dichlorobenzene	ND	1.0	"							
2,2-Dichloropropane	ND	1.0	"							
2-Butanone	ND	5.0	"							
2-Chlorotoluene	ND	1.0	"							
2-Hexanone	ND	5.0	"							
4-Chlorotoluene	ND	1.0	"							
4-Isopropyltoluene	ND	1.0	"							

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Pinyon
 9100 West Jewell Avenue, Suite 200
 Lakewood CO 80232

Brian Partington
 Project Number: 11319101
 Project: PPSL

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4B18007 - EPA 5030B (Water)

Blank (4B18007-BLK1)

Prepared: 02/18/2014 Analyzed: 02/18/2014

4-Methyl-2-pentanone	ND	5.0	ug/L							
Acetone	ND	8.0	"							
Benzene	ND	1.0	"							
Bromobenzene	ND	1.0	"							
Bromochloromethane	ND	1.0	"							
Bromodichloromethane	ND	1.0	"							
Bromoform	ND	1.0	"							
Bromomethane	ND	1.0	"							
Carbon disulfide	ND	2.0	"							
Carbon tetrachloride	ND	1.0	"							
Chlorobenzene	ND	1.0	"							
Chloroethane	ND	1.0	"							
Chloroform	ND	1.0	"							
Chloromethane	ND	1.0	"							
cis-1,2-Dichloroethene	ND	1.0	"							
cis-1,3-Dichloropropene	ND	1.0	"							
Dibromochloromethane	ND	1.0	"							
Dibromomethane	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Hexachlorobutadiene	ND	1.5	"							
Iodomethane	ND	2.0	"							
Isopropylbenzene	ND	1.0	"							
m,p-Xylene	ND	2.0	"							
Methylene Chloride	ND	5.0	"							
Methyl tert-Butyl Ether	ND	1.0	"							
Naphthalene	ND	10	"							

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Brian Partington
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 Project: PPSL

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4B18007 - EPA 5030B (Water)

Blank (4B18007-BLK1)

Prepared: 02/18/2014 Analyzed: 02/18/2014

n-Butylbenzene	ND	1.0	ug/L							
n-Propylbenzene	ND	1.0	"							
o-Xylene	ND	1.0	"							
sec-Butylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
tert-Butylbenzene	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
Toluene	ND	1.0	"							
trans-1,2-Dichloroethene	ND	1.0	"							
trans-1,3-Dichloropropene	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	52		"	62.5	82.4		84-121			S-GC
Surrogate: Toluene-d8	62		"	62.5	99.2		85-115			
Surrogate: 4-Bromofluorobenzene	56		"	62.5	89.2		84-114			

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Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4B18007 - EPA 5030B (Water)

LCS (4B18007-BS1)

Prepared: 02/18/2014 Analyzed: 02/18/2014

1,1,1,2-Tetrachloroethane	42	1.0	ug/L	50.0		83.6	78.8-128			
1,1,1-Trichloroethane	54	1.0	"	50.0		109	82.3-118			
1,1,2,2-Tetrachloroethane	51	1.0	"	50.0		102	67.9-119			
1,1,2-Trichloroethane	56	1.0	"	50.0		112	75.4-116			
1,1-Dichloroethane	52	1.0	"	50.0		104	81.1-113			
1,1-Dichloroethene	42	1.0	"	50.0		83.3	79.4-118			
1,1-Dichloropropene	54	1.0	"	50.0		107	78-120			
1,2,3-Trichlorobenzene	55	5.0	"	50.0		110	63.8-134			
1,2,3-Trichloropropane	52	5.0	"	50.0		104	63.3-121			
1,2,4-Trichlorobenzene	55	1.0	"	50.0		110	70.4-125			
1,2,4-Trimethylbenzene	55	1.0	"	50.0		111	73.3-123			
1,2-Dibromo-3-chloropropane	56	5.0	"	50.0		111	71.6-114			
1,2-Dibromoethane (EDB)	49	1.0	"	50.0		98.5	74.7-127			
1,2-Dichlorobenzene	53	1.0	"	50.0		106	81.3-116			
1,2-Dichloroethane	54	1.0	"	50.0		109	71.1-120			
1,2-Dichloropropane	55	1.0	"	50.0		110	77.4-115			
1,3,5-Trimethylbenzene	54	1.0	"	50.0		109	71.9-128			
1,3-Dichlorobenzene	59	1.0	"	50.0		118	82.1-117			QM-11
1,3-Dichloropropane	48	1.0	"	50.0		96.7	75.1-123			
1,4-Dichlorobenzene	53	1.0	"	50.0		106	76.8-119			
2,2-Dichloropropane	55	1.0	"	50.0		110	84-120			
2-Butanone	260	5.0	"	250		103	64.9-123			
2-Chlorotoluene	53	1.0	"	50.0		106	66-133			
2-Hexanone	250	5.0	"	250		98.9	70.9-116			
4-Chlorotoluene	54	1.0	"	50.0		107	73.2-119			
4-Isopropyltoluene	60	1.0	"	50.0		121	79.8-120			QM-11

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Brian Partington
 Project Number: 11319101
 Project: PPSL

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4B18007 - EPA 5030B (Water)

LCS (4B18007-BS1)

Prepared: 02/18/2014 Analyzed: 02/18/2014

4-Methyl-2-pentanone	280	5.0	ug/L	250		112	58.5-122			
Acetone	220	8.0	"	250		88.8	65.4-125			
Benzene	53	1.0	"	50.0		106	75.5-116			
Bromobenzene	52	1.0	"	50.0		103	70-130			
Bromochloromethane	54	1.0	"	50.0		107	79-115			
Bromodichloromethane	57	1.0	"	50.0		114	73-123			
Bromoform	41	1.0	"	50.0		82.2	75-128			
Bromomethane	54	1.0	"	50.0		107	72-138			
Carbon disulfide	160	2.0	"	250		63.1	69-129			QM-11
Carbon tetrachloride	55	1.0	"	50.0		110	80-124			
Chlorobenzene	49	1.0	"	50.0		99.0	78-121			
Chloroethane	56	1.0	"	50.0		112	77-138			
Chloroform	52	1.0	"	50.0		104	75-117			
Chloromethane	58	1.0	"	50.0		117	72-130			
cis-1,2-Dichloroethene	55	1.0	"	50.0		111	78-118			
cis-1,3-Dichloropropene	57	1.0	"	50.0		115	73-122			
Dibromochloromethane	57	1.0	"	50.0		114	78-119			
Dibromomethane	56	1.0	"	50.0		112	79-116			
Ethylbenzene	52	1.0	"	50.0		103	78-130			
Hexachlorobutadiene	56	1.5	"	50.0		112	72-129			
Iodomethane	210	2.0	"	250		82.8	74-121			
Isopropylbenzene	52	1.0	"	50.0		104	75-128			
m,p-Xylene	110	2.0	"	100		106	75-134			
Methylene Chloride	49	5.0	"	50.0		97.0	84-122			
Methyl tert-Butyl Ether	53	1.0	"	50.0		106	72-125			
Naphthalene	52	10	"	50.0		105	65-128			

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Brian Partington
 Project Number: 11319101
 Project: PPSL

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4B18007 - EPA 5030B (Water)

LCS (4B18007-BS1)

Prepared: 02/18/2014 Analyzed: 02/18/2014

n-Butylbenzene	57	1.0	ug/L	50.0		114	69-134			
n-Propylbenzene	54	1.0	"	50.0		109	74-132			
o-Xylene	52	1.0	"	50.0		105	76-129			
sec-Butylbenzene	55	1.0	"	50.0		110	74-128			
Styrene	44	1.0	"	50.0		87.3	74-126			
tert-Butylbenzene	53	1.0	"	50.0		106	72-123			
Tetrachloroethene	48	1.0	"	50.0		97.0	78-132			
Toluene	56	1.0	"	50.0		112	76-128			
trans-1,2-Dichloroethene	50	1.0	"	50.0		100	79-120			
trans-1,3-Dichloropropene	58	1.0	"	50.0		116	74-122			
Trichloroethene	54	1.0	"	50.0		107	76-125			
Trichlorofluoromethane	50	1.0	"	50.0		99.9	66-149			
Vinyl chloride	58	1.0	"	50.0		116	70-137			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>66</i>		<i>"</i>	<i>62.5</i>		<i>105</i>	<i>84-121</i>			
<i>Surrogate: Toluene-d8</i>	<i>66</i>		<i>"</i>	<i>62.5</i>		<i>105</i>	<i>85-115</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>60</i>		<i>"</i>	<i>62.5</i>		<i>96.7</i>	<i>84-114</i>			

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Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4B18007 - EPA 5030B (Water)

Matrix Spike (4B18007-MS1)	Source: X402133-01			Prepared: 02/18/2014 Analyzed: 02/18/2014						
1,1,1,2-Tetrachloroethane	48	1.0	ug/L	50.0	ND	96.2	82-130			
1,1,1-Trichloroethane	61	1.0	"	50.0	0.2	121	81-125			
1,1,2,2-Tetrachloroethane	57	1.0	"	50.0	ND	113	74-120			
1,1,2-Trichloroethane	59	1.0	"	50.0	ND	119	80-118			QM-05
1,1-Dichloroethane	61	1.0	"	50.0	1.8	119	79-120			
1,1-Dichloroethene	47	1.0	"	50.0	ND	93.1	73-130			
1,1-Dichloropropene	61	1.0	"	50.0	ND	121	77-124			
1,2,3-Trichlorobenzene	56	5.0	"	50.0	0.9	110	55-144			
1,2,3-Trichloropropane	58	5.0	"	50.0	ND	115	67-126			
1,2,4-Trichlorobenzene	59	1.0	"	50.0	0.2	118	56-141			
1,2,4-Trimethylbenzene	63	1.0	"	50.0	ND	126	62-132			
1,2-Dibromo-3-chloropropane	60	5.0	"	50.0	ND	121	56-142			
1,2-Dibromoethane (EDB)	55	1.0	"	50.0	ND	110	84-124			
1,2-Dichlorobenzene	59	1.0	"	50.0	ND	118	74-124			
1,2-Dichloroethane	59	1.0	"	50.0	ND	118	76-120			
1,2-Dichloropropane	60	1.0	"	50.0	ND	120	78-117			QM-05
1,3,5-Trimethylbenzene	63	1.0	"	50.0	ND	126	64-138			
1,3-Dichlorobenzene	67	1.0	"	50.0	ND	134	73-126			QM-05
1,3-Dichloropropane	55	1.0	"	50.0	ND	109	83-120			
1,4-Dichlorobenzene	60	1.0	"	50.0	ND	120	64-130			
2,2-Dichloropropane	60	1.0	"	50.0	ND	120	77-129			
2-Butanone	270	5.0	"	250	ND	109	66-128			
2-Chlorotoluene	61	1.0	"	50.0	ND	123	71-130			
2-Hexanone	280	5.0	"	250	ND	111	74-123			
4-Chlorotoluene	62	1.0	"	50.0	ND	124	66-128			
4-Isopropyltoluene	69	1.0	"	50.0	ND	139	60-140			

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 Project: PPSL

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4B18007 - EPA 5030B (Water)

Matrix Spike (4B18007-MS1)	Source: X402133-01			Prepared: 02/18/2014 Analyzed: 02/18/2014						
4-Methyl-2-pentanone	300	5.0	ug/L	250	0.1	119	65-125			
Acetone	270	8.0	"	250	ND	109	63-134			
Benzene	59	1.0	"	50.0	ND	118	74-130			
Bromobenzene	59	1.0	"	50.0	ND	118	70-130			
Bromochloromethane	60	1.0	"	50.0	ND	120	80-118			QM-05
Bromodichloromethane	61	1.0	"	50.0	ND	123	76-122			QM-05
Bromoform	46	1.0	"	50.0	ND	91.6	80-128			
Bromomethane	57	1.0	"	50.0	ND	115	69-144			
Carbon disulfide	180	2.0	"	250	ND	70.0	70-131			
Carbon tetrachloride	61	1.0	"	50.0	ND	122	81-130			
Chlorobenzene	56	1.0	"	50.0	ND	113	72-128			
Chloroethane	60	1.0	"	50.0	ND	121	79-140			
Chloroform	58	1.0	"	50.0	0.2	117	76-118			
Chloromethane	63	1.0	"	50.0	ND	126	72-128			
cis-1,2-Dichloroethene	62	1.0	"	50.0	0.2	124	78-120			QM-05
cis-1,3-Dichloropropene	61	1.0	"	50.0	ND	122	79-120			QM-05
Dibromochloromethane	59	1.0	"	50.0	ND	118	81-121			
Dibromomethane	59	1.0	"	50.0	ND	119	84-115			QM-05
Ethylbenzene	60	1.0	"	50.0	ND	120	76-132			
Hexachlorobutadiene	61	1.5	"	50.0	ND	122	70-130			
Iodomethane	230	2.0	"	250	ND	91.6	72-127			
Isopropylbenzene	60	1.0	"	50.0	ND	119	66-135			
m,p-Xylene	120	2.0	"	100	ND	121	69-139			
Methylene Chloride	46	5.0	"	50.0	0.0	91.7	87-118			
Methyl tert-Butyl Ether	57	1.0	"	50.0	ND	114	62-138			
Naphthalene	54	10	"	50.0	0.8	107	59-148			

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 Project: PPSL

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4B18007 - EPA 5030B (Water)

Matrix Spike (4B18007-MS1)	Source: X402133-01			Prepared: 02/18/2014 Analyzed: 02/18/2014						
n-Butylbenzene	65	1.0	ug/L	50.0	ND	130	52-146			
n-Propylbenzene	62	1.0	"	50.0	ND	125	66-141			
o-Xylene	59	1.0	"	50.0	ND	119	74-131			
sec-Butylbenzene	64	1.0	"	50.0	ND	127	63-138			
Styrene	49	1.0	"	50.0	ND	97.8	72-128			
tert-Butylbenzene	62	1.0	"	50.0	ND	125	67-129			
Tetrachloroethene	57	1.0	"	50.0	ND	114	76-134			
Toluene	60	1.0	"	50.0	ND	120	73-131			
trans-1,2-Dichloroethene	57	1.0	"	50.0	ND	114	78-123			
trans-1,3-Dichloropropene	61	1.0	"	50.0	ND	121	75-125			
Trichloroethene	60	1.0	"	50.0	ND	120	73-131			
Trichlorofluoromethane	54	1.0	"	50.0	ND	108	83-141			
Vinyl chloride	63	1.0	"	50.0	ND	127	73-139			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>64</i>		<i>"</i>	<i>62.5</i>		<i>103</i>	<i>84-121</i>			
<i>Surrogate: Toluene-d8</i>	<i>63</i>		<i>"</i>	<i>62.5</i>		<i>100</i>	<i>85-115</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>60</i>		<i>"</i>	<i>62.5</i>		<i>96.8</i>	<i>84-114</i>			

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 Project: PPSL

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4B18007 - EPA 5030B (Water)										
Matrix Spike Dup (4B18007-MSD1)			Source: X402133-01			Prepared: 02/18/2014 Analyzed: 02/18/2014				
1,1,1,2-Tetrachloroethane	46	1.0	ug/L	50.0	ND	91.6	82-130	4.90	20	
1,1,1-Trichloroethane	60	1.0	"	50.0	0.2	120	81-125	0.843	20	
1,1,2,2-Tetrachloroethane	57	1.0	"	50.0	ND	115	74-120	0.947	20	
1,1,2-Trichloroethane	62	1.0	"	50.0	ND	124	80-118	4.66	20	QM-05
1,1-Dichloroethane	60	1.0	"	50.0	1.8	117	79-120	1.98	20	
1,1-Dichloroethene	46	1.0	"	50.0	ND	92.1	73-130	1.08	20	
1,1-Dichloropropene	60	1.0	"	50.0	ND	119	77-124	1.70	20	
1,2,3-Trichlorobenzene	59	5.0	"	50.0	0.9	116	55-144	4.70	20	
1,2,3-Trichloropropane	57	5.0	"	50.0	ND	114	67-126	0.593	20	
1,2,4-Trichlorobenzene	58	1.0	"	50.0	0.2	116	56-141	1.35	20	
1,2,4-Trimethylbenzene	59	1.0	"	50.0	ND	119	62-132	5.94	20	
1,2-Dibromo-3-chloropropane	62	5.0	"	50.0	ND	125	56-142	3.09	20	
1,2-Dibromoethane (EDB)	55	1.0	"	50.0	ND	111	84-124	0.854	20	
1,2-Dichlorobenzene	57	1.0	"	50.0	ND	114	74-124	3.39	20	
1,2-Dichloroethane	61	1.0	"	50.0	ND	122	76-120	3.34	20	QM-05
1,2-Dichloropropane	61	1.0	"	50.0	ND	122	78-117	1.37	20	QM-05
1,3,5-Trimethylbenzene	58	1.0	"	50.0	ND	117	64-138	7.39	20	
1,3-Dichlorobenzene	64	1.0	"	50.0	ND	128	73-126	4.70	20	QM-05
1,3-Dichloropropane	55	1.0	"	50.0	ND	109	83-120	0.0549	20	
1,4-Dichlorobenzene	58	1.0	"	50.0	ND	116	64-130	3.68	20	
2,2-Dichloropropane	59	1.0	"	50.0	ND	119	77-129	1.24	20	
2-Butanone	290	5.0	"	250	ND	117	66-128	6.62	20	
2-Chlorotoluene	57	1.0	"	50.0	ND	114	71-130	6.85	20	
2-Hexanone	280	5.0	"	250	ND	112	74-123	1.04	20	
4-Chlorotoluene	57	1.0	"	50.0	ND	115	66-128	7.26	20	
4-Isopropyltoluene	65	1.0	"	50.0	ND	130	60-140	6.77	20	

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Pinyon
 9100 West Jewell Avenue, Suite 200
 Lakewood CO 80232

Brian Partington
 Project Number: 11319101
 Project: PPSL

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4B18007 - EPA 5030B (Water)

Matrix Spike Dup (4B18007-MSD1)	Source: X402133-01			Prepared: 02/18/2014 Analyzed: 02/18/2014						
4-Methyl-2-pentanone	320	5.0	ug/L	250	0.1	126	65-125	6.41	20	QM-05
Acetone	290	8.0	"	250	ND	114	63-134	4.47	20	
Benzene	59	1.0	"	50.0	ND	118	74-130	0.119	20	
Bromobenzene	57	1.0	"	50.0	ND	115	70-130	2.83	20	
Bromochloromethane	60	1.0	"	50.0	ND	120	80-118	0.334	20	QM-05
Bromodichloromethane	63	1.0	"	50.0	ND	126	76-122	2.62	20	QM-05
Bromoform	46	1.0	"	50.0	ND	92.0	80-128	0.370	20	
Bromomethane	59	1.0	"	50.0	ND	118	69-144	2.34	20	
Carbon disulfide	170	2.0	"	250	ND	69.5	70-131	0.774	20	QM-05
Carbon tetrachloride	60	1.0	"	50.0	ND	121	81-130	1.09	20	
Chlorobenzene	53	1.0	"	50.0	ND	106	72-128	5.86	20	
Chloroethane	61	1.0	"	50.0	ND	122	79-140	1.02	20	
Chloroform	58	1.0	"	50.0	0.2	116	76-118	0.652	20	
Chloromethane	62	1.0	"	50.0	ND	124	72-128	1.29	20	
cis-1,2-Dichloroethene	62	1.0	"	50.0	0.2	123	78-120	1.32	20	QM-05
cis-1,3-Dichloropropene	63	1.0	"	50.0	ND	126	79-120	3.30	20	QM-05
Dibromochloromethane	63	1.0	"	50.0	ND	127	81-121	7.00	20	QM-05
Dibromomethane	63	1.0	"	50.0	ND	126	84-115	5.91	20	QM-05
Ethylbenzene	56	1.0	"	50.0	ND	113	76-132	5.98	20	
Hexachlorobutadiene	57	1.5	"	50.0	ND	114	70-130	6.27	20	
Iodomethane	230	2.0	"	250	ND	91.0	72-127	0.631	20	
Isopropylbenzene	55	1.0	"	50.0	ND	111	66-135	7.45	20	
m,p-Xylene	110	2.0	"	100	ND	114	69-139	5.57	20	
Methylene Chloride	47	5.0	"	50.0	0.0	93.5	87-118	1.90	20	
Methyl tert-Butyl Ether	60	1.0	"	50.0	ND	120	62-138	5.25	20	
Naphthalene	56	10	"	50.0	0.8	111	59-148	3.58	20	

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4B18007 - EPA 5030B (Water)

Matrix Spike Dup (4B18007-MSD1)	Source: X402133-01			Prepared: 02/18/2014 Analyzed: 02/18/2014						
n-Butylbenzene	60	1.0	ug/L	50.0	ND	120	52-146	7.38	20	
n-Propylbenzene	58	1.0	"	50.0	ND	116	66-141	7.59	20	
o-Xylene	56	1.0	"	50.0	ND	112	74-131	6.06	20	
sec-Butylbenzene	59	1.0	"	50.0	ND	118	63-138	7.24	20	
Styrene	46	1.0	"	50.0	ND	92.9	72-128	5.08	20	
tert-Butylbenzene	58	1.0	"	50.0	ND	116	67-129	7.20	20	
Tetrachloroethene	54	1.0	"	50.0	ND	107	76-134	6.44	20	
Toluene	61	1.0	"	50.0	ND	121	73-131	0.996	20	
trans-1,2-Dichloroethene	56	1.0	"	50.0	ND	112	78-123	2.18	20	
trans-1,3-Dichloropropene	64	1.0	"	50.0	ND	128	75-125	5.55	20	QM-05
Trichloroethene	59	1.0	"	50.0	ND	119	73-131	1.32	20	
Trichlorofluoromethane	54	1.0	"	50.0	ND	108	83-141	0.111	20	
Vinyl chloride	63	1.0	"	50.0	ND	126	73-139	1.11	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>69</i>		<i>"</i>	<i>62.5</i>		<i>110</i>	<i>84-121</i>			
<i>Surrogate: Toluene-d8</i>	<i>65</i>		<i>"</i>	<i>62.5</i>		<i>105</i>	<i>85-115</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>61</i>		<i>"</i>	<i>62.5</i>		<i>96.8</i>	<i>84-114</i>			

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Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Metals by SW846 3005A/6010C - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1367812 - SW846 3005A

BLANK (1203038660-BLK)

Prepared: 02/20/2014 Analyzed: 02/24/2014

Chromium	ND	0.005	mg/L		0		-			U
Silver	ND	0.005	"		0		-			U
Lead	ND	0.010	"		0		-			U
Cadmium	ND	0.005	"		0		-			U
Arsenic	ND	0.030	"		0		-			U
Barium	ND	0.005	"		0		-			U
Selenium	ND	0.030	"		0		-			U

LCS (1203038661-BKS)

Prepared: 02/20/2014 Analyzed: 02/24/2014

Silver	0.500	0.005	mg/L	0.500	0	99.9	80-120			
Arsenic	0.496	0.030	"	0.500	0	99.1	80-120			
Barium	0.501	0.005	"	0.500	0	100	80-120			
Cadmium	0.497	0.005	"	0.500	0	99.3	80-120			
Chromium	0.494	0.005	"	0.500	0	98.8	80-120			
Lead	0.505	0.010	"	0.500	0	101	80-120			
Selenium	0.481	0.030	"	0.500	0	96.2	80-120			

DUP (1203038662 D)

Source: X402136-01

Prepared: 02/20/2014 Analyzed: 02/24/2014

Silver	ND	0.005	mg/L		<0.001		0-20	28.4	20	U
Selenium	ND	0.030	"		0.00682		0-20	53.8	20	U
Lead	0.135	0.010	"		0.139		0-20	2.28	20	
Chromium	0.102	0.005	"		0.105		0-20	3.09	20	

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 Project: PPSL

Metals by SW846 3005A/6010C - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1367812 - SW846 3005A										
DUP (1203038662 D)			Source: X402136-01			Prepared: 02/20/2014 Analyzed: 02/24/2014				
Cadmium	0.00687	0.005	mg/L		0.00704		0-20	2.56	20	
Arsenic	0.017	0.030	"		0.0233		0-20	31.0	20	J
Barium	0.775	0.005	"		0.798		0-20	2.84	20	
MS (1203038663 S)			Source: X402136-01			Prepared: 02/20/2014 Analyzed: 02/24/2014				
Silver	0.477	0.005	mg/L	0.500	<0.001	95.4	75-125			
Arsenic	0.511	0.030	"	0.500	0.0233	97.5	75-125			
Barium	1.26	0.005	"	0.500	0.798	92.7	75-125			
Cadmium	0.467	0.005	"	0.500	0.00704	92	75-125			
Chromium	0.568	0.005	"	0.500	0.105	92.5	75-125			
Lead	0.600	0.010	"	0.500	0.139	92.3	75-125			
Selenium	0.464	0.030	"	0.500	0.00682	91.4	75-125			
FLTB (343199002-BLK)						Prepared: 02/20/2014 Analyzed: 02/24/2014				
Chromium	ND	0.005	mg/L		0		-			U
Cadmium	ND	0.005	"		0		-			U
Barium	ND	0.005	"		0		-			U
Arsenic	ND	0.030	"		0		-			U
Lead	ND	0.010	"		0		-			U
Selenium	ND	0.030	"		0		-			U
Silver	ND	0.005	"		0		-			U

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Metals by SW846 7470A - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1367806 - SW846 7470A Prep										
BLANK (1203038619-BLK)					Prepared: 02/20/2014 Analyzed: 02/21/2014					
Mercury	ND	0.0002	mg/L		0		-			U
LCS (1203038620-BKS)					Prepared: 02/20/2014 Analyzed: 02/21/2014					
Mercury	0.00208	0.0002	mg/L	0.002	0	104	80-120			
LCSD (1203038630-BKSD)					Prepared: 02/20/2014 Analyzed: 02/21/2014					
Mercury	0.00211	0.0002	mg/L	0.002	0	106	80-120	1.62	20	
FLTB (343199002-BLK)					Prepared: 02/20/2014 Analyzed: 02/21/2014					
Mercury	ND	0.0002	mg/L		0		-			U

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Notes and Definitions

- U Result not detected above the detection limit
- S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
- QM-11 Spike recovery was outside acceptance limits for LCS, however samples are non-detect for this compound.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
- J Greater than the detection limit but less than the reporting limit
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- All soil results are reported at a wet weight basis.

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Noelle Doyle Mathis, President