

Phase I Environmental Site Assessment

Ute Highway Water Treatment Plant

4651 & 4652 Ute Highway

Boulder County, Colorado

October 3, 2011

Terracon Project No. 22117704



Prepared for:

City of Longmont
Department of Public Works & Natural Resources
Longmont Colorado

Prepared by:

Terracon Consultants, Inc.
Longmont, Colorado

Offices Nationwide
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Terracon

Geotechnical

Environmental

Construction Materials

Facilities

October 3, 2011



City of Longmont
Public Works & Natural Resources
385 Kimbark Street
Longmont, Colorado 80501

Attn: Mr. Larry Wyeno
P: 303-651-8628
E: larry.wyeno@ci.longmont.co.us

**Re: Phase I Environmental Site Assessment
Ute Highway Water Treatment Plant
4651 & 4652 Ute Highway
Boulder County, Colorado
Project No. 22117704**

Dear Mr. Wyeno:

Terracon Consultants, Inc. (Terracon) is pleased to submit the enclosed Phase I Environmental Site Assessment report for the above-referenced site. This assessment was performed in accordance with our proposal dated August 4, 2011.

We appreciate the opportunity to be of service to you on this project. In addition to Phase I services, our professionals provide geotechnical, environmental, construction materials, and facilities services on a wide variety of projects locally, regionally and nationally. For more detailed information on all of Terracon's services please visit our website at <http://www.terracon.com>. If there are any questions regarding this report or if we may be of further assistance, please do not hesitate to contact us.

Sincerely,
Terracon Consultants, Inc.

A handwritten signature in blue ink that reads 'E.A.B'.

Eric A. Buol
Staff Geologist

A handwritten signature in blue ink that reads 'Edward Haas'.

Dana L. Harris
Dept. Manager, Environmental Services
(Fort Collins, CO office)

For:

Terracon Consultants Inc, 1242 Bramwood Pl. Longmont, CO 80501
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Common Acronyms¹

ACM.....	Asbestos containing material
AST.....	Aboveground storage tank
ASTM.....	American Society for Testing and Materials
AUL.....	Activity and use limitation
BGS.....	Below ground surface
BTEX	Benzene, toluene, ethylbenzene, and xylenes
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
DOT	United States Department of Transportation
EPA	United States Environmental Protection Agency
HREC	Historical recognized environmental condition
LUST	Leaking underground storage tank
MCL.....	Maximum contaminant level
MSDS	Material safety data sheet
NGVD	National Geodetic Vertical Datum
NOV.....	Notice of violation
NPL.....	National Priority List
NRCS	USDA Natural Resources Conservation Service
OSHA	Occupational Safety and Health Administration
PCB	Poly-chlorinated biphenyl
RCRA	Resource Conservation and Recovery Act
REC	Recognized environmental condition
SPCC.....	Spill Prevention, Control and Countermeasure
SWPPP.....	Stormwater pollution prevention plan
TEPH.....	Total extractable petroleum hydrocarbons
TPH	Total petroleum hydrocarbons
TVPH.....	Total volatile petroleum hydrocarbons
TRI.....	Toxic release inventory
TSCA.....	Toxic Substances Control Act
USGS	United States Geological Survey
UST	Underground storage tank
VCP	Voluntary cleanup program
VOC.....	Volatile organic compound

Units of measure

sq ft	square feet
mg/kg.....	milligrams per kilogram
mg/l.....	milligrams per liter
ug/l.....	micrograms per liter
ppb.....	parts per billion
ppm.....	parts per million

¹ An additional list of acronyms and definitions is included in Appendix B.

**PHASE I ENVIRONMENTAL SITE ASSESSMENT
UTE HIGHWAY WATER TREATMENT PLANT
BOULDER COUNTY, CO**

**Project No. 22117704
October 3, 2011**

EXECUTIVE SUMMARY

This Phase I ESA was performed in accordance with our proposal dated August 4, 2011, and was conducted consistent with the procedures included in ASTM E 1527-05, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*. The ESA was conducted under the supervision or responsible charge of Dana L. Harris, environmental professional. Mr. Buol performed the site reconnaissance on September 12, 2011.

A cursory summary of findings is provided below. It should be recognized that details were not included or fully developed in this section, and the report must be read in its entirety for a comprehensive understanding of the items contained herein.

- The site is a former water treatment plant located at 4651 and 4652 Ute Highway, southeast of Lyons, Boulder County, Colorado. The water treatment plant facility is separated into two parcels that are divided by Ute Highway (SH 66) into the North Plant and South Plant. The South Plant was built in 1934 with additions and renovations in the 1950's and 1970's. An equipment storage building was built at the South Plant in 2004. The North Plant was built in 1967 with two additional site buildings constructed in the 1970's and 1980's. Both water treatment plants ceased operations in 2005 and are now used for storage and equipment spare parts. Most of the facilities' structures, containers, and equipment are still in place.
- While in operation the treatment plants used large quantities of pH adjusters, flocculants, fluoride, and chlorine-source materials to produce drinking water from raw water of the St Vrain Creek Watershed. Smaller quantities of hazardous substances and petroleum products were used to operate, maintain, and clean the equipment used to operate the plants. Reportedly the Maintenance Building located in the eastern portion of the North Plant is where the operations equipment was serviced. Terracon observed a floor drain in the Maintenance Building which reportedly was connected to a site perimeter drain system. Based on the length of time the Maintenance Building has been in place, building use, possible presence and use of hazardous materials and petroleum products identified from MSDS information, and proximity of observed hazardous materials and petroleum products, discharges to the interior floor drain in the Maintenance Building at the North Plant are considered a REC to the site at this time.
- Terracon observed staining on the concrete floor under a hydraulic elevator fluid reservoir in the South Plant filtration building. The elevator pit was not accessible for a visual assessment. Based on the age of the building, the hydraulic fluid used in

the elevator system may have contained PCBs. Based on the staining observed and the potential for PCBs, this elevator is considered a REC.

- The backwash ponds located on the North Plant are considered a REC due to the potential for naturally occurring elements and compounds to have been concentrated through the backwash process and accumulated in the pond bottoms, due to the potential for process-added compounds to have accumulated in the pond bottoms, and due to the potential for leaching to occur under the ponds.
- Adjoining the site to the north of the South Plant is Ute Highway (SH 66). To the north of the North Plant is a canal followed by agricultural/residential property. Adjoining the site to the east of the South Plant is residential property and St Vrain Creek. To the east of the North Plant is Madhava Honey facility and a canal. Adjoining the site to the south of the South Plant is the St Vrain Creek followed by residential property. To the south of the North Plant is Ute Highway (SH 66). Adjoining the site to the west of the South Plant is a residence and St Vrain Creek. To the west of the North Plant is The Anchorage boat storage and well drilling business, Greening by Gwenn plant nursery, and agricultural/residential property. During site reconnaissance, Terracon observed approximately 100 55-gallon barrels on the north side of the Madhava Honey building, the adjoining property to the east of the North Plant. Based on observations from the site border the barrels appeared to be empty. Based on review of historical aerial photographs the barrels were not in-place until the current structure was built in the early 1980s. No staining was observed associated with the containers. Based on the reported property operations, historical review, and site observations the Madhava Honey facility and associated 55-gallon barrels do not constitute RECs to the site at this time.

8.2 Recommendations

Based on the scope of services, limitations, and findings of this assessment, Terracon did identify RECs that warrant further action.

- If the elevator can be structurally shored, the elevator pit should be visually assessed for potential hydraulic fluid releases. If potential releases are identified, it may be necessary to conduct sampling within the elevator shaft and pit for hydraulic fluid and PCBs, and possibly in subsurface soils and groundwater under and around the elevator pit location. The concrete floor under the hydraulic fluid reservoir should be assessed for PCBs.
- Discharges to the floor drain in the maintenance building should be assessed through soil and groundwater sampling in the vicinity of the maintenance building, the discharge point for the drain (believed to be a ditch) and along the piping connecting the drain to the discharge point. It may be necessary to conduct a

preliminary investigation to verify the path of the piping and the discharge point. Soil and groundwater samples should be analyzed for volatile organic compounds (VOCs), petroleum hydrocarbons, and heavy metals.

- The backwash ponds at the North Plant are considered a REC. The level of additional assessment of these ponds may depend on the intended future use of the ponds. It may be warranted to assess subsurface soils and groundwater under and in the vicinity of the ponds for metals, sulfates, nitrates, polymer constituents, pH, and other constituents contained in the raw waters and process chemicals.
- Although not considered a REC, the future use of the site may dictate a significant amount of decommissioning, including proper characterization and disposal of various equipment and various storage containers and associated residual products. If the existing facility is to be re-occupied, interior and exterior structures may require decontamination or special cleaning and verification sampling by an industrial hygienist.

**PHASE I ENVIRONMENTAL SITE ASSESSMENT
UTE HIGHWAY WATER TREATMENT PLANT
BOULDER COUNTY, CO**

**Project No. 22117704
October 3, 2011**

1.0 INTRODUCTION

1.1 Site Description

Site Description

Site Name	Ute Highway Water Treatment Plant
Site Location/Address	NE ¼ of Section 20, T3N, R70W / 4651 & 4652 Ute Highway, Boulder County, Colorado
Land Area	Approximately 10 acres
Site Improvements	The site has been improved with water treatment plant facility equipment including: concrete chemical buildings, filter buildings, pump building, clear well building, floc-sed basin, belt press building, and metal buildings, and associated paved driveways.

The site location is depicted on Exhibit 1 of Appendix A, which was reproduced from a portion of the USGS 7.5-minute series topographic map. Diagrams of the site and adjoining properties are included as Exhibits 2A and 2B of Appendix A. Acronyms and terms used in this report are described in Appendix B.

1.2 Scope of Services

This Phase I ESA was performed in accordance with our proposal dated August 4, 2011, and was conducted consistent with the procedures included in ASTM E 1527-05, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*. The purpose of this ESA was to assist the client in developing information to identify RECs in connection with the site as reflected by the scope of this report. This purpose was undertaken through user-provided information, a regulatory database review, historical and physical records review, interviews, including local government inquiries, as applicable, and a visual noninvasive reconnaissance of the site and adjoining properties. Limitations, ASTM deviations, and significant gaps (if identified) are evident from reviewing the applicable scope of services and the report text.

1.3 Standard of Care

This ESA was performed in accordance with generally accepted practices of this profession, undertaken in similar studies at the same time and in the same geographical area. We have endeavored to meet this standard of care, but may be limited by conditions encountered during performance, a client-driven scope of work, or inability to review information not received by the report date. When appropriate, these limitations are discussed in the text of

the report, and an evaluation of their significance with respect to our findings has been conducted.

Phase I ESAs, such as the one performed at this site, are of limited scope, are noninvasive and cannot eliminate the potential that hazardous, toxic, or petroleum substances are present or have been released at the site beyond what is identified by the limited scope of this ESA. In conducting the limited scope of services described herein, certain sources of information and public records were not reviewed. It should be recognized that environmental concerns may be documented in public records that were not reviewed. No ESA can wholly eliminate uncertainty regarding the potential for RECs in connection with a property. Performance of this practice is intended to reduce, but not eliminate, uncertainty regarding the potential for RECs. No warranties, express or implied, are intended or made. The limitations herein must be considered when the user of this report formulates opinions as to risks associated with the site or otherwise uses the report for any other purpose. These risks may be further evaluated - but not eliminated - through additional research or assessment. We will, upon request, advise you of additional research or assessment options that may be available and associated costs.

1.4 Additional Scope Limitations, ASTM Deviations and Significant Data Gaps

Based upon the agreed-on scope of services, this ESA did not include subsurface or other invasive assessments, business environmental risk evaluations, or other services not particularly identified and discussed herein. Reasonable attempts were made to obtain information within the scope and time constraints set forth by the client; however, in some instances, information requested is not, or was not, received by the issuance date of the report. Consideration of such information is beyond the scope of this assessment. Information obtained for this ESA was received from several sources that we believe to be reliable; nonetheless, the authenticity or reliability of these sources cannot and is not warranted hereunder. This ESA was further limited by the following:

- *Credentials of the company (Statement of Qualifications) have not been included in this report but are available upon request.*
- *Pertinent documents are referred to in the text of this report, and a separate reference section has not been included.*
- *Terracon was unable to visually assess the elevator pit associated with the South Plant hydraulic elevator due to concerns over the structural integrity of the elevator. This is not considered a significant data gap because the hydraulic elevator is considered a REC due to observed releases of potentially PCB-containing hydraulic fluid near the hydraulic fluid reservoir.*

An evaluation of the significance of these limitations and missing information with respect to our findings has been conducted, and where appropriate, significant data gaps are identified

and discussed in the text of the report. However, it should be recognized that an evaluation of significant data gaps is based on the information available at the time of report issuance, and an evaluation of information received after the report issuance date may result in an alteration of our conclusions, recommendations, or opinions. We have no obligation to provide information obtained or discovered by us after the issuance date of the report, or to perform any additional services, regardless of whether the information would affect any conclusions, recommendations, or opinions in the report. This disclaimer specifically applies to any information that has not been provided by the client.

This report represents our service to you as of the report date and constitutes our final document; its text may not be altered after final issuance. Findings in this report are based upon the site's current utilization, information derived from the most recent reconnaissance and from other activities described herein; such information is subject to change. Certain indicators of the presence of hazardous substances or petroleum products may have been latent, inaccessible, unobservable, or not present during the most recent reconnaissance and may subsequently become observable (such as after site renovation or development). Further, these services are not to be construed as legal interpretation or advice.

1.5 Reliance

This ESA report is prepared for the exclusive use and reliance of City of Longmont. Use or reliance by any other party is prohibited without the written authorization of City of Longmont and Terracon Consultants, Inc. (Terracon).

Reliance on the ESA by the client and all authorized parties will be subject to the terms, conditions and limitations stated in the proposal, ESA report, and Terracon's Agreement for Services. The limitation of liability defined in the Agreement for Services is the aggregate limit of Terracon's liability to the client and all relying parties.

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

1.6 Client Provided Information

Prior to the site visit, Mr. Larry Wyeno, client's representative, provided the following information.

1.6.1 Specialized Knowledge or Experience

Mr. Larry Wyeno was not aware of specialized knowledge or experience that is material to RECs in connection with the site.

1.6.2 Actual Knowledge of Environmental Liens or AULs

Mr. Larry Wyeno did not have actual knowledge of environmental liens or AULs encumbering the site or in connection with the site.

1.6.3 Reason for Significantly Lower Purchase Price

Mr. Larry Wyeno was not aware of a significantly lower purchase price because of the presence of hazardous substances or petroleum products. Mr. Wyeno stated that an appraisal was done for the site in 2007 and there are no known contaminants on site.

1.6.4 Commonly Known or Reasonably Ascertainable Information

Mr. Larry Wyeno was not aware of commonly known or reasonably ascertainable information within the local community about the site that is material to RECs in connection with the site.

1.6.5 Obvious Indicators of Contamination at the Site

Mr. Larry Wyeno was not aware of obvious indicators that point to the presence or likely presence of contamination at the site.

2.0 PHYSICAL SETTING

Physical Setting

PHYSICAL SETTING INFORMATION FOR SITE AND SURROUNDING AREA		SOURCE
Topography (Refer to Appendix A for an excerpt of the Topographic Map)		
Site Elevation	Approximately 5255 feet (NGVD)	USGS Topographic Map, Hygiene, Colorado Quadrangle, Published 1968, Map Revised 1979
Surface Runoff/ Topographic Gradient	Sloping toward the south-southeast	
Closest Surface Water	St. Vrain Creek, approximately 40 feet to the south of the site	
Soil Characteristics		
Soil Type	Loveland Soils	Boulder County, Colorado USDA, Natural Resources Conservation Service Soil Survey, issued January 1975
Description	Deep, somewhat poorly drained soils formed on stream terraces and bottoms in loamy alluvium that overlies gravelly and sandy materials. Permeability is moderate and available water capacity is moderate to high, depending upon the depth to very gravelly sand. Runoff is slow.	
Geology/Hydrogeology		
Formation	Qa - Modern Alluvium	Geologic Map of the Boulder-Fort Collins- Greeley area, Colorado, 1978
Description	Includes Piney Creek Alluvium and younger deposits.	

PHYSICAL SETTING INFORMATION FOR SITE AND SURROUNDING AREA		SOURCE
<i>Estimated Depth to First Occurrence of Groundwater</i>	Less than 5 feet	<i>Depth to The Water Table (1976-77) in the Boulder-Fort Collins-Greeley Area, Front Range Urban Corridor, Colorado, Hillier, D.E, Schneider, P.A., 1979.</i>
* <i>Hydrogeologic Gradient:</i>	Not known - may be inferred to be parallel to topographic gradient (primarily to the south-southeast.)	

* The groundwater flow direction and the depth to shallow, unconfined groundwater, if present, would likely vary depending upon seasonal variations in rainfall and other hydrogeological features. Without the benefit of on-site groundwater monitoring wells surveyed to a datum, groundwater depth and flow direction beneath the site cannot be directly ascertained.

3.0 HISTORICAL USE INFORMATION

Terracon reviewed the following historical sources for indications of RECs. A summary of the historical review is included at the end of this section. Copies of selected historical documents are included in Appendix C.

3.1 Historical Topographic Maps

Readily available historical USGS topographic maps were reviewed to identify RECs in connection with the site. Reviewed historical topographic maps are summarized below.

- Niwot, Colorado: published 1904 from **1902** survey (1:62,500)
- Hygiene, Colorado: published 1950 from **1949** aerials (1:24,000)
- Hygiene, Colorado: published 1968 from **1967** aerials (1:24,000)
- Hygiene, Colorado: published 1968 from 1967 aerials, photorevised 1971 from **1971** aerials (1:24,000)
- Hygiene, Colorado: published 1968 from 1967 aerials, photorevised 1979 from **1978** aerials (1:24,000)

Historical Topographic Maps

Direction	Description

Direction	Description
Site	<p>1902: Undeveloped land and Burlington and Missouri River Rail Road tracks. A water canal runs through the northern portion of the site.</p> <p>1949: State Highway 66 divides the site into north and south portions. Northern plant: Undeveloped land with a row of 7 houses and a barn. Southern plant: Chicago Burlington and Quincy Rail Road tracks, a barn and a mid-sized structure.</p> <p>1967: State Highway 66 divides the site into north and south portions. Northern plant: A large structure labeled Longmont Filtration Plant. Southern plant: Chicago Burlington and Quincy Rail Road tracks and five structures.</p> <p>1971, 1978: State Highway 66 divides the site into north and south portions. Northern plant: A large structure labeled Longmont Filtration Plant. Southern plant: Burlington Northern Rail Road tracks and five structures.</p>
North	<p>1902: Undeveloped land, three canals, a road, and one structure.</p> <p>1949, 1967, 1971, 1978: Undeveloped land, three canals, five structures and a road.</p>
East	<p>1902: Undeveloped land, three canals, Burlington and Missouri River Rail Road tracks, a road, and about four structures.</p> <p>1949, 1967: Undeveloped land, State Highway 66 and Chicago Burlington and Quincy Rail Road tracks.</p> <p>1971: Undeveloped land, State Highway 66 and Burlington Northern Rail Road tracks.</p> <p>1978: Two structures, undeveloped land, State Highway 66 and Burlington Northern Rail Road tracks.</p>
South	<p>1902: Undeveloped land, St. Vrain Creek, two structures and a road.</p> <p>1949, 1967, 1971: St. Vrain Creek, undeveloped land, and one to two structures.</p> <p>1978: St. Vrain Creek, undeveloped land, and three structures.</p>
West	<p>1902: Undeveloped land, three creeks/canals, Burlington and Missouri River Rail Road tracks, and a road.</p> <p>1949: Undeveloped land, State Highway 66, Chicago Burlington and Quincy Rail Road tracks, two structures, and State Highway 7.</p> <p>1967: Four structures, State Highway 66, Chicago Burlington and Quincy Rail Road tracks, and US Highway 36.</p> <p>1971, 1978: Six structures, State Highway 66, Burlington Northern Rail Road tracks, and US Highway 36.</p>

3.2 Historical Aerial Photographs

Selected historical aerial photographs from the Boulder County Land Use Department office, msrmmaps.com website, and the Boulder County Assessor's website were reviewed at approximately 10 to 15 year intervals, if readily available, to obtain information concerning the history of development on and near the site. Evaluation of these aerials may be limited by a photo's quality and scale. Selected photographs are summarized below.

- Boulder County Land Use Department, **1973**
- Boulder County Land Use Department, **1984**
- msrmmaps.com, **1999**
- msrmmaps.com, **2002**

- Boulder County, Colorado website, **2008**

Historical Aerial Photographs

Direction	Description
Site	1973: The site is an apparent water treatment facility divided into north and south portions by a highway (SH 66) and railroad tracks; Northern plant: One large structure, vacant/agricultural land, and soil material piles in the northern portion. Southern plant: One large structure, paved and un-paved driveways, and two small ponds in the southeastern portion of the site. 1984: The site is an apparent water treatment facility divided into north and south portions by a highway (SH 66) and railroad tracks; Northern plant: Two structures, two ponds in the northern portion, paved and un-paved driveways, piles of soil/sludge material in the western portion of the site. Southern plant: About three structures, paved and un-paved driveways, and a small pond in the eastern portion of the site. 1999, 2002, 2008: The site is an apparent water treatment facility divided into north and south portions by a highway (SH 66); Northern plant: Three structures, two ponds, paved and un-paved driveways, and an open-air, rectangular, materials storage area in the western portion of the site. Southern plant: About six structures, paved and un-paved driveways, and a small pond in the eastern portion of the site.
North	1973, 1984, 1999, 2002, 2008: A canal, residential/agricultural properties, and a gravel road.
East	1973: Northern plant: Agricultural land, and a canal. Southern plant: residential property. 1984, 1999, 2002, 2008: Northern plant: a large commercial structure with outside storage area, a canal, residential property, and undeveloped land. Southern plant: residential property.
South	1973, 1984: St. Vrain Creek followed by residential/agricultural properties and a large pond. 1999: St. Vrain Creek followed by residential properties. 2002, 2008: St. Vrain Creek followed by a residential/commercial property with landscaping material piles.
West	1973: Northern plant: A commercial property with two structures, agricultural/residential property, approximately three canals and a gravel road. Southern plant: Residential/commercial property. 1984, 1999, 2002, 2008: Northern plant: a commercial property with five structures and about 30 boats, an apparent plant nursery facility with two structures, followed by three canals and a gravel road. Southern plant: Residential/commercial property.

3.3 Historical City Directories

According to the Longmont Public Library in Longmont, Colorado, historical city directories are not available for the site.

3.4 Historical Fire Insurance Maps

Historical fire insurance maps produced by the Sanborn Map Company were requested from Environmental Data Resources Inc. (EDR) to evaluate past uses and relevant characteristics of the site and surrounding properties. Based upon inquiries to the above-listed Sanborn provider, Sanborn Maps were not available for the site.

3.5 Property Tax File Information

Based on a review of information obtained from Boulder County assessor's records, the current site owner is City of Longmont.

3.6 Title Search

At the direction of the client, a title search was not included as part of the scope of services. Unless notified otherwise, we assume that the client is evaluating this information outside the context of this report.

3.7 Environmental Liens

Environmental lien records recorded against the site were not provided by the client. At the direction of the client, performance of a review of these records was not included as part of the scope of services and unless notified otherwise, we assume that the client is evaluating this information outside the context of this report.

3.8 Building Department Records

Terracon reviewed building department records on the Boulder County Assessor's website for information indicating RECs on the site. The only permit identified was for a septic system upgrade for the North Plant dated 1983.

3.9 Zoning/Land Use Records

According to the Boulder County Assessor's Zoning Map, the site is currently zoned as Agricultural.

3.10 Historical Interviews

The following individuals were interviewed regarding historical use of the site.

Interviewee

<u>Interviewer</u>	<u>Interviewee</u>	<u>Title</u>	<u>Date</u>
Eric A. Buol	Mr. George Talbott	Plant Supervisor	September 12, 2011

Terracon interviewed Mr. George Talbott, the water treatment plant supervisor, on September 12, 2011. Mr. Talbott stated that he has been associated with the site since he started working there in 1987. Mr. Talbott led Terracon through the South Plant and North Plant and described historical site processes, materials, and chemicals. Mr. Talbott showed Terracon locations of the plant offices and files with records that had been left on site. Mr.

Talbott did not know what the land was used for prior to the water treatment plants being developed on site.

South Plant: According to Mr. Talbott, the South Plant was constructed in 1934 and was expanded in the 1950's with an additional outside filter system. Reportedly the South Plant was renovated in the 1970's due to drinking water regulations. Mr. Talbott stated that the same chemicals were used in the facility from when it opened to when it closed in 2005, with the exception of the switch to bleach in lieu of liquid chlorine. Mr. Talbott stated that a chlorine spill occurred on the north side of the main building in the mid 1990's and was cleaned up by a hazardous materials team. Mr. Talbott stated that the electric storage building located in the south central portion of the site was built approximately seven years ago. Mr. Talbott stated that he thought the railroad tracks along the highway were removed in the early 1990's.

North Plant: Mr. Talbott stated that the North Plant was constructed in the mid 1960's to meet the growing Longmont population. Reported additions to the facility included a maintenance building in the eastern portion of the site, settling ponds in the northern portion of the site and a sludge belt press building and storage pad located in the western portion of the site. According to Mr. Talbott an analysis was performed on the sludge to determine if it was classified as Class A to be used as agricultural fertilizer. The material analyzed was reportedly classified as Class A. Furthermore Mr. Talbott stated that the sludge material was routinely tested for presence of radiation and always passed.

Mr. Talbott was not aware of environmental violations on the site and stated that he was not aware of any pending, threatened, or past environmental litigation, proceedings or notices of possible violations of environmental laws or liability in connection with the site and was not aware of any pending, threatened or past environmental litigation, proceedings or notices of possible violations of environmental laws or liability in connection with the site.

3.11 Prior Report Review

Previous environmental reports, permits and registrations, or geotechnical reports for the site were not provided by the client to Terracon for review.

3.12 Historical Use Information Summary

The site was reportedly constructed in 1934 as a drinking water filtration plant. Historic topographic maps suggest that the site may have been undeveloped prior to 1934, with the exception of a former railroad that was located along Ute Highway and several canals along the northern border of the site.

4.0 RECORDS REVIEW

Regulatory database information was provided by EDR, a contract information services company. The purpose of the records review was to identify RECs in connection with the site. Evaluating identified regulatory facilities for potential vapor intrusion conditions was outside the scope of this assessment. Information in this section is subject to the accuracy of the data provided by the information services company and the date at which the information is updated, and the scope herein did not include confirmation of facilities listed as "unmappable" by regulatory databases.

In some of the following subsections, the words up-gradient, cross-gradient and down-gradient refer to the topographic gradient in relation to the site. As stated previously, the groundwater flow direction and the depth to shallow groundwater, if present, would likely vary depending upon seasonal variations in rainfall and the depth to the soil/bedrock interface. Without the benefit of on-site groundwater monitoring wells surveyed to a datum, groundwater depth and flow direction beneath the site cannot be directly ascertained.

4.1 Federal and State/Tribal Databases

Listed below are the facility listings identified on federal and state/tribal databases within the ASTM-required search distances from the approximate site boundaries. Database definition, descriptions, and the database search report are included in Appendix D.

Federal and State Databases

<u>Database</u>	<u>Description</u>	<u>Radius (miles)</u>	<u>Listings</u>
Federal			
NPL	The NPL is the EPA's database of uncontrolled or abandoned hazardous waste facilities that have been listed for priority remedial actions under the Superfund Program.	1.0	0
NPL (Delisted)	The NPL (Delisted) refers to facilities that have been removed from the NPL.	0.5	0
CERCLIS	The CERCLIS database is a compilation of facilities which the EPA has investigated or is currently investigating for a release or threatened release of hazardous substances pursuant to the CERCLA of 1980.	0.5	0
CERCLIS / NFRAP	CERCLIS/NFRAP refers to facilities that have been removed and archived from EPA's inventory of CERCLA sites.	0.5	0
RCRA CORRACTS/ TSD	The EPA maintains a database of RCRA facilities associated with treatment, storage, and disposal (TSD) of hazardous waste that are undergoing "corrective action." A "corrective action" order is issued when there has been a release of hazardous waste or constituents into the environment from a RCRA facility.	1.0	1

<u>Database</u>	<u>Description</u>	<u>Radius (miles)</u>	<u>Listings</u>
RCRA Non-CORRACTS/TSD	The RCRA Non-CORRACTS/TSD Database is a compilation by the EPA of facilities which report storage, transportation, treatment, or disposal of hazardous waste. Unlike the RCRA CORRACTS/TSD database, the RCRA Non-CORRACTS/TSD database does not include RCRA facilities where corrective action is required.	0.5	0
RCRA Generators	The RCRA Generators database, maintained by the EPA, lists facilities that generate hazardous waste as part of their normal business practices. Generators are listed as either large (LQG), small (SQG), or conditionally exempt (CESQG). LQG produce at least 1000 kg/month of non-acute hazardous waste or 1 kg/month of acute hazardous waste. SQG produce 100-1000 kg/month of non-acute hazardous waste. CESQG are those that generate less than 100 kg/month of non-acute hazardous waste.	Site and adjoining properties	0
IC / EC	A listing of sites with institutional and/or engineering controls in place. IC include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls. EC include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.	Site	0
ERNS	The Emergency Response Notification System (ERNS) is a listing compiled by the EPA on reported releases of petroleum and hazardous substances to the air, soil and/or water.	Site	0
State			
SHWS	The State of Colorado does not maintain a SHWS list. See the Federal CERCLIS list and Federal NPL list.	N/A	N/A
SWF/LF	State and/or Tribal database of solid waste facilities located within Colorado. The database information may include the facility name, class, operation type, area, estimated operational life, and owner.	0.5	0
LUST	State and/or Tribal database of leaking underground storage tanks in the state of Colorado.	0.5	1
UST	State and/or Tribal database of registered storage tanks in the State of Colorado which may include the owner and location of the tanks.	Site and adjoining properties	0
CO ERNS	Listing of spills reported to the CDPHE. Information includes releases of hazardous or potential hazardous chemical/materials into the environment.	Site	0
AUL	Activity and use limitations include both engineering controls and institutional controls. The Department of Public Health & Environment approve requests to restrict the future use of a property using an enforceable agreement called an environmental real covenant. When a contaminated site is not cleaned up completely, land use restrictions may be used to ensure that the selected cleanup remedy is adequately protective of human health and the environment.	Site	0

<u>Database</u>	<u>Description</u>	<u>Radius (miles)</u>	<u>Listings</u>
VCP	State and/or Tribal facilities included as Voluntary Cleanup Program sites.	0.5	0

In addition to the above ASTM-required listings, Terracon reviewed other federal, state, local and proprietary databases provided by the database firm. A list of the additional reviewed databases is included in the regulatory database report included in Appendix D.

The following table summarizes the site specific information provided by the database and / or generated by this office for identified within the search radius. Facilities are listed in order of proximity to the site. Additional discussion for selected facilities may follow the summary table.

Listed Facilities

Facility Name and Location	Estimated Distance/Direction/Gradient	Database Listings
Shamrock #635 4206 Ute Hwy	2,500 ft / west-northwest / up-gradient	LUST
Southdown Inc. Lyons Cement Plant 5134 Ute Hwy	3,000 ft / south-southeast / down-gradient	CORRACTS, RCRA-CESQG, PADS, FINDS

The listed facilities do not represent RECs to the site at this time based upon relative topography and/or distance from the site.

Unmapped facilities are those that do not contain sufficient address or location information to evaluate the facility listing locations relative to the site. The report listed 12 facilities in the unmapped section. Determining the location of unmapped facilities is beyond the scope of this assessment; however, none of these facilities were identified as the site. These facilities are listed in the database report in Appendix D.

4.2 Local Agency Inquiries

4.2.1 Health Department

The Colorado Department of Public Health and Environment (CDPHE) was contacted by telephone regarding environmental records or information indicating environmental concerns for the site. According to Ms. Diana Huber, Records Manager for the CDPHE, there were no records on file for the sites located at 4651 and 4652 Ute Highway, Boulder County, Colorado.

The Boulder County Public Health, Environmental Health Division (BCPH) was contacted by email regarding environmental concerns on the site and adjoining properties. Ms. Susan Martino, Environmental Health Specialist II for the BCPH, provided Terracon with a report

dated September 6, 2011, listing reported hazmat sites with-in a 1-mile radius of the site. The BCPH report is included in Appendix C. Based on review of the BCPH report, one hazmat record was identified as locate at the site - dated November 18, 1996, 40 pounds of Chlorine Gas at the South Water Plant 4652 Ute Highway. The spill is listed as being cleaned up. Based on the nature of chlorine gas and the closed status, this spill does not appear to constitute a REC. The remainder of the listings were not identified as being located at or within the immediate vicinity of the site.

4.2.2 Fire Department

Mr. JJ Hoffman, Fire Chief with the Lyons Fire Protection District (LFPD) was contacted by telephone on September 19, 2011 regarding information of environmental significance pertaining to the subject site. Mr. Hoffman stated that he was not aware of any calls or responses to the site or surrounding properties since he has been associated with the LFPD for the past 13 years.

4.3 Records Review Summary

Based on a review of local, state, and federal records, two facilities were listed on ASTM-required databases but do not appear to constitute a REC based on relative topography and/or distance from the site. The site was listed on a Boulder County hazmat response database for a "spill" of chlorine gas, which is listed as a closed case. Based on the nature of chlorine gas and the closed case status, this listing does not appear to constitute a REC.

5.0 SITE RECONNAISSANCE

5.1 General Site Information

Information contained in this section is based on a visual reconnaissance conducted while walking through the site and the accessible interior areas of structures, if any, located on the site. Exhibits 2A and 2B in Appendix A are diagrams of the site. Photo documentation of the site at the time of the visual reconnaissance is provided in Appendix E. Credentials of the individuals planning and conducting the site visit are included in Appendix F.

General Site Information

Site Reconnaissance				
Field Personnel	Eric A. Buol			
Reconnaissance Date	September 12, 2011			
Weather Conditions	Sunny and warm			
Site Contact/Title	Mr. George Talbott / Plant Supervisor			
Site Description				
Site Name	Ute Highway Water Treatment Plant			
Site Location/Address	4651 & 4652 Ute Highway, Boulder County, Colorado			
Land Area	Approximately 10 acres			
Site Improvements	The site has been improved with water treatment plant facility equipment including: concrete chemical buildings, filter buildings, pump building, clear well building, floc-sed basin, belt press building, and metal buildings, and associated paved driveways			
Zoning	Agricultural			
Site Topographic Relief	Gently sloping towards the south			
Building Description				
Building Identification	Building Use	Approx. Construction Date	Number of Stories	Approx. Size (sq ft)-footprint
North 1: Filter Building	Filters, offices, lab	1967	2	4,000 per level
North 2: Chemical Mix Building	Chemical storage and mixing	1967	2	1,000 per level
North 3: Alum Storage Building	Aluminum sulfate storage	1980's	1	600
North 4: Belt Press Building	Sludge processing	1990's	1	1,500
North 5: Maintenance Building	Facility equipment maintenance	1970's	1	1,500
North 6: Bleach Building	Bleach / Chlorine storage	1980's	1	1,000
South1: Main Building	Offices, lab, chemical mixing and storage	1934, renovated 1972	4	1,500 per level
South 2: Filter Building	Filter process	1934	2	1,600
South 3: Alum Storage Building	Aluminum sulfate storage and mixing	1970's	1	300
South 4: Original Chemical Bld	Chemical storage and mixing	1934	1	200
South 5: Pump House	Water distribution	1970's	2	800

South 6: Clearwell Building	Water storage, chemical mixing, and equipment / parts storage	1970's	2	1,200
South 7: Equipment Storage	Equipment / parts storage	2004	1	1,800
Site Utilities				
<i>Electricity</i>	North: City of Longmont / South: None			
<i>Drinking Water</i>	None			
<i>Wastewater</i>	On Site Septic System			
<i>Natural Gas</i>	None			

5.2 General Description of Site, Occupants, and Operations

The site is a former water treatment plant located at 4651 and 4652 Ute Highway, southeast of Lyons, Boulder County, Colorado. The water treatment plant is divided by Ute Highway (SH 66) into the North Plant and South Plant. The South Plant was built in 1934 with additions and renovations in the 1950's and 1970's. An equipment storage building was built at the South Plant in 2004. The North Plant was built in 1967 with two additional site buildings constructed in the 1970's and 1980's. Both water treatment plants ceased operations in 2005 and are now used for storage and equipment spare parts. Most of the facilities' structures, containers, and equipment are still in place.

The following is the description of former processes at the South Plant: **Basin #1:** The raw water entered the plant through pipe lines (from St. Vrain Creek Watershed) where the water was measured for flow rate, chemistry, pH, and suspended solids. Treatment chemicals (Aluminum sulfate, Carbon, and Polymers) were added to the water to help precipitate out particulates from the water stream. The treated water then passed through a mixer to blend the treatment chemicals well, and traveled through the flocculation chambers before it entered the sedimentation area where some of the heavier particles settled out. **Basin #2:** This is a larger detention basin where the chemicals added in Basin #1 continued to work and settle out the smaller particles. **Filters:** The water passed from Basin #2 onto and through the filters where most of the remaining particles were removed by filtration. The South Plant predominately utilized six filter beds, and for a short period of time used 10 filter beds. The filters are made of anthracite coal, and graded sand and gravel. **Clearwell:** After filtration the treated water flowed into the Clearwell where Chlorine or hypochlorite (bleach) was added for disinfection, soda ash or lime was added to raise the pH, and fluoride was added. **Pump House:** As the water left the Clearwell, it flowed into pipelines that carried it to town or into storage tanks. **Backwash Recovery Pond:** Periodically the filters would be cleaned by using a backwash method. The backwash would flow to the Recovery Pond to be pumped to the North Plant Residual Ponds.

The following is the description of former processes at the North Plant:

Residual Basins (Ponds): Water entered the North Plant through pipe lines from the South Plant from filter backwash and overflow. Copper sulfate was occasionally added to the ponds for algae control. Sludge was removed from the ponds with a dredge/pump system, passed through a belt press, and piled in a holding area prior to being trucked off site. Prior to the belt press operations, the ponds were allowed to evaporate, leaving the sludge behind which was then excavated and removed from the site by truck for offsite disposal.

Sedimentation Basin / Filters: After the water entered the Sedimentation Basin the process was similar to that used for filtration at the South Plant. The North Plant utilized four filters. After filtration the water was treated with chlorine or bleach and was pumped back to the Clearwell at the South Plant where soda ash and fluoride were added and the treated water was distributed.

The North Plant has a metal building which was reportedly used as a maintenance building where plant operations equipment was serviced. The building was apparently built in the late 1970's. According to Mr. Talbott operations equipment, with the exception of vehicles, were serviced at the maintenance building on site.

5.3 Site Observations

The following table summarizes site observations and interviews. Affirmative responses (designated by an "X") are discussed in more detail following the table.

Site Characteristics

Category	Item or Feature	Observed
Site Operations, Processes, and Equipment	Emergency generators	
	Elevators	X
	Air compressors	X
	Hydraulic lifts	
	Dry cleaning	
	Photo processing	
	Laboratory hoods and/or incinerators	
	Waste treatment systems and/or water treatment systems	X
	Heating and/or cooling systems	
	Other processes or equipment	
Aboveground Chemical or Waste Storage	Aboveground storage tanks	X
	Drums, barrels and/or containers ≥ 5 gallons	X
	MSDS	X
Underground Chemical or Waste Storage, Drainage or Collection Systems	Underground storage tanks or ancillary UST equipment	
	Sumps, cisterns, catch basins and/or dry wells	
	Grease traps	
	Septic tanks and/or leach fields	X
	Oil/water separators	
	Pipeline markers	
	Interior floor drains	X

Category	Item or Feature	Observed
<i>Electrical Transformers/ PCBs</i>	Pad or pole mounted transformers and/or capacitors	
	Other equipment	
<i>Releases or Potential Releases</i>	Stressed vegetation	
	Stained soil	
	Stained pavement or similar surface	
	Leachate and/or waste seeps	
	Trash, debris and/or other waste materials	X
	Dumping or disposal areas	
	Construction/demolition debris and/or dumped fill dirt	X
	Surface water discoloration, odor, sheen, and/or free floating product	
	Strong, pungent or noxious odors	
	Exterior pipe discharges and/or other effluent discharges	
<i>Other Notable Site Features</i>	Surface water bodies	X
	Quarries or pits	
	Wells	

Site Operations, Processes, and Equipment

Elevators

During the site reconnaissance, Terracon observed a hydraulic elevator, located in the northern portion of the main building at the South Plant. Mr. Talbott stated that the elevator was installed during the plant renovation in the 1970's, and was used to transport people and materials used in the water treatment process. Access was not available to observe the elevator pit, but Terracon observed the elevator control area and the elevator's hydraulic reservoir. Terracon observed staining on the concrete floor under the hydraulic fluid pump and reservoir. Terracon observed hydraulic maintenance logs by ThyssenKrupp Elevator on the control mechanism dated 2004. The logs indicated that the system was operating normally and the tests were satisfactory. No information was observed for the elevator system prior to 2004. Based on the age of the elevator, it is possible that the hydraulic fluid used in the elevator contained PCBs. Based on the lack of information for the majority of the time the elevator was in operation, the age and type of system, the observed staining associated with the hydraulic system, the elevator located in the north side of the main building at the South Plant constitutes a REC to the site at this time.

Air compressors

During the site reconnaissance, one approximately 80-gallon air compressor was observed located in the upper level of the Pump House of the South Plant and one approximately 80-gallon air compressor was observed located in the upper level of the Mixing Building of the North Plant. No staining was observed associated with the air compressors. Based on the lack of staining, the observed air compressors do not constitute RECs to the site at this time.

Water Treatment Systems

The site is a former water treatment plant that reportedly started operations in 1934 and continued operating until 2005. During the site reconnaissance Terracon observed that most of the facility's structures, containers, and equipment are still in place. Based on the nature of the treatment chemicals reportedly utilized the facility, most of which are water soluble and were diluted upon addition, it is unlikely that the chemical treatment processes would be considered a REC. Chemical storage areas and the processing ponds are discussed below.

Testing Laboratory

During the site reconnaissance Terracon observed an analytical testing laboratory located in the Main Building of the South Plant and the Filter Building of the North Plant. The South Plant laboratory contained laboratory equipment, utensils, and several containers 1-gallon or smaller of chemicals used to test water quality. The North Plant laboratory contained utensils and some lab equipment. No staining was observed associated with the chemical containers or the sink drains in the laboratories. Based on the small quantities of chemicals and observed site conditions, the testing laboratories do not constitute RECs to the site at this time.

Aboveground Chemical or Waste Storage

Aboveground Storage Tanks (ASTs)

The following table describes ASTs observed during the site reconnaissance:

#	APPROX. SIZE	CONTENTS	MATERIALS OF CONSTRUCTION	SECONDARY CONTAINMENT	EVIDENCE OF RELEASES	COMMENTS
1	50,000 pound	Solid Limestone or Soda ash	Metal Silo	Concrete pad	Piles of material present in the silo base	Vacuum system for material conveyance
1	6,000 gal	Aluminum sulfate	Metal AST	Concrete pad with concrete walls	Staining below tank	South Plant Chemical Mixing Bld
1	5,500 gal	Aluminum sulfate	Fiberglass AST	Concrete pad with concrete walls	None	South Plant Chemical Mixing Bld
1	3,000 gal	Bleach / Chlorine	Fiberglass AST	Fiberglass basin with drain to floor drain	None	South Plant Main Bld Chlorine Rm
3	4,000 gal	Bleach / Chlorine	Metal AST	Concrete pad with concrete walls	None	North Plant Bleach Bld

#	APPROX. SIZE	CONTENTS	MATERIALS OF CONSTRUCTION	SECONDARY CONTAINMENT	EVIDENCE OF RELEASES	COMMENTS
2	6,500 gal	Aluminum sulfate	Fiberglass AST	Concrete pad	None	North Plant Chemical Mixing Bld

During the site reconnaissance, Terracon observed eight ASTs, ranging in size from approximately 3,000 gallons to 6,500 gallons, and one 50,000 pound capacity silo. The ASTs appeared to be empty and were associated with former water treatment operations. Terracon observed labeling on the ASTs that indicated contents of bleach/chlorine and Aluminum sulfate. The silo reportedly was still partially full of Soda ash. Terracon observed minor staining associated with the ASTs. The ASTs and silo contained or previously contained materials that were water soluble and that treated the water to be used for human consumption. Based on the containers being apparently empty, minor amount of observed staining, and former contents, the ASTs do not constitute RECs to the site at this time. Based on the reported contents and observed site conditions, the silo does not constitute a REC to the site at this time. Although the ASTs and silo are not considered RECs, some residual chemicals may be present in each of the listed storage areas.

Drums, Barrels and/or containers 5 gallons or greater

During the site reconnaissance Terracon observed approximately twenty 55-gallon drums and barrels throughout the site that were partially full, and approximately twenty-nine 55-gallon drums that were apparently empty. Labeling on the containers indicated contents of waste oil, diesel fuel, and water treatment flocculent polymer. Releases or staining were not observed associated with the 55-gallon containers.

Terracon observed approximately twenty-three 5-gallon partially full containers in buildings throughout the site. Labeling on the containers indicated contents of Food Grade HTC Oil, gasoline, kerosene, and chlorinated granules. Approximately ten 5-gallon and several smaller sized containers were observed in the Maintenance Building located in the eastern portion of the North Plant. The containers were partially full with labeling indicating contents of paint, hydraulic oil, antifreeze, paint thinner, weed killer, and vegetable oil.

Based on the absence of staining or releases, the 5-gallon to 55-gallon containers do not constitute RECs to the site at this time.

The following table describes drums, barrels, and 5-gallon containers observed located at the South Plant during the site reconnaissance:

#	SIZE (GAL)	CONTENTS	MATERIALS OF CONSTRUCTION	LOCATION	EVIDENCE OF RELEASES	COMMENTS
2	55	CAT FLOC® TL	Plastic	Main Bld Basement	None	Liquid flocculate polymer
1	20	COL LT 20	Paper Bag in Cardboard	Main Bld Basement	None	Solid flocculate polymer
1	30	Unknown Solid	Metal	Main Bld Basement	None	With lid in place
1	5	Induclor®	Plastic	Main Bld Chlorine Room	None	Dry chlorinating granules
1	55	Caustic Soda Liquid 50%	Plastic	Chemical Mixing Bld	None	
4	55	Empty	Metal	N. Side of Equip Storage Bld	None	With lid in place
2	55	Unknown Liquid	Metal	N. Side of Equip Storage Bld	None	Labeled "Waste Oil" with spray paint
2	55	Unknown Solid	Metal	Inside Equipment Storage Bld	None	With lids in place
5	5	Gasoline / Kerosene	Plastic	E. Side of Equip Storage Bld	None	Inside Metal Cabinet

The following table describes drums, barrels, and 5 gallon containers observed located at the North Plant during the site reconnaissance:

#	SIZE	CONTENTS	MATERIALS OF CONSTRUCTION	LOCATION	EVIDENCE OF RELEASES	COMMENTS
1	55	Unknown Liquid	Metal	Inside Maintenance Bld	None	With lid in place
7	5	280 Food Grade HTC Oil	Plastic	Inside Maintenance Bld	None	With lids in place
10	5	Unknown Liquid	Plastic	Inside Maintenance Bld	None	With lids in place
1	55	Magnifloc	Metal	Filter Bld Basement	None	With lid in place
1	35	Floran Top	Plastic	Filter Bld Basement	None	With lid and hand pump in place

#	SIZE	CONTENTS	MATERIALS OF CONSTRUCTION	LOCATION	EVIDENCE OF RELEASES	COMMENTS
2	55	Floran Catalyst	Plastic	Filter Bld Basement	None	With lids in place
1	35	Labeled "Zep All Purpose Cleaner"	Metal	Inside Chemical Bld	None	With lid and hand pump in place
2	55	Unknown Liquid	Metal	Northeast corner of site	None	Labeled "Diesel Fuel Pad" with spray paint – lids in place
7	55	Unknown Solid	Metal	East side of Alum Storage Bld	None	With lids in place
25	55	Empty	Metal	East side of Alum Storage Bld	None	With lids in place

Material Safety Data Sheet (MSDS)

Terracon observed MSDSs posted in chemical handling areas throughout the site. Terracon also observed a MSDS binder located in the office of the South Plant that apparently contained information on materials that have been used at the site. Terracon identified approximately 25 different petroleum product types, and approximately 7 materials with contents that are considered a hazardous material. The locations for storage and usage of these materials was not necessarily indicated in the MSDS information reviewed. Below are tables with apparent non-hazardous water treatment process materials, hazardous materials, and petroleum products.

WATER TREATMENT PROCESS MATERIALS – NON HAZARDOUS	
Product Name	Notes
Chlorine	
Hydrodarco	Activated Carbon
Floran Catalyst	Flocculent Polymer
Magnafloc LT 225	Flocculent Polymer
Sodium Carbonate, Anhydrous	Soda ash
Sodium Silicofluoride	Flouride
Stablcil Formazin Solution	Flocculent Polymer

HAZARDOUS MATERIALS	
Product Name	Notes
Atrazine 4L	Herbicide
Battery Acid	Sulfuric Acid / Lead / Arsenic
Battery Terminal Protector	Aerosol / SARA 313

HAZARDOUS MATERIALS	
Product Name	Notes
Chloroethene Solvent	Chlorinated Solvent (1985)
Electro Solve Solvent Degreaser	(1985) reportedly non-hazardous when hardens
Mercury	(1981)
Steam Cleaning Compound	RCRA D002
Methanol	

PETROLEUM PRODUCTS	
Common Name	Notes
Air Tool Oil	
Brake Fluid	Glycol Ether
Diesel Fuel	
Diesel Oil	
Gasoline – Regular	
Gasoline – Regular Unleaded	
Gasoline - Unleaded	
Gasoline – Premium Unleaded	
Gasoline – Unleaded Oxygenated	
Gear Lube	
Heavy Duty LC Grease	
Hi Temp Multi Purpose Grease	
Hydraulic Fluid / Oil	
Motor Oil	
STA-BIL	Aromatic Solvent Naptha
Starting Fluid	Aliphatic Petroleum Distillate
Thread Cutting Oil	Paraffinic Mineral Oil
Torque Fluid	
Transmission Fluid / Oil	
Transaxle Fluid	
Two-Cylce Engine Oil	
WD-40	Aliphatic Petroleum Distillate
Weld-On C-60	Methyl Ethyl Ketone

Underground Chemical or Waste Storage, Drainage or Collection Systems

Septic Tanks and/or Leach Fields

Terracon observed a septic leach field and septic tank lids located in the southeastern portion of the North Plant. Mr. Talbott informed Terracon that the septic system handled only the waste from the facility restrooms and he thought that the interior floor drains do not

discharge into the septic system. According to Mr. Talbott, a septic leach field and tank are located on the eastern side of the Main Building at the South Plant. Based on reported use of the septic system for domestic waste only, the septic systems do not constitute RECs to the site at this time.

Interior Floor Drains

During the site reconnaissance, Terracon observed interior floor drains in all of the buildings on site. According to Mr. Talbott the interior floor drains discharge into a site perimeter drainage system. The perimeter drainage system reportedly handles the interior floor drains and site storm water runoff, and discharges into a ditch on the north side of Highway 66, at the southeast corner of the North Plant. Terracon observed that the majority of the floor drains contained no staining or only minor staining apparently from the water treatment materials. Petroleum products or hazardous materials were not observed near the floor drains with the exception of the floor drain located in the Maintenance Building in the North Plant.

Terracon observed several small containers and 5-gallon buckets containing petroleum products or hazardous materials within approximately 15 feet of the floor drain in the Maintenance Building. No staining was observed on the floor drain. Based on review of historical aerial photographs, the building was apparently built in the late 1970's. Mr. Talbott was not aware of vehicles being serviced at the maintenance building on site. Based on the length of time the Maintenance Building has been in place, building use, possible presence and use of hazardous materials and petroleum products identified from MSDS information, and proximity of observed hazardous materials and petroleum products, potential discharges to the interior floor drain in the Maintenance Building at the North Plant is considered a REC to the site at this time.

Electrical Transformers / PCBs

Other Equipment

During the site reconnaissance, three pad-mounted electrical equipment boxes and two pole mounted transformers were observed located on site. Mr. Talbott stated that the electrical power equipment for the site is owned and operated by the City of Longmont. One pad mounted box was observed located on the northern border of the South Plant, north of the Pump House; one was located northeast of the Filter Building of the North Plant; and one was located southeast of the Sludge Belt Press Building of the North Plant. The pole mounted transformers were observed located near the eastern border of the North Plant, one was located east of the Maintenance Building; and one was located east of the Residual Pond. The electrical equipment boxes appeared to be in good condition, and no staining was observed associated with the boxes. No staining was observed on the transformers, poles, or ground associated with the pole mounted transformers. Based on the absence of observed staining or releases, the pad-mounted electrical equipment boxes and pole mounted transformers do not constitute RECs to the site at this time.

Releases or Potential Releases

Trash, debris and/or other waste materials

During the site reconnaissance Terracon observed areas of debris - used operations equipment and parts located on the south side of the equipment storage building, the south side of the pump house and the clearwell building, and on the east side of the clearwell building at the South Plant. The materials observed consisted of plastic, metal, and wood. No staining or hazardous materials were observed associated with the debris piles. Based on the absence of observed staining or associated hazardous materials, the areas of debris do not constitute RECs to the site at this time.

Construction/demolition debris and/or dumped fill dirt

During the site reconnaissance Terracon observed areas of piled soil materials located on the south side of the sludge storage pad at the North Plant, and near the east-central border of the South Plant. The materials appeared to consist of soil and gravel. According to Mr. Talbott, the piles are clean materials that are used for backfill of waterline repairs off-site. No staining or hazardous materials were observed associated with the piles. Based on reported use and absence of observed staining or releases, the piles of soil materials do not constitute RECs to the site at this time.

Other Notable Site Features

Surface Water Bodies

During the site reconnaissance Terracon observed two large ponds located in the northern portion of the North Plant. According to Mr. Talbott the ponds were used as settling ponds and were filled from backwash water of the filter cleaning process of the North and South Plants. Reportedly sludge from the ponds was routinely pumped out and into the belt press building where it was processed. According to Mr. Talbott, sludge from the site was tested and classified as Class A sludge to be used as an agricultural fertilizer. Materials that may have been deposited in the ponds through the water treatment process are; Aluminum sulfate, carbon, flocculent polymers, and Copper sulfate. Constituents that were present in the raw water, from the St Vrain Creek Watershed, prior to entering the water treatment plant may have also been deposited and concentrated in the settling ponds. Based on the presumed filtration of raw water from non-contaminated sources, it is likely that naturally occurring elements and compounds in the raw water would have been concentrated through the filtration, backwash, and deposited in the ponds. The regular removal of sludge should have reduced the concentrations of naturally occurring and process-added compounds in the pond bottoms. It is unclear whether the ponds were constructed with sufficiently impermeable bottoms to prevent leaching under the ponds. Based on the length of time that these ponds were utilized and the potential for leaching, these ponds are considered a REC.

5.4 Interviews Conducted During Visual Reconnaissance

The following individuals were interviewed regarding the presence or absence of the features listed in the table above.

Interviewee

<u>Interviewer</u>	<u>Interviewee</u>	<u>Title</u>	<u>Date</u>
Eric A. Buol	Mr. George Talbott	Plant Supervisor	September 12, 2011

Terracon interviewed Mr. George Talbott, the water treatment plant supervisor, on September 12, 2011. Mr. Talbott stated that he has been associated with the site since he started working there in 1987. Mr. Talbott led Terracon through the South Plant and North Plant and described historical site processes, materials, and chemicals. Mr. Talbott showed Terracon locations of the plant offices and files with records that had been left on site. According to Mr. Talbott the plant ceased operations in 2005 due to the construction of a new water treatment plant at a different location. Mr. Talbott stated that the facility grounds are used for parts storage and occasional police/fire department training. Mr. Talbott stated that the North Plant has electrical power supply from the City of Longmont and each plant has an on-site septic system that serviced the facility restrooms. According to Mr. Talbott the remainder of the utility services have been disconnected from the site. According to Mr. Talbott each plant has a site perimeter drain that discharges into the Ute Highway ditch located near the southeast corner of the North Plant.

5.5 Site Reconnaissance Summary

The site is a former water treatment plant located at 4651 and 4652 Ute Highway, southeast of Lyons, Boulder County, Colorado. The water treatment plant is divided by Ute Highway (SH 66) into the North Plant and South Plant. The South Plant was built in 1934 with additions and renovations in the 1950's and 1970's. An equipment storage building was built at the South Plant in 2004. The North Plant was built in 1967 with two additional site buildings constructed in the 1970's and 1980's. Both water treatment plants ceased operations in 2005 and are now used for storage and equipment spare parts. Most of the facilities' structures, containers, and equipment are still in place.

While in operation the plants used large quantities of pH adjusters, flocculants, fluoride, and chlorine source materials to produce drinking water from raw water of the St Vrain Creek Watershed. Smaller quantities of hazardous substances and petroleum products were used to operate, maintain, and clean the equipment used to operate the plants. Reportedly the Maintenance Building located in the eastern portion of the North Plant is where the operations equipment was serviced. Terracon observed a floor drain in the Maintenance Building which reportedly was connected to a site perimeter drain system. Based on the

length of time the Maintenance Building has been in place, building use, possible presence and use of hazardous materials and petroleum products identified from MSDS information, and proximity of observed hazardous materials and petroleum products, discharges to the interior floor drain in the Maintenance Building at the North Plant are considered a REC to the site at this time.

Terracon observed staining on the concrete floor under a hydraulic elevator fluid reservoir in the South Plant filtration building. The elevator pit was not accessible for a visual assessment. Based on the age of the building, the hydraulic fluid used in the elevator system may have contained PCBs. Based on the staining observed and the potential for PCBs, this elevator is considered a REC.

The backwash ponds located on the North Plant are considered a REC due to the potential for naturally occurring elements and compounds to have been concentrated through the backwash process and accumulated in the pond bottoms, due to the potential for process-added compounds to have accumulated in the pond bottoms, and due to the potential for leaching to occur under the ponds.

6.0 ADJOINING PROPERTY RECONNAISSANCE

Visual observations of adjoining properties (from site boundaries) are summarized below.

Adjoining Properties

Direction	Description
North	To the north of the South Plant is Ute Highway (SH 66). To the north of the North Plant is a canal followed by agricultural/residential property.
East	To the east of the South Plant is residential property and St Vrain Creek. To the east of the North Plant is Madhava Honey facility and a canal.
South	To the south of the South Plant is the St Vrain Creek followed by residential property. To the south of the North Plant is Ute Highway (SH 66).
West	To the west of the South Plant is a residence and St Vrain Creek. To the west of the North Plant is The Anchorage boat storage and well drilling business, Greening by Gwenn plant nursery, and agricultural/residential property.

During site reconnaissance Terracon observed approximately 100 55-gallon barrels on the north side of the Madhava Honey building, the adjoining property to the east of the North Plant. Based on observations from the site border the barrels appeared to be empty. Based on review of historical aerial photographs the barrels were not in-place until the current structure was built in the early 1980s. No staining was observed associated with the containers. Based on the reported property operations, historical review, and site observations the Madhava Honey facility and associated 55-gallon barrels do not constitute RECs to the site at this time.

7.0 ADDITIONAL SERVICES

Pursuant to the client's request, a comprehensive asbestos survey for the site structures was conducted. The asbestos survey was completed by Terracon and the report will be provided under separate cover.

8.0 FINDINGS, CONCLUSIONS, AND RECOMMENDATIONS

8.1 Findings and Conclusions

This Phase I ESA was performed in accordance with our proposal dated August 4, 2011, and was conducted consistent with the procedures included in ASTM E 1527-05, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*. The ESA was conducted under the supervision or responsible charge of Dana L. Harris, environmental professional. Mr. Buol performed the site reconnaissance on September 12, 2011.

A cursory summary of findings is provided below. It should be recognized that details were not included or fully developed in this section, and the report must be read in its entirety for a comprehensive understanding of the items contained herein.

- The site is a former water treatment plant located at 4651 and 4652 Ute Highway, southeast of Lyons, Boulder County, Colorado. The water treatment plant facility is separated into two parcels that are divided by Ute Highway (SH 66) into the North Plant and South Plant. The South Plant was built in 1934 with additions and renovations in the 1950's and 1970's. An equipment storage building was built at the South Plant in 2004. The North Plant was built in 1967 with two additional site buildings constructed in the 1970's and 1980's. Both water treatment plants ceased operations in 2005 and are now used for storage and equipment spare parts. Most of the facilities' structures, containers, and equipment are still in place.
- While in operation the treatment plants used large quantities of pH adjusters, flocculants, fluoride, and chlorine-source materials to produce drinking water from raw water of the St Vrain Creek Watershed. Smaller quantities of hazardous substances and petroleum products were used to operate, maintain, and clean the equipment used to operate the plants. Reportedly the Maintenance Building located in the eastern portion of the North Plant is where the operations equipment was serviced. Terracon observed a floor drain in the Maintenance Building which reportedly was connected to a site perimeter drain system. Based on the length of time the Maintenance Building has been in place, building use, possible presence and use of hazardous materials and petroleum products identified from MSDS information, and proximity of observed hazardous materials and petroleum products, discharges to the interior floor drain in the Maintenance Building at the North Plant are considered a REC to the site at this time.
- Terracon observed staining on the concrete floor under a hydraulic elevator fluid reservoir in the South Plant filtration building. The elevator pit was not accessible for a visual assessment. Based on the age of the building, the hydraulic fluid used in

the elevator system may have contained PCBs. Based on the staining observed and the potential for PCBs, this elevator is considered a REC.

- The backwash ponds located on the North Plant are considered a REC due to the potential for naturally occurring elements and compounds to have been concentrated through the backwash process and accumulated in the pond bottoms, due to the potential for process-added compounds to have accumulated in the pond bottoms, and due to the potential for leaching to occur under the ponds.
- Adjoining the site to the north of the South Plant is Ute Highway (SH 66). To the north of the North Plant is a canal followed by agricultural/residential property. Adjoining the site to the east of the South Plant is residential property and St Vrain Creek. To the east of the North Plant is Madhava Honey facility and a canal. Adjoining the site to the south of the South Plant is the St Vrain Creek followed by residential property. To the south of the North Plant is Ute Highway (SH 66). Adjoining the site to the west of the South Plant is a residence and St Vrain Creek. To the west of the North Plant is The Anchorage boat storage and well drilling business, Greening by Gwenn plant nursery, and agricultural/residential property. During site reconnaissance, Terracon observed approximately 100 55-gallon barrels on the north side of the Madhava Honey building, the adjoining property to the east of the North Plant. Based on observations from the site border the barrels appeared to be empty. Based on review of historical aerial photographs the barrels were not in-place until the current structure was built in the early 1980s. No staining was observed associated with the containers. Based on the reported property operations, historical review, and site observations the Madhava Honey facility and associated 55-gallon barrels do not constitute RECs to the site at this time.

8.2 Recommendations

Based on the scope of services, limitations, and findings of this assessment, Terracon did identify RECs that warrant further action.

- If the elevator can be structurally shored, the elevator pit should be visually assessed for potential hydraulic fluid releases. If potential releases are identified, it may be necessary to conduct sampling within the elevator shaft and pit for hydraulic fluid and PCBs, and possibly in subsurface soils and groundwater under and around the elevator pit location. The concrete floor under the hydraulic fluid reservoir should be assessed for PCBs.
- Discharges to the floor drain in the maintenance building should be assessed through soil and groundwater sampling in the vicinity of the maintenance building, the discharge point for the drain (believed to be a ditch) and along the piping

connecting the drain to the discharge point. It may be necessary to conduct a preliminary investigation to verify the path of the piping and the discharge point. Soil and groundwater samples should be analyzed for volatile organic compounds (VOCs), petroleum hydrocarbons, and heavy metals.

- The backwash ponds at the North Plant are considered a REC. The level of additional assessment of these ponds may depend on the intended future use of the ponds. It may be warranted to assess subsurface soils and groundwater under and in the vicinity of the ponds for metals, sulfates, nitrates, polymer constituents, pH, and other constituents contained in the raw waters and process chemicals.
- Although not considered a REC, the future use of the site may dictate a significant amount of decommissioning, including proper characterization and disposal of various equipment and various storage containers and associated residual products. If the existing facility is to be re-occupied, interior and exterior structures may require decontamination or special cleaning and verification sampling by an industrial hygienist.

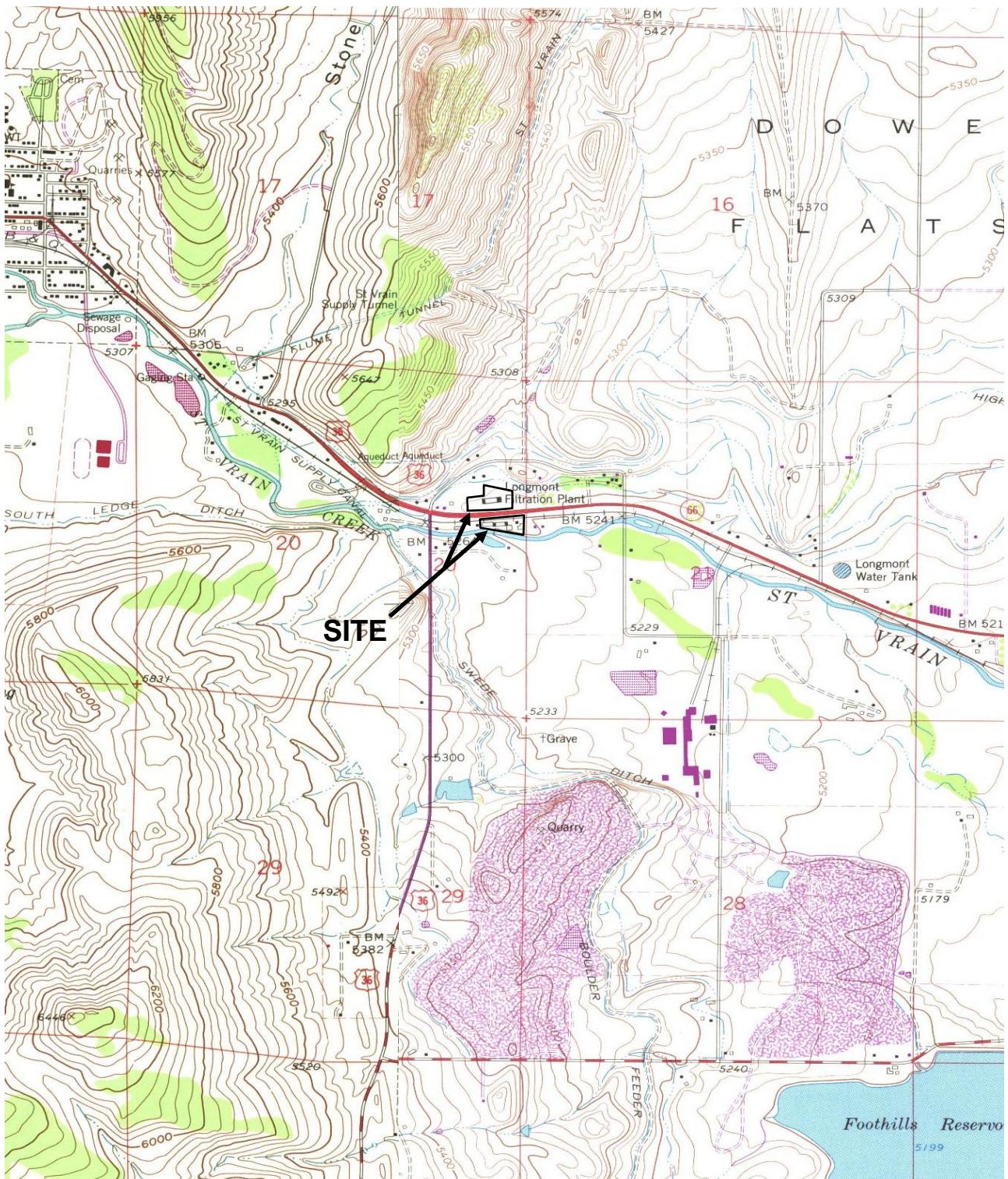
9.0 DECLARATION

I, Dana L. Harris, declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in Section 312.10 of 40 CFR 312; and I have the specific qualifications based on education, training, and experience to assess a site of the nature, history, and setting of the subject site. I have developed and performed the All Appropriate Inquiries in conformance with the standards and practice set forth in 40 CFR Part 312.

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APPENDIX A

Exhibit 1 - Topographic Map, Exhibit 2 – Site Diagram



Source: USGS 7.5-Minute Series Topographic Maps:
Hygiene and Lyons, Colorado Quadrangle



NORTH

Exhibit 1
TOPOGRAPHIC MAP
Published: 1968
Photorevised: 1979 / 1978
SCALE: 1" ~ 2,000'

Terracon

Longmont Public Works & Natural Res.
Ute Hwy Water Treatment Plant
Phase I ESA
Lyons, Boulder County, Colorado
Project No. 22117704

ESA SITE BOUNDARY – (CHAIN | LINKED FENCE)

(CHAIN LINKED EENCE)

**RESIDENTIAL /
AGRICULTURAL**

NURSERY
GREENHOUSE

BOAT STORAGE AND
WELL DRILLING

2

4

The diagram illustrates a site plan for a residential/agricultural area. A dashed line labeled 'CANAL' runs diagonally across the top. Two large, irregularly shaped areas labeled 'RESIDUAL POND' are situated on the right side. A dashed line labeled 'CANAL' also runs horizontally across the bottom. On the left side, there is a rectangular building labeled 'HOUSE' and a smaller rectangular building labeled 'BARN'. On the far right, a small circle labeled 'SLUDGE PUMP' is connected by a dashed line to a vertical dashed line labeled 'SLUDGE PUMP' at the bottom right corner.

The diagram illustrates the layout of a facility with the following components:

- Buildings:**
 - HONEY PRESS BLD
 - SLUDGE STORAGE PAD
 - ALUM STORAGE BUILDING
 - BLEACH BUILDING
 - 55-GAL DRUMS
 - FLOC-SED BASIN
 - FILTER BLD
 - OFFICE / LAB
 - POLE MOUNTED TRANSFORMER
 - POD MOUNTED TRANSFORMER
 - MAINTENANCE BUILDING
 - SEPTIC LEACH FIELD
- Storage and Equipment:**
 - SLUDGE BELT PRESS BLD
 - 55-GAL DRUMS
 - POD MOUNTED TRANSFORMER
 - POLE MOUNTED TRANSFORMER
 - SEPTIC TANK LIDS
- Environmental and Site Features:**
 - SITE PERIMETER DRAIN GRATE
 - FLOOR DRAIN
 - PERIMETER DRAIN OUTLET
 - LANDSCAPING
 - PILED SOIL / GRAVEL MATERIAL

UTE HIGHWAY - SIAIE HIGHWAY

DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

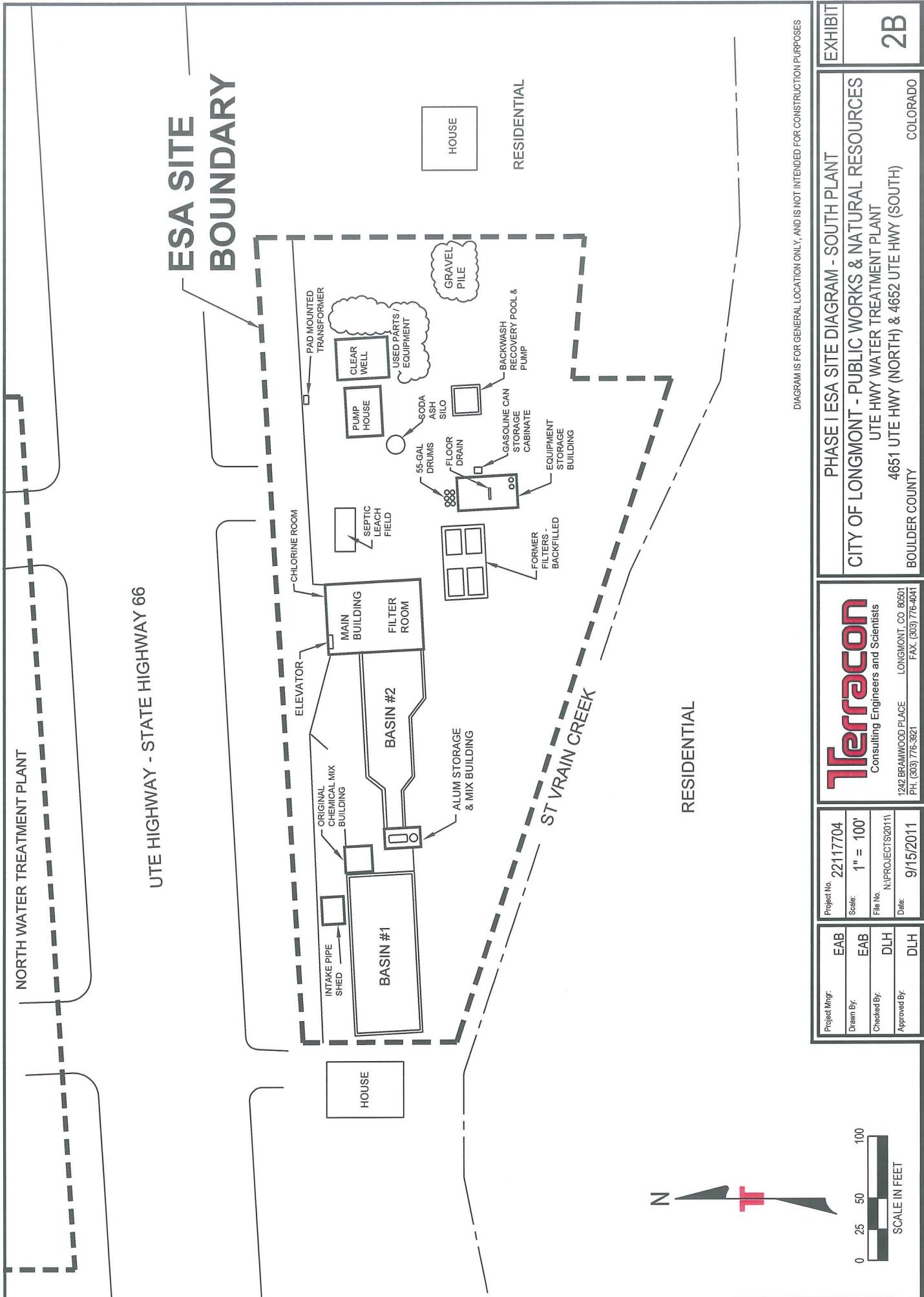
PHASE I ESA SITE DIAGRAM - NORTH PLANT

ONT - PUBLIC WORKS & NATURAL RESOURCES

UTE HWY WATER TREATMENT PLANT

ACI 318-14

Terracon	
Consulting Engineers and Scientists	
Project Mgr.:	EAB
Drawn By:	EAB
Checked By:	DLH
Approved By:	DLH
Project No.:	22117704
Scale:	1" = 100'
File No.:	N/PROJECTS2011
Date:	9/15/2011
1240 BRAMWOOD PLACE	
LONGMONT, CO 80501	
Ph.:	(303) 773-3321
FAX:	(303) 776-0441



APPENDIX B

Description of Terms and Acronyms

Description of Selected General Terms and Acronyms

Term/Acronym	Description
ACM	<p>Asbestos Containing Material. Asbestos is a naturally occurring mineral, three varieties of which (chrysotile, amosite, crocidolite) have been commonly used as fireproofing or as binding agents in construction materials. Inhalation of asbestos fibers has been documented to cause asbestosis (scarring of the lung), lung cancer, and mesothelioma (a cancer of the chest wall lining).</p> <p>Most Federal and State agencies define ACM as a material containing more than one (1) percent asbestos, although some states, such as California, define ACM as material containing 0.1% or more asbestos. In order to determine the ACM status of suspect building materials, a minimum number of samples must be collected and analyzed, depending on the type and quantity of the suspect material. A suspect material can only be confirmed as non-ACM when analytical results of all required samples are below applicable regulatory limits. Asbestos concentrations are generally determined using polarized light microscopy or transmission electron microscopy. An asbestos containing material may be classified as either friable or non-friable. Friable materials are those that, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure. Non-friable ACM are materials in which the asbestos fibers are more firmly bound in a matrix of tar, plastic or other such material, and which have a lower potential for asbestos fiber release.</p> <p>Federal and State regulations require that an asbestos survey be performed prior to renovation, dismantling, demolition or other activities that may disturb suspect or confirmed ACM unless such materials are removed as ACM prior to planned disturbances. ACM removal may also be required if confirmed ACM becomes damaged, or if renovation or demolition activities could result in damage to confirmed or suspect ACM. Depending upon the quantity, notification to Federal or State regulatory agencies may be required prior to ACM removal (abatement) operations. Abatement of friable or potentially friable ACM must be performed by a licensed abatement contractor in accordance with applicable federal, state, or local regulations. OSHA worker protection regulations will also apply.</p>
AHERA	Asbestos Hazard Emergency Response Act
AST	Above Ground Storage Tanks. ASTs are generally described as storage tanks less than 10% of which are below ground (i.e., buried). Tanks located in a basement, but not buried, are also considered ASTs. Whether, and the extent to which, an AST is regulated, is determined on a case-by-case basis and depends upon tank size, its contents and the jurisdiction of its location.
AULs	Activity and Use Limitations
BGS	Below Ground Surface
BTEX	Benzene, Toluene, Ethyl benzene, and Xylenes. BTEX are VOC components found in gasoline and commonly used as analytical indicators of a petroleum hydrocarbon release.
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act (a.k.a. Superfund). CERCLA is the federal act that regulates abandoned or uncontrolled hazardous waste sites. Under this Act, joint and several liability may be imposed on potentially responsible parties for cleanup-related costs.
CERCLIS	Comprehensive Environmental Response, Compensation and Liability Information System. An EPA compilation of sites having suspected or actual releases of hazardous substances to the environment. CERCLIS also contains information on site inspections, preliminary assessments and remediation of hazardous waste sites. These sites are typically reported to EPA by states and municipalities or by third parties pursuant to CERCLA Section 103.
CFR	Code of Federal Regulations
CESQG	Conditionally exempt small quantity generators.
DOT	U.S. Department of Transportation
EPA	U.S. Environmental Protection Agency
ERNS	Emergency Response Notification System. An EPA-maintained federal database which stores information on notifications of oil discharges and hazardous substance releases in quantities greater than the applicable reportable quantity under CERCLA. ERNS is a cooperative data-sharing effort between EPA, DOT, and the National Response Center.
ESA	Environmental Site Assessment

Description of Terms and Acronyms (cont.)

Term/Acronym	Description
FRP	Fiberglass Reinforced Plastic
Hazardous Substance	As defined under CERCLA, this is (A) any substance designated pursuant to section 1321(b)(2)(A) of Title 33, (B) any element, compound, mixture, solution, or substance designated pursuant to section 9602 of this title; (C) any hazardous waste having characteristics identified under or listed pursuant to section 3001 of the Solid Waste Disposal Act (with some exclusions); (D) any toxic pollutant listed under section 1317(a) of Title 33; (E) any hazardous air pollutant listed under section 112 of the Clear Air Act; and (F) any imminently hazardous chemical substance or mixture with respect to which the EPA Administrator has taken action under section 2606 of Title 15. This term does not include petroleum, including crude oil or any fraction thereof which is not otherwise listed as a hazardous substance under subparagraphs (A) through (F) above, and the term does not include natural gas, or synthetic gas usable for fuel (or mixtures of natural gas and such synthetic gas).
Hazardous Waste	This is defined as having characteristics identified or listed under section 3001 of the Solid Waste Disposal Act (with some exceptions). RCRA, as amended by the Solid Waste Disposal Act of 1980, defines this term as a “solid waste, or combination of solid wastes, which because of its quantity, concentration, or physical, chemical, or infectious characteristics may (A) cause, or significantly contribute to an increase in mortality or an increase in serious irreversible, or incapacitating reversible illness; or (B) pose a substantial present or potential hazard to human health or the environment when improperly treated, stored, transported, or disposed of, or otherwise managed.”
IC / EC	Industrial Controls / Engineering Controls
ILP	Innocent Landowner Program
IOP	Innocent Owner/Operator Program
LQG	Large quantity generators.
LUST	Leaking Underground Storage Tank. This is a federal term set forth under RCRA for leaking USTs. Some states also utilize this term.
MCL	Maximum Contaminant Level. This Safe Drinking Water concept (and also used by many states as a ground water cleanup criteria) refers to the limit on drinking water contamination that determines whether a supplier can deliver water from a specific source without treatment.
MSDS	Material Safety Data Sheets. Written/printed forms prepared by chemical manufacturers, importers and employers which identify the physical and chemical traits of hazardous chemicals under OSHA's Hazard Communication Standard.
NESHAP	National Emissions Standard for Hazardous Air Pollutants (Federal Clean Air Act). This part of the Clean Air Act regulates emissions of hazardous air pollutants.
NFRAP	Facilities where there is “No Further Remedial Action Planned,” as more particularly described under the Records Review section of this report.
NGVD	National Geodetic Vertical Datum
NOV	Notice of Violation. A notice of violation or similar citation issued to an entity, company or individual by a state or federal regulatory body indicating a violation of applicable rule or regulations has been identified.
NPDES	National Pollutant Discharge Elimination System (Clean Water Act). The federal permit system for discharges of polluted water.
NPL	National Priorities List, as more particularly described under the Records Review section of this report.
OSHA	Occupational Safety and Health Administration or Occupational Safety and Health Act
PACM	Presumed Asbestos-Containing Material. A material that is suspected of containing or presumed to contain asbestos but which has not been analyzed to confirm the presence or absence of asbestos.
PCB	Polychlorinated Biphenyl. A halogenated organic compound commonly in the form of a viscous liquid or resin, a flowing yellow oil, or a waxy solid. This compound was historically used as dielectric fluid in electrical equipment (such as electrical transformers and capacitors, electrical ballasts, hydraulic and heat transfer fluids), and for numerous heat and fire sensitive applications. PCB was preferred due to its durability, stability (even at high temperatures), good chemical resistance, low volatility, flammability, and conductivity. PCBs, however, do not break down in the environment and are classified by the EPA as a suspected carcinogen. 1978 regulations, under the Toxic Substances Control Act, prohibit manufacturing of PCB-containing equipment; however, some of this equipment may still be in use today.
pCi/l	picoCuries per Liter of Air. Unit of measurement for Radon and similar radioactive materials.
PLM	Polarized Light Microscopy (see ACM section of the report, if included in the scope of services)

Description of Terms and Acronyms (cont.)

Term/Acronym	Description
PST	Petroleum Storage Tank. An AST or UST that contains a petroleum product.
Radon	A radioactive gas resulting from radioactive decay of naturally-occurring radioactive materials in rocks and soils containing uranium, granite, shale, phosphate, and pitchblende. Radon concentrations are measured in picoCuries per Liter of Air. Exposure to elevated levels of radon creates a risk of lung cancer; this risk generally increases as the level of radon and the duration of exposure increases. Outdoors, radon is diluted to such low concentrations that it usually does not present a health concern. However, radon can accumulate in building basements or similar enclosed spaces to levels that can pose a risk to human health. Indoor radon concentrations depend primarily upon the building's construction, design and the concentration of radon in the underlying soil and ground water. The EPA recommended annual average indoor "action level" concentration for residential structures is 4.0 pCi/l.
RCRA	Resource Conservation and Recovery Act. Federal act regulating solid and hazardous wastes from point of generation to time of disposal ("cradle to grave"). 42 U.S.C. 6901 et seq.
RCRA Generators	The RCRA generators list is part of the RCRIS database maintained by EPA and lists facilities that generate hazardous waste as part of their normal business operations, as more particularly defined under Section 5.0 of this report.
RCRA CORRACTS/TSDs	The USEPA maintains a database of RCRA facilities associated with treatment, storage, and disposal (TSD) of hazardous materials, which are undergoing "corrective action". A "corrective action" order is issued when there is a release of hazardous waste or constituents into the environment from a RCRA facility.
RCRA Non-CORRACTS/TSDs	The RCRA Non-CORRACTS/TSD Database is a compilation by the USEPA of facilities, which report storage, transportation, treatment, or disposal of hazardous waste. Unlike the RCRA CORRACTS/TSD database, the RCRA Non-CORRACTS/TSD database does not include RCRA facilities where corrective action is required.
RCRA Violators List	RAATS. RCRA Administrative Actions Taken. RAATS information is now contained in the RCRIS database and includes records of administrative enforcement actions against facilities for noncompliance.
RCRIS	Resource Conservation and Recovery Information System, as defined in the Records Review section of this report.
REC	Recognized Environmental Conditions are defined by ASTM E 1527-05 as "the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of release of any hazardous substances or petroleum products into structures on the property or into the ground, ground water, or surface water of the property." The term includes hazardous substances or petroleum products even under conditions of compliance with laws. The term is not intended to include <i>de minimis</i> conditions that generally do not present a material risk of harm to the public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.
SCL	State "CERCLIS" List (see SPL /State Priority List, below).
SPCC	Spill Prevention, Control and Countermeasures. SPCC plans are required under federal law (Clean Water Act and Oil Pollution Act) for any facility storing petroleum in tanks and/or containers of 55-gallons or more that when taken in aggregate exceed 1,320 gallons. SPCC plans are also required for facilities with underground petroleum storage tanks with capacities of over 42,000 gallons. Many states have similar spill prevention programs, which may have additional requirements.
SPL	State Priority List. State list of confirmed sites having contamination in which the state is actively involved in clean up activities or is actively pursuing potentially responsible parties for clean up. Sometimes referred to as a State "CERCLIS" List.
SQG	Small quantity generators.
SWF	Solid Waste Facility. Landfills listed by a state database.
TPH	Total Petroleum Hydrocarbons
TRI	Toxic Release Inventory. Routine EPA report on releases of toxic chemicals to the environment based upon information submitted by entities subject to reporting under the Emergency Planning and Community Right to Know Act.
TSCA	Toxic Substances Control Act. A federal law regulating manufacture, import, processing and distribution of chemical substances not specifically regulated by other federal laws (such as asbestos, PCBs, lead-based paint and radon). 15 U.S.C 2601 et seq.
USACE	United States Army Corps of Engineers

Description of Terms and Acronyms (cont.)

Term/Acronym	Description
USC	United States Code
USGS	United States Geological Survey
USNRCS	United States Department of Agriculture-Natural Resource Conservation Service
UST	Underground Storage Tank. Most federal and state regulations, as well as ASTM E 1527-05, define this as any tank, incl., underground piping connected to the tank, that is or has been used to contain hazardous substances or petroleum products and the volume of which is 10% or more beneath the surface of the ground (i.e., buried).
VCP	Voluntary Cleanup Program
VOC	Volatile Organic Compound
Wetlands	<p>Areas that are typically saturated with surface or ground water that creates an environment supportive of wetland vegetation (i.e., swamps, marshes, bogs). The Corps of Engineers Wetlands Delineation Manual (Technical Report Y-87-1) defines wetlands as areas inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. For an area to be considered a jurisdictional wetland, it must meet the following criteria: more than 50 percent of the dominant plant species must be categorized as Obligate, Facultative Wetland, or Facultative on lists of plant species that occur in wetlands; the soil must be hydric; and, wetland hydrology must be present.</p> <p>The federal Clean Water Act which regulates “waters of the US,” also regulates wetlands, a program jointly administered by the USACE and the EPA. Waters of the U.S. are defined as: (1) waters used in interstate or foreign commerce, including all waters subject to the ebb and flow of tides; (2) all interstate waters including interstate wetlands; (3) all other waters such as intrastate lakes, rivers, streams (including intermittent streams), mudflats, sandflats, wetlands, sloughs, prairie potholes, wet meadows, playa lakes, or natural ponds, etc., which the use, degradation, or destruction could affect interstate/ foreign commerce; (4) all impoundments of waters otherwise defined as waters of the U. S., (5) tributaries of waters identified in 1 through 4 above; (6) the territorial seas; and (7) wetlands adjacent to waters identified in 1 through 6 above. Only the USACE has the authority to make a final wetlands jurisdictional determination.</p>

Colorado Term/Acronym	Description
SHWS	The State of Colorado does not maintain a SHWS list. See the Federal CERCLIS list and Federal NPL list.
SWF/LF	State and/or Tribal database of solid waste facilities located within Colorado. The database information may include the facility name, class, operation type, area, estimated operational life, and owner.
LUST	State and/or Tribal database of leaking underground storage tanks in the state of Colorado.
UST	State and/or Tribal database of registered storage tanks in the State of Colorado which may include the owner and location of the tanks.
CO ERNS	Listing of spills reported to the CDPHE. Information includes releases of hazardous or potential hazardous chemical/materials into the environment.
AUL	Activity and use limitations include both engineering controls and institutional controls. The Department of Public Health & Environment approve requests to restrict the future use of a property using an enforceable agreement called an environmental real covenant. When a contaminated site is not cleaned up completely, land use restrictions may be used to ensure that the selected cleanup remedy is adequately protective of human health and the environment.
VCP	State and/or Tribal facilities included as Voluntary Cleanup Program sites.

APPENDIX C

Historical Documentation

Client Provided Information

In order to qualify for one of the Landowner Liability Protections (LLPs) offered by the Small Business Relief and Brownfields Revitalization Act of 2001, the User must respond to the following questions. Failure to provide this information to the Environmental Professional may result in significant data gaps, which may limit our ability to identify recognized environmental conditions resulting in a determination that "all appropriate inquiry" is not complete. This form represents a type of interview and as such, the User has an obligation to answer all questions in good faith, to the extent of their actual knowledge.

Site Name: North & South Plants ^{Water Treatment} Site Address: 4651 & 4652 Hwy Lyons, CO 80540
1) Are you aware of any environmental cleanup liens against the site that are filed or recorded under federal, tribal, state or local law (40 CFR 312.25)? No Yes If yes, please explain.

2) Are you aware of any activity and use limitations (AULs), such as engineering controls, land use restrictions or institutional controls that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state or local law (40 CFR 312.26)? No Yes If yes, please explain.

3) As the user of this ESA, do you have any specialized knowledge or experience related to the site or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the site or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business (40 CFR 312-28)? No Yes If yes, please explain. Owner of the properties, Used as Potable Water Treatment Plants.

4) Does the purchase price being paid for this site reasonably reflect the fair market value of the site? If no, have you considered whether the lower purchase price is because contamination is known or believed to be present at the site (40 CFR 312.29)? No Yes If yes, please explain.

A previous appraisal was done in 2007, there is no known contamination on the properties

5) Are you aware of commonly known or reasonably ascertainable information about the site that would help the environmental professional to identify conditions indicative of releases or threatened releases (40 CFR 312.30)? No Yes If yes, please explain.

Owner's Staff operated the plants and are available to assist.

6.) As the user of this ESA, based on your knowledge and experience related to the site, are there any obvious indicators that point to the presence or likely presence of contamination at the site (40 CFR 312.31)? No Yes If yes, please explain.

Request for Information and Documentation

In addition to the specific questions outlined above, the User is requested to provide the following information and documentation, as available. ASTM requires that this information, if available, be provided to the Environmental Professional prior to the site visit.

Item Supplied "X"	Not Applicable, Not Available or Not Known "X"	Item Requested (See Proposal)	Contacts/Comments Or Indicate Attachment
X		Point of Contact for Access	Name/Phone: Larry Wyeno 303-651-8678
X		Current Site Owner	Name/Phone: City of Longmont
X		Current Facility Operator	Name/Phone: City of Longmont
	X	Contacts for Prior Owners	Name/Phone:
	X	Contacts for Prior Occupants	Name/Phone:
X		Access Restrictions	Notify Point of Contact for Access
X		Notification of Special Requirements Regarding Confidentiality	Information is Confidential
X		Legal Description and Diagram/ Survey of Site	See Long Legal Descrip. Attachment
	X	Chain of Title with Grantor/Grantee Summary back to 1940 or first developed use	
X		Reasons for conducting ESA	Verify No Environmental Issues on Properties

Helpful Documents Checklist

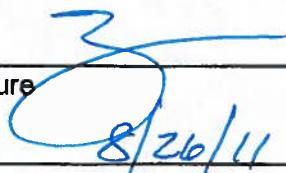
Pursuant to ASTM E 1527-05 § 10.8, do you know whether any of the following documents exist related to the subject property and, if so, whether copies can and will be provided to the Environmental Professional? Check all that apply.

- Environmental site assessment reports
- Environmental compliance audit reports
- Geotechnical studies *Owner may have*
- Reports regarding hydrogeologic conditions on the property or surrounding area
- Registrations for above or underground storage tanks
- Notices or other correspondence from any governmental agency relating to past or current violations of environmental laws with respect to the property or relating to environmental liens encumbering the property
- Registrations for underground injection systems
- Environmental permits/plans, solid waste permits, hazardous waste disposal permits, wastewater permits, NPDES permits, underground injection permits, SPCC plans *Owner may have*

Larry Wyeno, P.E.
Name (Authorized Client Representative)

Engineering Administration
Title

Signature



Date

*Owner may have
Septic Tank Permits &
State Health Permits
Approving WTPs*

Legal Description of North and South Water Treatment Plants, City of Longmont

4651 and 4652 Ute Highway, Lyons, CO 80540

North Water Treatment Plant

Tracts 2264A, 2267A2, 2272 of the Hydro Plant Development in Section 20 of Township 3 North, Range 70 West, 6th Principle Meridian, Boulder County, Colorado

South Water Treatment Plant

Tract 2259, 2260A, Section 20 of Township 3 North, Range 70 West, 6th Principle Meridian, Boulder County, Colorado

Legal Description of North and South Water Treatment Plants, City of Longmont

4651 and 4652 Ute Highway, Lyons, CO 80540

North Water Treatment Plant

Tracts 2264A, 2267A2, 2272 of the Hydro Plant Development in Section 20 of Township 3 North, Range 70 West, 6th Principle Meridian, Boulder County, Colorado

South Water Treatment Plant

Tract 2259, 2260A, Section 20 of Township 3 North, Range 70 West, 6th Principle Meridian, Boulder County, Colorado

Boulder County Health Department Report



Public Health

Environmental Health Division

September 6, 2011

Environmental Site Assessment Inquiry

Environmental Consultant: Eric Buol, Terracon

RE: (Property Location) 4652 Ute Highway, Longmont, CO

Thank you for your request. I have researched this request in our database and have attached the results of that search. (These are within 1 mile of the locations you requested)

For information on underground storage tanks and mine reclamation, the State of Colorado maintains those records.

Be advised that this list includes only those incidents which were reported and included in our database. There may be incidents which were either not reported or not entered in our database.

If I can be of any further assistance, please feel free to contact me at (303) 441-1176.

Sincerely,

Susan Martino, MLA
Environmental Health Specialist II
Boulder County Environmental Health
3450 Broadway, Boulder, CO 80304
303-441-1176
smartino@bouldercounty.org



4652 Ute Highway/historic hazmat

FID	DATE	ADDRESS	MATERIAL	CONDITION	HAZARD	AMOUNT
42		9231992 Hwy 36 and St Vrain Creek	gasoline, oil , antifreeze	Cleaned	soil/water contamination	Unknown

4652 Ute Highway/hazmat1991-2006

FID	DATE_OF_IN	ADDRESS	LOCATION__	CITY	MATERIALS__	QUANTITY_O
103	9/16/1995	4206 Ute Rd	gasoline in storm sewer/Diamond Shamrock	Longmont	unleaded gasoline	0
134	5/7/1996	4050 Ute Highway	Lyons, below wastewater treatment plant, St. Vrain River	Lyons	unknown	unknown
164	11/18/1996	4652 Ute Highway	South Water Plant, Longmont City of Longmont		Chlorine Gas	40 pounds
365	<null>	Hwy 36 and St Vrain Creek				

APPENDIX D

Environmental Database Information

Ute Hwy WTP
499-475 UTE HWY
Longmont, CO 80503

Inquiry Number: 3161018.1s
September 06, 2011

The EDR Radius Map™ Report

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Orphan Summary	23
Government Records Searched/Data Currency Tracking	GR-1

GEOCHECK ADDENDUM

GeoCheck - Not Requested

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

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

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EXECUTIVE SUMMARY

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

TARGET PROPERTY INFORMATION

ADDRESS

499-475 UTE HWY
LONGMONT, CO 80503

COORDINATES

Latitude (North):	40.212500 - 40° 12' 45.0"
Longitude (West):	105.246100 - 105° 14' 46.0"
Universal Tranverse Mercator:	Zone 13
UTM X (Meters):	479057.7
UTM Y (Meters):	4451161.5
Elevation:	5261 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	40105-B2 HYGIENE, CO
Most Recent Revision:	1979
West Map:	40105-B3 LYONS, CO
Most Recent Revision:	1978

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	2006, 2005
Source:	USDA

TARGET PROPERTY SEARCH RESULTS

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

DATABASES WITH NO MAPPED SITES

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

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL..... National Priority List

EXECUTIVE SUMMARY

Proposed NPL..... Proposed National Priority List Sites
NPL LIENS..... Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL..... National Priority List Deletions

Federal CERCLIS list

CERCLIS..... Comprehensive Environmental Response, Compensation, and Liability Information System
FEDERAL FACILITY..... Federal Facility Site Information listing

Federal CERCLIS NFRAP site List

CERC-NFRAP..... CERCLIS No Further Remedial Action Planned

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG..... RCRA - Large Quantity Generators
RCRA-SQG..... RCRA - Small Quantity Generators
RCRA-CESQG..... RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

US ENG CONTROLS..... Engineering Controls Sites List
US INST CONTROL..... Sites with Institutional Controls

Federal ERNS list

ERNS..... Emergency Response Notification System

State- and tribal - equivalent CERCLIS

SHWS..... This state does not maintain a SHWS list. See the Federal CERCLIS list and Federal NPL list.

State and tribal landfill and/or solid waste disposal site lists

SWF/LF..... Solid Waste Sites & Facilities

State and tribal leaking storage tank lists

LUST TRUST..... RAP Site Listing
LAST..... Leaking Aboveground Storage Tank Listing
INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

UST..... Underground Storage Tank Database
AST..... Aboveground Tank List
INDIAN UST..... Underground Storage Tanks on Indian Land

EXECUTIVE SUMMARY

FEMA UST..... Underground Storage Tank Listing

State and tribal institutional control / engineering control registries

AUL..... Environmental Real Covenants List

State and tribal voluntary cleanup sites

VCP..... Voluntary Cleanup & Redevelopment Act Application Tracking Report
INDIAN VCP..... Voluntary Cleanup Priority Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

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

Local Lists of Landfill / Solid Waste Disposal Sites

DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations
ODI..... Open Dump Inventory
HIST LF..... Historical Landfill List
SWRCY..... Registered Recyclers Listing
INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands

Local Lists of Hazardous waste / Contaminated Sites

US CDL..... Clandestine Drug Labs
CDL..... Meth Lab Locations
US HIST CDL..... National Clandestine Laboratory Register

Local Land Records

LIENS 2..... CERCLA Lien Information
LUCIS..... Land Use Control Information System

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System
CO ERNS..... Spills Database

Other Ascertainable Records

RCRA-NonGen..... RCRA - Non Generators
DOT OPS..... Incident and Accident Data
DOD..... Department of Defense Sites
FUDS..... Formerly Used Defense Sites
CONSENT..... Superfund (CERCLA) Consent Decrees
ROD..... Records Of Decision
UMTRA..... Uranium Mill Tailings Sites
MINES..... Mines Master Index File
TRIS..... Toxic Chemical Release Inventory System
TSCA..... Toxic Substances Control Act
FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

EXECUTIVE SUMMARY

HIST FTTS.....	FIFRA/TSCA Tracking System Administrative Case Listing
SSTS.....	Section 7 Tracking Systems
ICIS.....	Integrated Compliance Information System
PADS.....	PCB Activity Database System
MLTS.....	Material Licensing Tracking System
RADINFO.....	Radiation Information Database
FINDS.....	Facility Index System/Facility Registry System
RAATS.....	RCRA Administrative Action Tracking System
METHANE SITE.....	Methane Site Investigations - Jefferson County 1980
Methane Investigation.....	Methane Gas & Swamp Findings
DRYCLEANERS.....	Drycleaner Facilities
NPDES.....	Permitted Facility Listing
AIRS.....	Permitted Facility & Emissions Listing
UMTRA.....	Uranium Mill Tailings Sites
ASBESTOS.....	Asbestos Abatement & Demolition Projects
INDIAN RESERV.....	Indian Reservations
SCRD DRYCLEANERS.....	State Coalition for Remediation of Drycleaners Listing
COAL ASH DOE.....	Steam-Electric Plan Operation Data
PCB TRANSFORMER.....	PCB Transformer Registration Database
COAL ASH EPA.....	Coal Combustion Residues Surface Impoundments List
FINANCIAL ASSURANCE.....	Financial Assurance Information Listing

EDR PROPRIETARY RECORDS

EDR Proprietary Records

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

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

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

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

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

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

STANDARD ENVIRONMENTAL RECORDS

Federal RCRA CORRACTS facilities list

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 03/09/2011 has revealed that there is 1

EXECUTIVE SUMMARY

CORRACTS site within approximately 1 mile of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
SOUTHDOWN INC, LYONS CEMENT PL	5134 UTE HIGHWAY	E 1/2 - 1 (0.591 mi.)	2	7

State and tribal leaking storage tank lists

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

A review of the LUST list, as provided by EDR, and dated 06/14/2011 has revealed that there is 1 LUST site within approximately 0.5 miles of the target property.

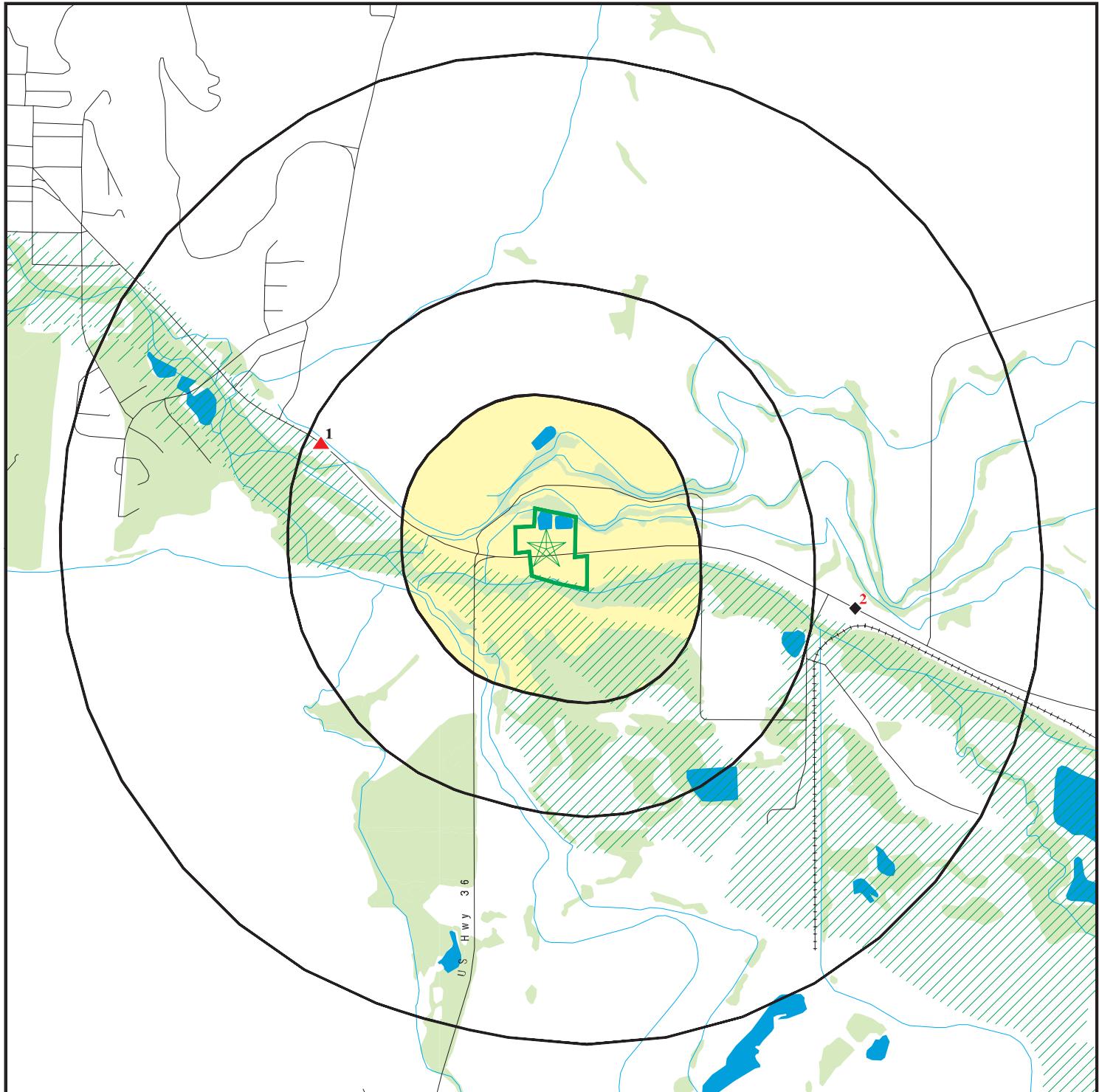
<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
SHAMROCK #635 Status: Implementing CAP	4206 UTE HWY	WNW 1/4 - 1/2 (0.466 mi.)	1	7

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 12 records.

<u>Site Name</u>	<u>Database(s)</u>
GREAT WESTERN SUGAR CORP DUMP	SWF/LF
NISHIDA FARMS	SWF/LF
LONGMONT SWDF, CITY OF	SWF/LF
LYONS CEMENT PLANT	SWF/LF, HIST LF, NPDES
LYONS U-PUMP-IT	LUST
LOUKONEN BROTHERS	UST
U-PUMP-IT #811	UST
THE STORE	UST
DIAMOND SHAMROCK 635	LUST TRUST, UST
RIM ROCK STONE CO	AST
2100 E HWY 119	HMIRS
U-PUMP-IT #811	LUST TRUST

OVERVIEW MAP - 3161018.1s



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

Indian Reservations BIA

Oil & Gas pipelines from USGS

100-year flood zone

500-year flood zone

National Wetland Inventory

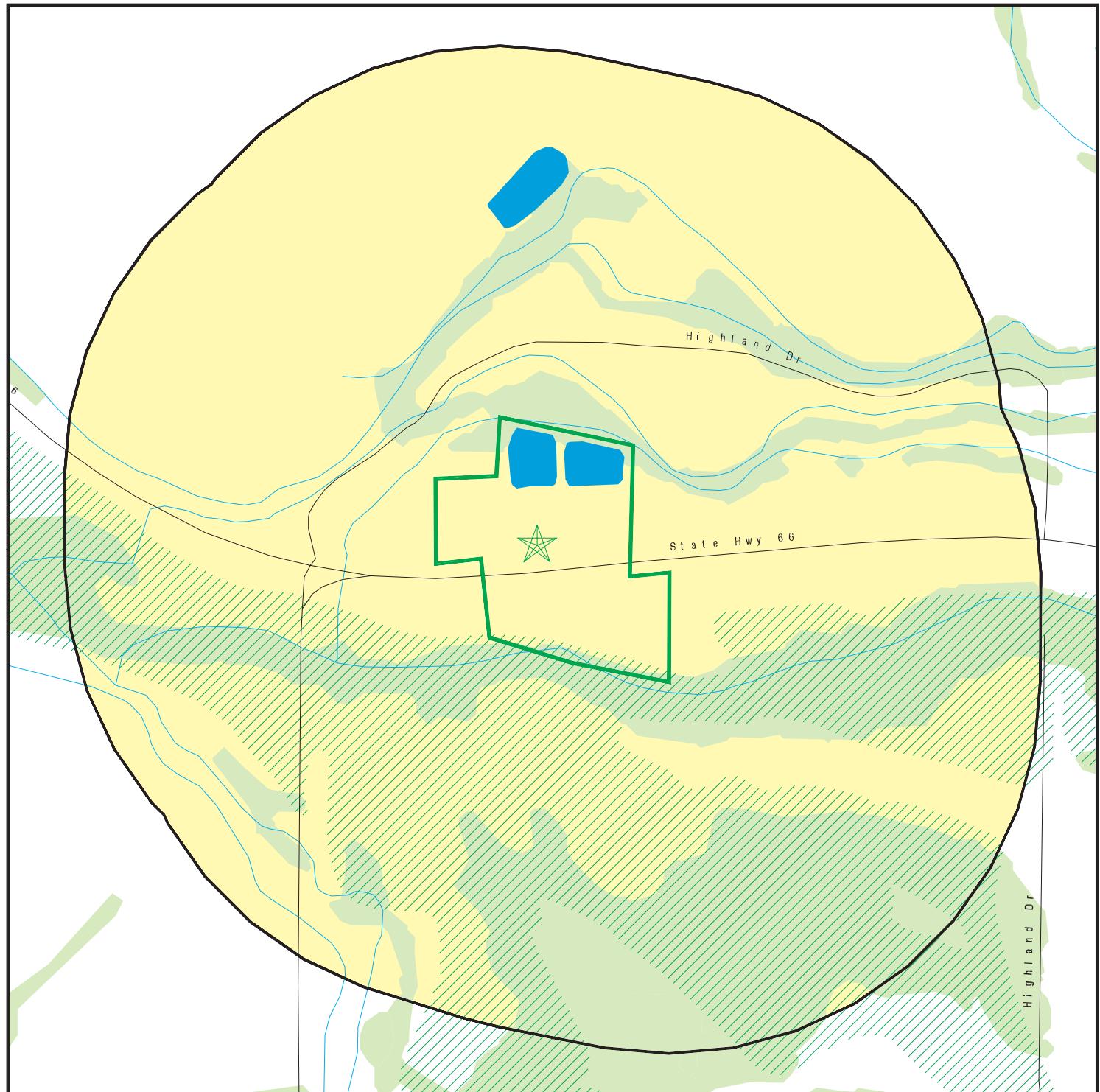
State Wetlands

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

SITE NAME: Ute Hwy WTP
ADDRESS: 499-475 UTE HWY
 Longmont CO 80503
LAT/LONG: 40.2125 / 105.2461

CLIENT: Terracon
CONTACT: Eric Buol
INQUIRY #: 3161018.1s
DATE: September 06, 2011 3:34 pm

DETAIL MAP - 3161018.1s



Target Property

- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites

0 1/16 1/8 1/4 Miles

- Indian Reservations BIA
- Oil & Gas pipelines from USGS
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands



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

SITE NAME: Ute Hwy WTP
 ADDRESS: 499-475 UTE HWY
 Longmont CO 80503
 LAT/LONG: 40.2125 / 105.2461

CLIENT: Terracon
 CONTACT: Eric Buol
 INQUIRY #: 3161018.1s
 DATE: September 06, 2011 3:34 pm

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<u>STANDARD ENVIRONMENTAL RECORDS</u>								
<i>Federal NPL site list</i>								
NPL		1.000	0	0	0	0	NR	0
Proposed NPL		1.000	0	0	0	0	NR	0
NPL LIENS		TP	NR	NR	NR	NR	NR	0
<i>Federal Delisted NPL site list</i>								
Delisted NPL		1.000	0	0	0	0	NR	0
<i>Federal CERCLIS list</i>								
CERCLIS		0.500	0	0	0	NR	NR	0
FEDERAL FACILITY		1.000	0	0	0	0	NR	0
<i>Federal CERCLIS NFRAP site List</i>								
CERC-NFRAP		0.500	0	0	0	NR	NR	0
<i>Federal RCRA CORRACTS facilities list</i>								
CORRACTS		1.000	0	0	0	1	NR	1
<i>Federal RCRA non-CORRACTS TSD facilities list</i>								
RCRA-TSDF		0.500	0	0	0	NR	NR	0
<i>Federal RCRA generators list</i>								
RCRA-LQG		0.250	0	0	NR	NR	NR	0
RCRA-SQG		0.250	0	0	NR	NR	NR	0
RCRA-CESQG		0.250	0	0	NR	NR	NR	0
<i>Federal institutional controls / engineering controls registries</i>								
US ENG CONTROLS		0.500	0	0	0	NR	NR	0
US INST CONTROL		0.500	0	0	0	NR	NR	0
<i>Federal ERNS list</i>								
ERNS		TP	NR	NR	NR	NR	NR	0
<i>State- and tribal - equivalent CERCLIS</i>								
SHWS		N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>State and tribal landfill and/or solid waste disposal site lists</i>								
SWF/LF		0.500	0	0	0	NR	NR	0
<i>State and tribal leaking storage tank lists</i>								
LUST		0.500	0	0	1	NR	NR	1
LUST TRUST		0.500	0	0	0	NR	NR	0
LAST		0.500	0	0	0	NR	NR	0
INDIAN LUST		0.500	0	0	0	NR	NR	0
<i>State and tribal registered storage tank lists</i>								
UST		0.250	0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)						Total Plotted
			< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	
AST		0.250	0	0	NR	NR	NR	0
INDIAN UST		0.250	0	0	NR	NR	NR	0
FEMA UST		0.250	0	0	NR	NR	NR	0
<i>State and tribal institutional control / engineering control registries</i>								
AUL		0.500	0	0	0	NR	NR	0
<i>State and tribal voluntary cleanup sites</i>								
VCP		0.500	0	0	0	NR	NR	0
INDIAN VCP		0.500	0	0	0	NR	NR	0
<u>ADDITIONAL ENVIRONMENTAL RECORDS</u>								
<i>Local Brownfield lists</i>								
US BROWNFIELDS		0.500	0	0	0	NR	NR	0
<i>Local Lists of Landfill / Solid Waste Disposal Sites</i>								
DEBRIS REGION 9		0.500	0	0	0	NR	NR	0
ODI		0.500	0	0	0	NR	NR	0
HIST LF		0.500	0	0	0	NR	NR	0
SWRCY		0.500	0	0	0	NR	NR	0
INDIAN ODI		0.500	0	0	0	NR	NR	0
<i>Local Lists of Hazardous waste / Contaminated Sites</i>								
US CDL		TP	NR	NR	NR	NR	NR	0
CDL		TP	NR	NR	NR	NR	NR	0
US HIST CDL		TP	NR	NR	NR	NR	NR	0
<i>Local Land Records</i>								
LIENS 2		TP	NR	NR	NR	NR	NR	0
LUCIS		0.500	0	0	0	NR	NR	0
<i>Records of Emergency Release Reports</i>								
HMIRS		TP	NR	NR	NR	NR	NR	0
CO ERNS		TP	NR	NR	NR	NR	NR	0
<i>Other Ascertainable Records</i>								
RCRA-NonGen		0.250	0	0	NR	NR	NR	0
DOT OPS		TP	NR	NR	NR	NR	NR	0
DOD		1.000	0	0	0	0	NR	0
FUDS		1.000	0	0	0	0	NR	0
CONSENT		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	0	0	NR	0
UMTRA		0.500	0	0	0	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
TRIS		TP	NR	NR	NR	NR	NR	0
TSCA		TP	NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
FTTS		TP	NR	NR	NR	NR	NR	0
HIST FTTS		TP	NR	NR	NR	NR	NR	0
SSTS		TP	NR	NR	NR	NR	NR	0
ICIS		TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
RADINFO		TP	NR	NR	NR	NR	NR	0
FINDS		TP	NR	NR	NR	NR	NR	0
RAATS		TP	NR	NR	NR	NR	NR	0
METHANE SITE		TP	NR	NR	NR	NR	NR	0
Methane Investigation		TP	NR	NR	NR	NR	NR	0
DRYCLEANERS		0.250	0	0	NR	NR	NR	0
NPDES		TP	NR	NR	NR	NR	NR	0
AIRS		TP	NR	NR	NR	NR	NR	0
UMTRA		0.500	0	0	0	NR	NR	0
ASBESTOS		TP	NR	NR	NR	NR	NR	0
INDIAN RESERV		1.000	0	0	0	0	NR	0
SCRD DRYCLEANERS		0.500	0	0	0	NR	NR	0
COAL ASH DOE		TP	NR	NR	NR	NR	NR	0
PCB TRANSFORMER		TP	NR	NR	NR	NR	NR	0
COAL ASH EPA		0.500	0	0	0	NR	NR	0
FINANCIAL ASSURANCE		TP	NR	NR	NR	NR	NR	0

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants	1.000	0	0	0	0	NR	0
-------------------------	-------	---	---	---	---	----	---

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number
EPA ID Number

1 SHAMROCK #635
WNW 4206 UTE HWY
1/4-1/2 LYONS, CO 80540
0.466 mi.
2459 ft.

LUST S107556027
N/A

Relative: LUST:
Higher Facility Name 2: Not reported
Status: **Implementing CAP**
Actual: Facility Id: 679
5320 ft. Event ID: 3061
Confirmed Release: 1988-09-15 00:00:00
Log Date: 1988-09-15 00:00:00

2 SOUTHDOWN INC, LYONS CEMENT PLANT
East 5134 UTE HIGHWAY
1/2-1 LYONS, CO 80540
0.591 mi.
3123 ft.

CORRACTS 1000410920
RCRA-CESQG COD980957823
PADS
FINDS

Relative: CORRACTS:
Lower

Actual: EPA ID: COD980957823
5238 ft. EPA Region: 08
Area Name: ABOVE GROUND STORAGE TANK
Actual Date: 01/08/1996
Action: CA500 - CMI Workplan Approved
NAICS Code(s): 32731
Cement Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: COD980957823
EPA Region: 08
Area Name: ENTIRE FACILITY
Actual Date: 01/08/1996
Action: CA500 - CMI Workplan Approved
NAICS Code(s): 32731
Cement Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: COD980957823
EPA Region: 08
Area Name: ABOVE GROUND STORAGE TANK
Actual Date: 02/27/1998
Action: CA832OM
NAICS Code(s): 32731
Cement Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: COD980957823
EPA Region: 08
Area Name: ENTIRE FACILITY
Actual Date: 02/27/1998
Action: CA832OM
NAICS Code(s): 32731
Cement Manufacturing

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number
EPA ID Number

SOUTHDOWN INC, LYONS CEMENT PLANT (Continued)

1000410920

Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: COD980957823
EPA Region: 08
Area Name: ABOVE GROUND STORAGE TANK
Actual Date: 03/04/1998
Action: CA999 - Corrective Action Process Terminated
NAICS Code(s): 32731
Cement Manufacturing

Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: COD980957823
EPA Region: 08
Area Name: ENTIRE FACILITY
Actual Date: 03/04/1998
Action: CA999 - Corrective Action Process Terminated
NAICS Code(s): 32731
Cement Manufacturing

Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: COD980957823
EPA Region: 08
Area Name: ENTIRE FACILITY
Actual Date: 03/13/1996
Action: CA155 - RFI Supplemental Information Requested By Agency
NAICS Code(s): 32731
Cement Manufacturing

Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: COD980957823
EPA Region: 08
Area Name: ABOVE GROUND STORAGE TANK
Actual Date: 03/13/1996
Action: CA155 - RFI Supplemental Information Requested By Agency
NAICS Code(s): 32731
Cement Manufacturing

Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: COD980957823
EPA Region: 08
Area Name: ABOVE GROUND STORAGE TANK
Actual Date: 03/27/1997
Action: CA500 - CMI Workplan Approved
NAICS Code(s): 32731
Cement Manufacturing

Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: COD980957823
EPA Region: 08
Area Name: ENTIRE FACILITY
Actual Date: 03/27/1997

Map ID
Direction
Distance
Elevation

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Database(s) EDR ID Number
EPA ID Number

SOUTHDOWN INC, LYONS CEMENT PLANT (Continued)

1000410920

Action: CA500 - CMI Workplan Approved
NAICS Code(s): 32731
Cement Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: COD980957823
EPA Region: 08
Area Name: ENTIRE FACILITY
Actual Date: 04/25/1996
Action: CA305 - CMS Supplemental Information Requested By Agency
NAICS Code(s): 32731
Cement Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: COD980957823
EPA Region: 08
Area Name: ABOVE GROUND STORAGE TANK
Actual Date: 04/25/1996
Action: CA305 - CMS Supplemental Information Requested By Agency
NAICS Code(s): 32731
Cement Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: COD980957823
EPA Region: 08
Area Name: ABOVE GROUND STORAGE TANK
Actual Date: 04/25/1996
Action: CA250 - CMS Imposition
NAICS Code(s): 32731
Cement Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: COD980957823
EPA Region: 08
Area Name: ENTIRE FACILITY
Actual Date: 04/25/1996
Action: CA250 - CMS Imposition
NAICS Code(s): 32731
Cement Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: COD980957823
EPA Region: 08
Area Name: ABOVE GROUND STORAGE TANK
Actual Date: 04/25/1996
Action: CA200 - RFI Approved
NAICS Code(s): 32731
Cement Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: COD980957823

Map ID
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MAP FINDINGS

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Database(s) EDR ID Number
EPA ID Number

SOUTHDOWN INC, LYONS CEMENT PLANT (Continued)

1000410920

EPA Region: 08
Area Name: ENTIRE FACILITY
Actual Date: 04/25/1996
Action: CA200 - RFI Approved
NAICS Code(s): 32731
Cement Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: COD980957823
EPA Region: 08
Area Name: ENTIRE FACILITY
Actual Date: 06/30/1995
Action: CA225NR - Stabilization Measures Evaluation, This facility is, not amenable to stabilization activity at the, present time for reasons other than (1) it appears to be technically, infeasible or inappropriate (NF) or (2) there is a lack of technical, information (IN). Reasons for this conclusion may be the status of, closure at the facility, the degree of risk, timing considerations, the status of corrective action work at the facility, or other, administrative considerations
NAICS Code(s): 32731
Cement Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: COD980957823
EPA Region: 08
Area Name: ENTIRE FACILITY
Actual Date: 06/30/1995
Action: CA750YE - Migration of Contaminated Groundwater under Control, Yes, Migration of Contaminated Groundwater Under Control has been verified
NAICS Code(s): 32731
Cement Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: COD980957823
EPA Region: 08
Area Name: ENTIRE FACILITY
Actual Date: 06/30/1995
Action: CA725YE - Current Human Exposures Under Control, Yes, Current Human Exposures Under Control has been verified
NAICS Code(s): 32731
Cement Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: COD980957823
EPA Region: 08
Area Name: ENTIRE FACILITY
Actual Date: 06/30/1995
Action: CA075LO - CA Prioritization, Facility or area was assigned a low corrective action priority
NAICS Code(s): 32731
Cement Manufacturing
Original schedule date: Not reported

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SOUTHDOWN INC, LYONS CEMENT PLANT (Continued)

1000410920

Schedule end date: Not reported

EPA ID: COD980957823

EPA Region: 08

Area Name: ABOVE GROUND STORAGE TANK

Actual Date: 07/03/1997

Action: CA200 - RFI Approved

NAICS Code(s): 32731

Cement Manufacturing

Original schedule date: Not reported

Schedule end date: Not reported

EPA ID: COD980957823

EPA Region: 08

Area Name: ENTIRE FACILITY

Actual Date: 07/03/1997

Action: CA200 - RFI Approved

NAICS Code(s): 32731

Cement Manufacturing

Original schedule date: Not reported

Schedule end date: Not reported

EPA ID: COD980957823

EPA Region: 08

Area Name: ENTIRE FACILITY

Actual Date: 07/03/1997

Action: CA750YE - Migration of Contaminated Groundwater under Control, Yes,
Migration of Contaminated Groundwater Under Control has been verified

NAICS Code(s): 32731

Cement Manufacturing

Original schedule date: Not reported

Schedule end date: Not reported

EPA ID: COD980957823

EPA Region: 08

Area Name: ENTIRE FACILITY

Actual Date: 09/26/1990

Action: CA100 - RFI Imposition

NAICS Code(s): 32731

Cement Manufacturing

Original schedule date: Not reported

Schedule end date: Not reported

EPA ID: COD980957823

EPA Region: 08

Area Name: ENTIRE FACILITY

Actual Date: 09/26/1990

Action: CA006SM

NAICS Code(s): 32731

Cement Manufacturing

Original schedule date: Not reported

Schedule end date: Not reported

EPA ID: COD980957823

EPA Region: 08

Area Name: ABOVE GROUND STORAGE TANK

Actual Date: 09/26/1990

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SOUTHDOWN INC, LYONS CEMENT PLANT (Continued)

1000410920

Action: CA006SM
NAICS Code(s): 32731
Cement Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: COD980957823
EPA Region: 08
Area Name: ABOVE GROUND STORAGE TANK
Actual Date: 09/26/1990
Action: CA100 - RFI Imposition
NAICS Code(s): 32731
Cement Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: COD980957823
EPA Region: 08
Area Name: ENTIRE FACILITY
Actual Date: 10/19/1994
Action: CA200 - RFI Approved
NAICS Code(s): 32731
Cement Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: COD980957823
EPA Region: 08
Area Name: ABOVE GROUND STORAGE TANK
Actual Date: 10/19/1994
Action: CA400 - Date For Remedy Selection (CM Imposed)
NAICS Code(s): 32731
Cement Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: COD980957823
EPA Region: 08
Area Name: ABOVE GROUND STORAGE TANK
Actual Date: 10/19/1994
Action: CA200 - RFI Approved
NAICS Code(s): 32731
Cement Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: COD980957823
EPA Region: 08
Area Name: ENTIRE FACILITY
Actual Date: 10/19/1994
Action: CA400 - Date For Remedy Selection (CM Imposed)
NAICS Code(s): 32731
Cement Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

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Database(s) EDR ID Number
EPA ID Number

SOUTHDOWN INC, LYONS CEMENT PLANT (Continued)

1000410920

RCRA-CESQG:

Date form received by agency: 02/26/2010
Facility name: CEMEX CONSTRUCTION MATERIALS SOUTH LLP
Facility address: 5134 UTE HWY
LYONS, CO 80540
EPA ID: COD980957823
Mailing address: P O BOX 529
LYONS, CO 80540
Contact: MONICA SOWDERS
Contact address: P O BOX 529
LYONS, CO 80540
Contact country: US
Contact telephone: (303) 823-2115
Contact email: Not reported
EPA Region: 08
Land type: Private
Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name: CEMEX CONSTRUCTION MATERIALS SOUTH LLP
Owner/operator address: UTE HWY
LYONS, CO 80540

Owner/operator country: US
Owner/operator telephone: (303) 823-2115

Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 02/26/2010
Owner/Op end date: Not reported

Owner/operator name: CEMEX INC
Owner/operator address: UTE HWY
LYONS, CO 80540

Owner/operator country: US
Owner/operator telephone: (303) 823-2115

Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 08/31/2004
Owner/Op end date: Not reported

Owner/operator name: CEMEX CONSTRUCTION MATERIALS SOUTH LLP
Owner/operator address: UTE HWY
LYONS, CO 80540

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Database(s) EDR ID Number
EPA ID Number

SOUTHDOWN INC, LYONS CEMENT PLANT (Continued)

1000410920

Owner/operator country: US
Owner/operator telephone: (303) 823-2115
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 02/26/2010
Owner/Op end date: Not reported

Owner/operator name: CEMEX INC
Owner/operator address: P O BOX 529
LYONS, CO 80540
Owner/operator country: US
Owner/operator telephone: (999) 999-9999
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/0001
Owner/Op end date: Not reported

Handler Activities Summary:

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

Universal Waste Summary:

Waste type: AEROSOL CANS
Accumulated waste on-site: No
Generated waste on-site: Yes

Waste type: ELECTRONIC DEVICES AND OR COMPONENTS
Accumulated waste on-site: No
Generated waste on-site: Yes

Waste type: MERCURY-CONTAINING DEVICES
Accumulated waste on-site: No
Generated waste on-site: Yes

Waste type: Batteries
Accumulated waste on-site: Yes
Generated waste on-site: Not reported

Waste type: Lamps
Accumulated waste on-site: Yes
Generated waste on-site: Not reported

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SOUTHDOWN INC, LYONS CEMENT PLANT (Continued)

1000410920

Historical Generators:

Date form received by agency: 10/29/2008

Facility name: CEMEX CONSTRUCTION MATERIALS SOUTH LLP

Site name: CEMEX INC

Classification: Small Quantity Generator

Date form received by agency: 08/31/2004

Facility name: CEMEX CONSTRUCTION MATERIALS SOUTH LLP

Site name: CEMEX INC

Classification: Small Quantity Generator

Date form received by agency: 03/10/1998

Facility name: CEMEX CONSTRUCTION MATERIALS SOUTH LLP

Site name: SOUTHDOWN INC., LYONS CEMENT PLANT

Classification: Large Quantity Generator

Date form received by agency: 02/21/1996

Facility name: CEMEX CONSTRUCTION MATERIALS SOUTH LLP

Site name: CEMEX INC

Classification: Small Quantity Generator

Hazardous Waste Summary:

Waste code: D001

Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Corrective Action Summary:

Event date: 09/26/1990
Event: CA006SM

Event date: 09/26/1990
Event: RFI Imposition

Event date: 10/19/1994
Event: RFI Approved

Event date: 10/19/1994
Event: Date For Remedy Selection (CM Imposed)

Event date: 06/30/1995
Event: CA Prioritization, Facility or area was assigned a low corrective action priority.

Event date: 06/30/1995
Event: Stabilization Measures Evaluation, This facility is not amenable to stabilization activity at the present time for reasons other than 1- it appears to be technically infeasible or inappropriate (NF) or 2- there is a lack of technical information (IN). Reasons for this conclusion may be the status of closure at the facility, the degree of risk, timing considerations, the status of corrective action work at the facility, or other administrative considerations.

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Database(s) EDR ID Number
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SOUTHDOWN INC, LYONS CEMENT PLANT (Continued)

1000410920

Event date: 06/30/1995
Event: Migration of Contaminated Groundwater under Control, Yes, Migration of Contaminated Groundwater Under Control has been verified. Based on a review of information contained in the EI determination, it has been determined that migration of contaminated groundwater is under control at the facility. Specifically, this determination indicates that the migration of contaminated groundwater is under control, and that monitoring will be conducted to confirm that contaminated groundwater remains within the existing area of contaminated groundwater. This determination will be re-evaluated when the Agency becomes aware of significant changes at the facility.

Event date: 06/30/1995
Event: Current Human Exposures under Control, Yes, Current Human Exposures Under Control has been verified. Based on a review of information contained in the EI determination, current human exposures are expected to be under control at the facility under current and reasonably expected conditions. This determination will be re-evaluated when the Agency/State becomes aware of significant changes at the facility.

Event date: 01/08/1996
Event: CMI Workplan Approved

Event date: 03/13/1996
Event: RFI Supplemental Information Requested By Agency

Event date: 04/25/1996
Event: CMS Supplemental Information Requested By Agency

Event date: 04/25/1996
Event: CMS Imposition

Event date: 04/25/1996
Event: RFI Approved

Event date: 03/27/1997
Event: CMI Workplan Approved

Event date: 07/03/1997
Event: Migration of Contaminated Groundwater under Control, Yes, Migration of Contaminated Groundwater Under Control has been verified. Based on a review of information contained in the EI determination, it has been determined that migration of contaminated groundwater is under control at the facility. Specifically, this determination indicates that the migration of contaminated groundwater is under control, and that monitoring will be conducted to confirm that contaminated groundwater remains within the existing area of contaminated groundwater. This determination will be re-evaluated when the Agency becomes aware of significant changes at the facility.

Event date: 07/03/1997
Event: RFI Approved

Event date: 02/27/1998
Event: CA832OM

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SOUTHDOWN INC, LYONS CEMENT PLANT (Continued)

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Event date: 03/04/1998
Event: Corrective Action Process Terminated

Facility Has Received Notices of Violations:

Regulation violated: SR - 262.34.a.4
Area of violation: Generators - Pre-transport
Date violation determined: 11/29/2005
Date achieved compliance: 05/02/2006
Violation lead agency: State
Enforcement action: V3 Conversion Compliance Advisory
Enforcement action date: 11/29/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 0
Final penalty amount: 0
Paid penalty amount: 0

Regulation violated: SR - 262.11
Area of violation: Generators - General
Date violation determined: 11/29/2005
Date achieved compliance: 05/02/2006
Violation lead agency: State
Enforcement action: V3 Conversion Compliance Advisory
Enforcement action date: 11/29/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 0
Final penalty amount: 0
Paid penalty amount: 0

Regulation violated: SR - 262.34.c&g
Area of violation: Generators - Pre-transport
Date violation determined: 05/18/2005
Date achieved compliance: 06/18/2005
Violation lead agency: State
Enforcement action: V3 Conversion Compliance Advisory
Enforcement action date: 05/18/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 0
Final penalty amount: 0
Paid penalty amount: 0

Regulation violated: SR - 279
Area of violation: Used Oil - Generators
Date violation determined: 05/18/2005
Date achieved compliance: 06/18/2005
Violation lead agency: State
Enforcement action: V3 Conversion Compliance Advisory
Enforcement action date: 05/18/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 0

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SOUTHDOWN INC, LYONS CEMENT PLANT (Continued)

1000410920

Final penalty amount: 0
Paid penalty amount: 0

Regulation violated: SR - 262.34.d.5
Area of violation: Generators - Pre-transport
Date violation determined: 05/18/2005
Date achieved compliance: 06/18/2005
Violation lead agency: State
Enforcement action: V3 Conversion Compliance Advisory
Enforcement action date: 05/18/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 0
Final penalty amount: 0
Paid penalty amount: 0

Regulation violated: SR - 268
Area of violation: Generators - General
Date violation determined: 05/18/2005
Date achieved compliance: 06/18/2005
Violation lead agency: State
Enforcement action: V3 Conversion Compliance Advisory
Enforcement action date: 05/18/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 0
Final penalty amount: 0
Paid penalty amount: 0

Regulation violated: SR - 262.11
Area of violation: Generators - General
Date violation determined: 05/18/2005
Date achieved compliance: 06/18/2005
Violation lead agency: State
Enforcement action: V3 Conversion Compliance Advisory
Enforcement action date: 05/18/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 0
Final penalty amount: 0
Paid penalty amount: 0

Evaluation Action Summary:

Evaluation date: 07/28/2010

Evaluation: COMPLIANCE ASSISTANCE VISIT

Area of violation: Not reported

Date achieved compliance: Not reported

Evaluation lead agency: State

Evaluation date: 08/07/2009

Evaluation: FACILITY SELF DISCLOSURE

Area of violation: Not reported

Date achieved compliance: Not reported

Evaluation lead agency: State

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SOUTHDOWN INC, LYONS CEMENT PLANT (Continued)

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Evaluation date:	09/22/2008
Evaluation:	FACILITY SELF DISCLOSURE
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	State
Evaluation date:	07/10/2007
Evaluation:	NON-FINANCIAL RECORD REVIEW
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	State
Evaluation date:	11/29/2005
Evaluation:	FOCUSED COMPLIANCE INSPECTION
Area of violation:	Generators - Pre-transport
Date achieved compliance:	05/02/2006
Evaluation lead agency:	State
Evaluation date:	11/29/2005
Evaluation:	FOCUSED COMPLIANCE INSPECTION
Area of violation:	Generators - General
Date achieved compliance:	05/02/2006
Evaluation lead agency:	State
Evaluation date:	09/26/2005
Evaluation:	NON-FINANCIAL RECORD REVIEW
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	State
Evaluation date:	05/18/2005
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Generators - General
Date achieved compliance:	06/18/2005
Evaluation lead agency:	State
Evaluation date:	05/18/2005
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Used Oil - Generators
Date achieved compliance:	06/18/2005
Evaluation lead agency:	State
Evaluation date:	05/18/2005
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Generators - Pre-transport
Date achieved compliance:	06/18/2005
Evaluation lead agency:	State
Evaluation date:	03/03/1998
Evaluation:	FOCUSED COMPLIANCE INSPECTION
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	State
Evaluation date:	07/03/1997
Evaluation:	FOCUSED COMPLIANCE INSPECTION
Area of violation:	Not reported

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SOUTHDOWN INC, LYONS CEMENT PLANT (Continued)

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Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/27/1997
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 04/24/1996
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/11/1996
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 01/02/1996
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 10/17/1994
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 11/04/1986
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

PADS:

EPAID: COD980957823
Facility name: S W PORTLAND CEMENT LYONS PLT
Facility Address: ON CO STATE HWY 66 2 MI E OF
LYONS, CO 80540
Facility country: US
Generator: Yes
Storer: No
Transporter: No
Disposer: No
Research facility: No
Smelter: No
Facility owner name: SOUTHWESTERN PORTLAND CEMENT
Contact title: Not reported
Contact name: WILEY RANDY
Contact tel: (303)823-6685
Contact extension: Not reported
Mailing address: PO BOX 529
LYONS, CO 80540

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Mailing country: US
Cert. title: Not reported
Cert. name: Not reported
Cert. date: 4/9/1990
Date received: 6/7/1990

FINDS:

Registry ID: 110000467450

Environmental Interest/Information System

AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

The NEI (National Emissions Inventory) database contains information on stationary and mobile sources that emit criteria air pollutants and their precursors, as well as hazardous air pollutants (HAPs).

Colorado's Department of Public Health & Environment (CDPHE)'s web-based database that allows environmental program managers to edit their facility locations and allows users to view this information read-only.

US EPA TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.

US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (CIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.

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

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to

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SOUTHDOWN INC, LYONS CEMENT PLANT (Continued)

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

PCS (Permit Compliance System) is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Count: 12 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
LONGMONT	S101840473	GREAT WESTERN SUGAR CORP DUMP	E 3RD AVE		SWF/LF
LONGMONT	2007436335	2100 E HWY 119	2100 E HWY 119		HMIRS
LONGMONT	S101840461	NISHIDA FARMS	W HWY 66		SWF/LF
LONGMONT	S109089587	LONGMONT SWDF, CITY OF	1998 WCR		SWF/LF
LYONS	A100288737	RIM ROCK STONE CO	4435 HWY 66	80540	AST
LYONS	U003119333	LOUKONEN BROTHERS	12990 FOOTHILLS HWY	80540	UST
LYONS	S105143497	LYONS U-PUMP-IT	4065 E HWY 66	80540	LUST
LYONS	U004005958	U-PUMP-IT #811	4065 E HWY 66	80540	UST
LYONS	S110275238	U-PUMP-IT #811	4065 E HWY 66	80540	LUST TRUST
LYONS	U004147540	THE STORE	USHY 36 PINewood SPRINGS	80540	UST
LYONS	S100795526	LYONS CEMENT PLANT	5300 UTE HWY	80540	SWF/LF, HIST LF, NPDES
LYONS	U003195449	DIAMOND SHAMROCK 635	4206 UTE HWY	80540	LUST TRUST, UST

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 03/31/2011	Source: EPA
Date Data Arrived at EDR: 04/13/2011	Telephone: N/A
Date Made Active in Reports: 06/14/2011	Last EDR Contact: 07/12/2011
Number of Days to Update: 62	Next Scheduled EDR Contact: 10/24/2011
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1 Telephone 617-918-1143	EPA Region 6 Telephone: 214-655-6659
EPA Region 3 Telephone 215-814-5418	EPA Region 7 Telephone: 913-551-7247
EPA Region 4 Telephone 404-562-8033	EPA Region 8 Telephone: 303-312-6774
EPA Region 5 Telephone 312-886-6686	EPA Region 9 Telephone: 415-947-4246
EPA Region 10 Telephone 206-553-8665	

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 03/31/2011	Source: EPA
Date Data Arrived at EDR: 04/13/2011	Telephone: N/A
Date Made Active in Reports: 06/14/2011	Last EDR Contact: 07/12/2011
Number of Days to Update: 62	Next Scheduled EDR Contact: 10/24/2011
	Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/15/2011
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 03/31/2011	Source: EPA
Date Data Arrived at EDR: 04/13/2011	Telephone: N/A
Date Made Active in Reports: 06/14/2011	Last EDR Contact: 07/12/2011
Number of Days to Update: 62	Next Scheduled EDR Contact: 10/24/2011
	Data Release Frequency: Quarterly

Federal CERCLIS list

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 02/25/2011	Source: EPA
Date Data Arrived at EDR: 03/01/2011	Telephone: 703-412-9810
Date Made Active in Reports: 05/02/2011	Last EDR Contact: 09/01/2011
Number of Days to Update: 62	Next Scheduled EDR Contact: 12/12/2011
	Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA's Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 12/10/2010	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/11/2011	Telephone: 703-603-8704
Date Made Active in Reports: 02/16/2011	Last EDR Contact: 07/15/2011
Number of Days to Update: 36	Next Scheduled EDR Contact: 10/24/2011
	Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 02/25/2011	Source: EPA
Date Data Arrived at EDR: 03/01/2011	Telephone: 703-412-9810
Date Made Active in Reports: 05/02/2011	Last EDR Contact: 09/01/2011
Number of Days to Update: 62	Next Scheduled EDR Contact: 12/12/2011
	Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/09/2011
Date Data Arrived at EDR: 03/15/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 91

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/15/2011
Date Data Arrived at EDR: 07/07/2011
Date Made Active in Reports: 08/08/2011
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: 303-312-6149
Last EDR Contact: 07/07/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/15/2011
Date Data Arrived at EDR: 07/07/2011
Date Made Active in Reports: 08/08/2011
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: 303-312-6149
Last EDR Contact: 07/07/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 06/15/2011
Date Data Arrived at EDR: 07/07/2011
Date Made Active in Reports: 08/08/2011
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: 303-312-6149
Last EDR Contact: 07/07/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

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

Date of Government Version: 06/15/2011
Date Data Arrived at EDR: 07/07/2011
Date Made Active in Reports: 08/08/2011
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: 303-312-6149
Last EDR Contact: 07/07/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 03/16/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/25/2011	Telephone: 703-603-0695
Date Made Active in Reports: 06/14/2011	Last EDR Contact: 08/08/2011
Number of Days to Update: 81	Next Scheduled EDR Contact: 09/26/2011
	Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 03/16/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/25/2011	Telephone: 703-603-0695
Date Made Active in Reports: 06/14/2011	Last EDR Contact: 08/08/2011
Number of Days to Update: 81	Next Scheduled EDR Contact: 09/26/2011
	Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 04/05/2011	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 04/05/2011	Telephone: 202-267-2180
Date Made Active in Reports: 06/14/2011	Last EDR Contact: 07/05/2011
Number of Days to Update: 70	Next Scheduled EDR Contact: 10/17/2011
	Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

SHWS: This state does not maintain a SHWS list. See the Federal CERCLIS list and Federal NPL list.

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: N/A	Source: Department of Public Health & Environment
Date Data Arrived at EDR: N/A	Telephone: 303-692-3300
Date Made Active in Reports: N/A	Last EDR Contact: 08/22/2011
Number of Days to Update: N/A	Next Scheduled EDR Contact: 12/05/2011
	Data Release Frequency: N/A

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: Solid Waste Sites & Facilities

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/07/2010
Date Data Arrived at EDR: 05/21/2010
Date Made Active in Reports: 05/25/2010
Number of Days to Update: 4

Source: Department of Public Health & Environment
Telephone: 303-692-3300
Last EDR Contact: 08/17/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Annually

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank List

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 06/14/2011
Date Data Arrived at EDR: 06/15/2011
Date Made Active in Reports: 07/19/2011
Number of Days to Update: 34

Source: Department of Labor and Employment, Oil Inspection Section
Telephone: 303-318-8521
Last EDR Contact: 06/13/2011
Next Scheduled EDR Contact: 09/26/2011
Data Release Frequency: Quarterly

TRUST: Lust Trust Sites

Reimbursement application package. The 1989 Colorado General Assembly established Colorado's Petroleum Storage Tank Fund. The Fund reimburses eligible applicants for allowable costs incurred in cleaning up petroleum contamination from underground and aboveground petroleum storage tanks, as well as for third-party liability expenses. Remediation of contamination caused by railroad or aircraft fuel is not eligible for reimbursement. The Fund satisfies federal Environmental Protection Agency financial assurance requirements. Monies in the Fund come from various sources, predominantly the state environmental surcharge imposed on all petroleum products except railroad or aircraft fuel.

Date of Government Version: 07/06/2011
Date Data Arrived at EDR: 07/07/2011
Date Made Active in Reports: 08/03/2011
Number of Days to Update: 27

Source: Department of Labor and Employment, Oil Inspection Section
Telephone: 303-318-8521
Last EDR Contact: 07/05/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Varies

LAST: Leaking Aboveground Storage Tank Listing

A listing of leaking aboveground storage tank sites.

Date of Government Version: 08/01/2011
Date Data Arrived at EDR: 08/05/2011
Date Made Active in Reports: 08/23/2011
Number of Days to Update: 18

Source: Department of Labor & Employment
Telephone: 303-318-8525
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 10/24/2011
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 01/31/2011
Date Data Arrived at EDR: 02/01/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 48

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: Quarterly

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 03/03/2011
Date Data Arrived at EDR: 03/18/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 45

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 05/17/2011 Source: EPA Region 10
Date Data Arrived at EDR: 05/19/2011 Telephone: 206-553-2857
Date Made Active in Reports: 06/14/2011 Last EDR Contact: 08/01/2011
Number of Days to Update: 26 Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: Quarterly

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 03/07/2011 Source: EPA Region 1
Date Data Arrived at EDR: 05/20/2011 Telephone: 617-918-1313
Date Made Active in Reports: 06/14/2011 Last EDR Contact: 08/02/2011
Number of Days to Update: 25 Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 05/10/2011 Source: EPA Region 6
Date Data Arrived at EDR: 05/11/2011 Telephone: 214-665-6597
Date Made Active in Reports: 06/14/2011 Last EDR Contact: 08/01/2011
Number of Days to Update: 34 Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 11/04/2009 Source: EPA Region 7
Date Data Arrived at EDR: 05/04/2010 Telephone: 913-551-7003
Date Made Active in Reports: 07/07/2010 Last EDR Contact: 08/02/2011
Number of Days to Update: 64 Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 05/16/2011 Source: EPA Region 8
Date Data Arrived at EDR: 05/17/2011 Telephone: 303-312-6271
Date Made Active in Reports: 06/14/2011 Last EDR Contact: 08/01/2011
Number of Days to Update: 28 Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: Quarterly

State and tribal registered storage tank lists

UST: Underground Storage Tank Database

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 06/14/2011
Date Data Arrived at EDR: 06/15/2011
Date Made Active in Reports: 07/18/2011
Number of Days to Update: 33
Source: Department of Labor and Employment, Oil Inspection Section
Telephone: 303-318-8521
Last EDR Contact: 06/13/2011
Next Scheduled EDR Contact: 09/26/2011
Data Release Frequency: Quarterly

AST: Aboveground Tank List

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/14/2011
Date Data Arrived at EDR: 06/15/2011
Date Made Active in Reports: 07/18/2011
Number of Days to Update: 33

Source: Department of Labor and Employment, Oil Inspection Section
Telephone: 303-318-8521
Last EDR Contact: 06/13/2011
Next Scheduled EDR Contact: 09/26/2011
Data Release Frequency: Semi-Annually

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 04/01/2011
Date Data Arrived at EDR: 06/01/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 13

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 08/02/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 05/17/2011
Date Data Arrived at EDR: 05/19/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 26

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: Quarterly

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 03/07/2011
Date Data Arrived at EDR: 05/04/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 41

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 08/02/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 05/16/2011
Date Data Arrived at EDR: 05/17/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 28

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: Quarterly

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 03/03/2011
Date Data Arrived at EDR: 03/18/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 45

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: Semi-Annually

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/18/2011 Source: EPA Region 9
Date Data Arrived at EDR: 05/26/2011 Telephone: 415-972-3368
Date Made Active in Reports: 06/14/2011 Last EDR Contact: 08/01/2011
Number of Days to Update: 19 Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: Quarterly

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 05/10/2011 Source: EPA Region 6
Date Data Arrived at EDR: 05/11/2011 Telephone: 214-665-7591
Date Made Active in Reports: 06/14/2011 Last EDR Contact: 08/01/2011
Number of Days to Update: 34 Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 01/01/2011 Source: EPA Region 5
Date Data Arrived at EDR: 02/23/2011 Telephone: 312-886-6136
Date Made Active in Reports: 05/02/2011 Last EDR Contact: 08/01/2011
Number of Days to Update: 68 Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: Varies

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010 Source: FEMA
Date Data Arrived at EDR: 02/16/2010 Telephone: 202-646-5797
Date Made Active in Reports: 04/12/2010 Last EDR Contact: 07/18/2011
Number of Days to Update: 55 Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

AUL: Environmental Real Covenants List

Activity and use limitations include both engineering controls and institutional controls. 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 real covenant. When a contaminated site is not cleaned up completely, land use restrictions may be used to ensure that the selected cleanup remedy is adequately protective of human health and the environment.

Date of Government Version: 07/15/2011 Source: Department of Public Health & Environment
Date Data Arrived at EDR: 07/19/2011 Telephone: 303-692-3331
Date Made Active in Reports: 08/03/2011 Last EDR Contact: 08/31/2011
Number of Days to Update: 15 Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008 Source: EPA, Region 7
Date Data Arrived at EDR: 04/22/2008 Telephone: 913-551-7365
Date Made Active in Reports: 05/19/2008 Last EDR Contact: 04/20/2009
Number of Days to Update: 27 Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

VCP: Voluntary Cleanup & Redevelopment Act Application Tracking Report

The Voluntary Cleanup and Redevelopment Act is intended to permit and encourage voluntary cleanups by providing a method to determine clean-up responsibilities in planning the reuse of property. The VCRA was intended for sites which were not covered by existing regulatory programs.

Date of Government Version: 03/11/2011
Date Data Arrived at EDR: 04/22/2011
Date Made Active in Reports: 05/19/2011
Number of Days to Update: 27

Source: Department of Public Health and Environmental
Telephone: 303-692-3331
Last EDR Contact: 07/22/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Semi-Annually

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 02/25/2011
Date Data Arrived at EDR: 04/05/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 70

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 07/05/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 03/29/2011
Date Data Arrived at EDR: 03/29/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 77

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 06/27/2011
Next Scheduled EDR Contact: 10/10/2011
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 06/27/2011
Next Scheduled EDR Contact: 10/10/2011
Data Release Frequency: No Update Planned

SWRCY: Registered Recyclers Listing

A listing of registered recycler locations in the state of Colorado.

Date of Government Version: 05/13/2011
Date Data Arrived at EDR: 05/17/2011
Date Made Active in Reports: 06/13/2011
Number of Days to Update: 27

Source: Department of Public Health & Environment
Telephone: 303-692-3337
Last EDR Contact: 08/31/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Varies

HISTORICAL LANDFILL: Historical Landfill List Abandoned/Inactive Landfills.

Date of Government Version: 01/31/1993
Date Data Arrived at EDR: 04/24/1994
Date Made Active in Reports: 05/30/1994
Number of Days to Update: 36

Source: Department of Public Health & Environment
Telephone: 303-692-3300
Last EDR Contact: 09/05/1996
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 02/02/2011
Date Data Arrived at EDR: 03/17/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 46

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 06/07/2011
Next Scheduled EDR Contact: 09/19/2011
Data Release Frequency: Quarterly

CDL: Meth Lab Locations

Meth lab locations that were reported to the Department of Public Health & Environment.

Date of Government Version: 07/08/2011
Date Data Arrived at EDR: 07/11/2011
Date Made Active in Reports: 08/03/2011
Number of Days to Update: 23

Source: Department of Public Health and Environment
Telephone: 303-692-3023
Last EDR Contact: 07/08/2011
Next Scheduled EDR Contact: 10/24/2011
Data Release Frequency: Quarterly

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/01/2007
Date Data Arrived at EDR: 11/19/2008
Date Made Active in Reports: 03/30/2009
Number of Days to Update: 131

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/01/2011
Date Data Arrived at EDR: 02/04/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 08/12/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: Varies

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/09/2005
Date Data Arrived at EDR: 12/11/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 31

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 07/11/2011
Next Scheduled EDR Contact: 09/05/2011
Data Release Frequency: Varies

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/31/2010
Date Data Arrived at EDR: 01/05/2011
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 51

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 07/05/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Annually

CO ERNS: Spills Database State reported spills.

Date of Government Version: 07/08/2011
Date Data Arrived at EDR: 07/11/2011
Date Made Active in Reports: 08/03/2011
Number of Days to Update: 23

Source: Department of Public Health and Environmental
Telephone: 303-692-2000
Last EDR Contact: 07/08/2011
Next Scheduled EDR Contact: 10/24/2011
Data Release Frequency: Quarterly

Other Ascertainable Records

RCRA-NonGen: RCRA - Non Generators

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

Date of Government Version: 06/15/2011
Date Data Arrived at EDR: 07/07/2011
Date Made Active in Reports: 08/08/2011
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: 303-312-6149
Last EDR Contact: 07/07/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/12/2011
Date Data Arrived at EDR: 02/11/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 80

Source: Department of Transportation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 08/09/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 07/22/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 08/12/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 112

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 06/14/2011
Next Scheduled EDR Contact: 09/26/2011
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2010
Date Data Arrived at EDR: 04/05/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 70

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 02/25/2011
Date Data Arrived at EDR: 03/16/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 5

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 06/15/2011
Next Scheduled EDR Contact: 09/26/2011
Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/21/2010
Date Made Active in Reports: 01/28/2011
Number of Days to Update: 99

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 08/31/2011
Next Scheduled EDR Contact: 12/12/2011
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/08/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 06/08/2011
Next Scheduled EDR Contact: 09/19/2011
Data Release Frequency: Semi-Annually

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/17/2010
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 94

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 09/01/2011
Next Scheduled EDR Contact: 12/12/2011
Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2006
Date Data Arrived at EDR: 09/29/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 64

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 06/30/2011
Next Scheduled EDR Contact: 10/10/2011
Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/31/2011
Next Scheduled EDR Contact: 12/12/2011
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/31/2011
Next Scheduled EDR Contact: 12/12/2011
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 08/18/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 01/07/2011
Date Data Arrived at EDR: 01/21/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 59

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 06/27/2011
Next Scheduled EDR Contact: 10/10/2011
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 11/01/2010
Date Data Arrived at EDR: 11/10/2010
Date Made Active in Reports: 02/16/2011
Number of Days to Update: 98

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 07/22/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 03/18/2010
Date Data Arrived at EDR: 04/06/2010
Date Made Active in Reports: 05/27/2010
Number of Days to Update: 51

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 06/13/2011
Next Scheduled EDR Contact: 09/26/2011
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 01/11/2011 Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/13/2011 Telephone: 202-343-9775
Date Made Active in Reports: 02/16/2011 Last EDR Contact: 07/12/2011
Number of Days to Update: 34 Next Scheduled EDR Contact: 10/24/2011
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 04/14/2010 Source: EPA
Date Data Arrived at EDR: 04/16/2010 Telephone: (303) 312-6312
Date Made Active in Reports: 05/27/2010 Last EDR Contact: 06/14/2011
Number of Days to Update: 41 Next Scheduled EDR Contact: 09/26/2011
Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995 Source: EPA
Date Data Arrived at EDR: 07/03/1995 Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995 Last EDR Contact: 06/02/2008
Number of Days to Update: 35 Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2009 Source: EPA/NTIS
Date Data Arrived at EDR: 03/01/2011 Telephone: 800-424-9346
Date Made Active in Reports: 05/02/2011 Last EDR Contact: 09/01/2011
Number of Days to Update: 62 Next Scheduled EDR Contact: 12/12/2011
Data Release Frequency: Biennially

METHANE SITE: Methane Site Investigations - Jefferson County 1980

The objectives of the study are to define as closely as possible the boundaries of methane producing solid waste landfills.

Date of Government Version: 12/31/1980 Source: Jefferson County Health Department
Date Data Arrived at EDR: 02/13/1995 Telephone: 303-239-7175
Date Made Active in Reports: 04/04/1995 Last EDR Contact: 01/27/1995
Number of Days to Update: 50 Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

METHANE INVESTIGATION: Methane Gas & Swamp Findings

The primary objective of this study was to assess methane gas related hazards at selected landfill sites in Colorado. These sites were selected by the Colorado Department of Health following evaluation of responses received from County and Municipal agencies about completed and existing landfills within their jurisdiction.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/15/1979
Date Data Arrived at EDR: 02/13/1995
Date Made Active in Reports: 04/04/1995
Number of Days to Update: 50

Source: Department of Health
Telephone: 303-640-3335
Last EDR Contact: 01/27/1995
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DRYCLEANERS: Drycleaner Facilities

A listing of drycleaning facilities.

Date of Government Version: 06/15/2011
Date Data Arrived at EDR: 06/16/2011
Date Made Active in Reports: 07/19/2011
Number of Days to Update: 33

Source: Department of Public Health & Environment
Telephone: 303-692-3213
Last EDR Contact: 06/13/2011
Next Scheduled EDR Contact: 09/26/2011
Data Release Frequency: Varies

NPDES: Permitted Facility Listing

A listing of permitted facilities from the Water Quality Control Division.

Date of Government Version: 08/08/2011
Date Data Arrived at EDR: 08/08/2011
Date Made Active in Reports: 08/22/2011
Number of Days to Update: 14

Source: Department of Public Health & Environment
Telephone: 303-692-3611
Last EDR Contact: 05/09/2011
Next Scheduled EDR Contact: 08/22/2011
Data Release Frequency: Varies

AIRS: Permitted Facility & Emissions Listing

A listing of Air Pollution Control Division permits and emissions data.

Date of Government Version: 06/15/2011
Date Data Arrived at EDR: 06/16/2011
Date Made Active in Reports: 07/19/2011
Number of Days to Update: 33

Source: Department of Public Health & Environment
Telephone: 303-692-3213
Last EDR Contact: 06/13/2011
Next Scheduled EDR Contact: 09/26/2011
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

There were nine uranium mill tailings sites in Colorado designated for cleanup under the federal Uranium Mill Tailings Radiation Control Act. These nine sites, known 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.

Date of Government Version: 11/23/2004
Date Data Arrived at EDR: 03/21/2007
Date Made Active in Reports: 05/02/2007
Number of Days to Update: 42

Source: Department of Public Health & Environment
Telephone: 970-248-7164
Last EDR Contact: 08/31/2011
Next Scheduled EDR Contact: 12/12/2011
Data Release Frequency: Varies

ASBESTOS: Asbestos Abatement & Demolition Projects

Asbestos abatement and demolition projects by the contractor.

Date of Government Version: 05/18/2011
Date Data Arrived at EDR: 05/19/2011
Date Made Active in Reports: 06/13/2011
Number of Days to Update: 25

Source: Department of Public Health & Environment
Telephone: 303-692-3100
Last EDR Contact: 08/18/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Semi-Annually

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 07/22/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Semi-Annually

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 07/15/2011
Next Scheduled EDR Contact: 11/07/2011
Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 07/22/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: N/A

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 01/01/2008
Date Data Arrived at EDR: 02/18/2009
Date Made Active in Reports: 05/29/2009
Number of Days to Update: 100

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 08/05/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 08/17/2010
Date Data Arrived at EDR: 01/03/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 77

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 06/14/2011
Next Scheduled EDR Contact: 09/26/2011
Data Release Frequency: Varies

COAL ASH DOE: Steam-Electric Plan Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Varies

FINANCIAL ASSURANCE 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/11/2011
Date Data Arrived at EDR: 07/11/2011
Date Made Active in Reports: 08/03/2011
Number of Days to Update: 23

Source: Department of Public Health & Environment
Telephone: 303-392-3350
Last EDR Contact: 07/08/2011
Next Scheduled EDR Contact: 10/24/2011
Data Release Frequency: Varies

FINANCIAL ASSURANCE 1: Financial Assurance Information Listing

A listing of financial assurance information for hazardous waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 01/10/2011
Date Data Arrived at EDR: 01/11/2011
Date Made Active in Reports: 02/17/2011
Number of Days to Update: 37

Source: Department of Public Health & Environment
Telephone: 303-692-3350
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 10/24/2011
Data Release Frequency: Varies

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

COUNTY RECORDS

ADAMS COUNTY:

Summary Report on Methane Gas Hazards and Surveys Conducted on Domestic and Demolition Landfills in Adams County
As of May 8, 1978, all known landfills or dumping sites in the Adams County area have been surveyed.

Date of Government Version: 05/08/1978
Date Data Arrived at EDR: 02/16/1995
Date Made Active in Reports: 04/04/1995
Number of Days to Update: 47

Source: Tri-County Health Department
Telephone: 303-761-1340
Last EDR Contact: 01/27/1995
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

ARAPAHOE COUNTY:

A Survey of Landfills in Arapahoe County

A survey of Arapahoe County was conducted from August through November, 1977, of all open and closed landfills and dumpsites in the county. Each of the sites found was classified as domestic or demolition.

Date of Government Version: 12/31/1978
Date Data Arrived at EDR: 02/16/1995
Date Made Active in Reports: 04/04/1995
Number of Days to Update: 47

Source: Tri-County Health Department
Telephone: 303-761-1340
Last EDR Contact: 01/27/1995
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

BOULDER COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Old Landfill Sites

Landfill sites in Boulder county.

Date of Government Version: 05/01/1986
Date Data Arrived at EDR: 11/14/1995
Date Made Active in Reports: 12/07/1995
Number of Days to Update: 23

Source: Boulder County Health Department
Telephone: 303-441-1182
Last EDR Contact: 01/30/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DENVER COUNTY:

Landfills in Denver County

Landfill sites in the city and county of Denver.

Date of Government Version: 12/01/1994
Date Data Arrived at EDR: 12/28/1994
Date Made Active in Reports: 01/31/1995
Number of Days to Update: 34

Source: City and County of Denver
Telephone: 303-436-7300
Last EDR Contact: 12/18/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DOUGLAS COUNTY:

Douglas County Landfill Key

Landfill sites in Douglas county.

Date of Government Version: 06/12/1991
Date Data Arrived at EDR: 02/16/1995
Date Made Active in Reports: 04/04/1995
Number of Days to Update: 47

Source: Tri-County Health Department
Telephone: 303-761-1340
Last EDR Contact: 01/27/1995
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

PUEBLO COUNTY:

Designated Disposal & Landfill Sites

Only inert materials. Asphalt, cement, dirt & rock unless otherwise specified. These sites are no longer active.

Date of Government Version: 04/30/1990
Date Data Arrived at EDR: 11/16/1995
Date Made Active in Reports: 12/07/1995
Number of Days to Update: 21

Source: Pueblo City-County Health Department
Telephone: 719-583-4300
Last EDR Contact: 11/13/1995
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

TRI COUNTY:

Tri-County Area Solid Waste Facilities List (Adams, Arapahoe and Douglas Counties)

Closed Domestic Landfills in Adams County, Closed Domestic Landfills in Arapahoe County, Closed Demolition Landfills in Arapahoe County, Closed Domestic Landfills in Douglas County.

Date of Government Version: 10/15/1983
Date Data Arrived at EDR: 02/16/1995
Date Made Active in Reports: 04/04/1995
Number of Days to Update: 47

Source: Tri-County Health Department
Telephone: 303-761-1340
Last EDR Contact: 01/27/1995
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

WELD COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Solid Waste Facilities in Weld County

Solid Waste Facilities in Weld County.

Date of Government Version: 05/17/2011
Date Data Arrived at EDR: 05/19/2011
Date Made Active in Reports: 06/13/2011
Number of Days to Update: 25

Source: Weld County Department of Public Health
Telephone: 970-304-6415
Last EDR Contact: 08/17/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 12/31/2007
Date Data Arrived at EDR: 08/26/2009
Date Made Active in Reports: 09/11/2009
Number of Days to Update: 16

Source: Department of Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 08/26/2011
Next Scheduled EDR Contact: 12/05/2011
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 12/31/2010
Date Data Arrived at EDR: 05/12/2011
Date Made Active in Reports: 05/24/2011
Number of Days to Update: 12

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 08/09/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2008
Date Data Arrived at EDR: 12/01/2009
Date Made Active in Reports: 12/14/2009
Number of Days to Update: 13

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 07/15/2011
Next Scheduled EDR Contact: 10/10/2011
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 07/06/2010
Date Made Active in Reports: 07/26/2010
Number of Days to Update: 20

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 10/03/2011
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data

Source: Rextag Strategies Corp.
Telephone: (281) 769-2247
U.S. Electric Transmission and Power Plants Systems Digital GIS Data

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Daycare Listing

Source: Department of Human Services

Telephone: 303-866-5958

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Riparian Vegetation Data

Source: Division of Wildlife

Telephone: 970-416-3360

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

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Ute Hwy WTP

499-475 UTE HWY

Longmont, CO 80503

Inquiry Number: 3161018.2

September 06, 2011

Certified Sanborn® Map Report

Certified Sanborn® Map Report

9/06/11

Site Name:

Ute Hwy WTP
499-475 UTE HWY
Longmont, CO 80503

Client Name:

Terracon
1242 Bramwood Place
Longmont, CO 80502

EDR Inquiry # 3161018.2

Contact: Eric Buol



EDR® Environmental Data Resources Inc

The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by Terracon were identified for the years listed below. The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by Sanborn Library LLC, the copyright holder for the collection.

Certified Sanborn Results:

Site Name: Ute Hwy WTP
Address: 499-475 UTE HWY
City, State, Zip: Longmont, CO 80503
Cross Street:
P.O. # NA
Project: 22117704
Certification # 9C18-492E-8457



Sanborn® Library search results
Certification # 9C18-492E-8457

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

The Sanborn Library includes more than 1.2 million Sanborn fire insurance maps, which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- Library of Congress
- University Publications of America
- EDR Private Collection

The Sanborn Library LLC Since 1866™

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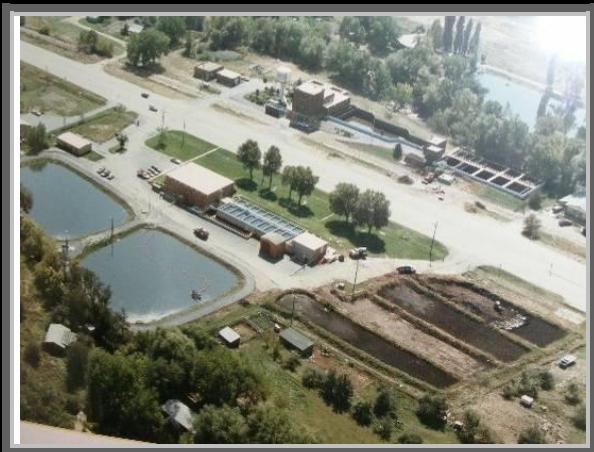
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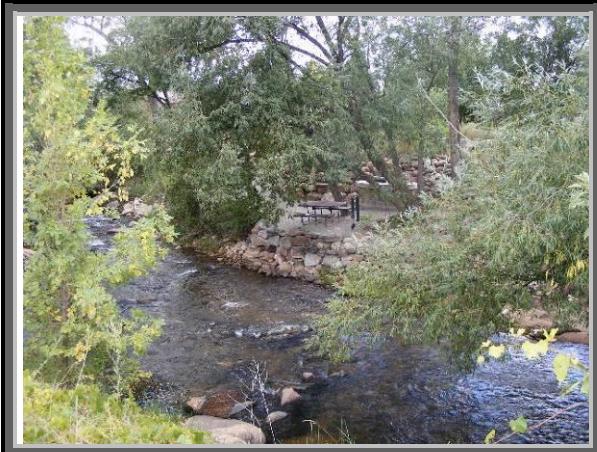
APPENDIX E

Site Photographs

SOUTH PLANT



Photograph 1: Historical aerial photograph of the North and South Plant, circa 1980s, view to the southeast.



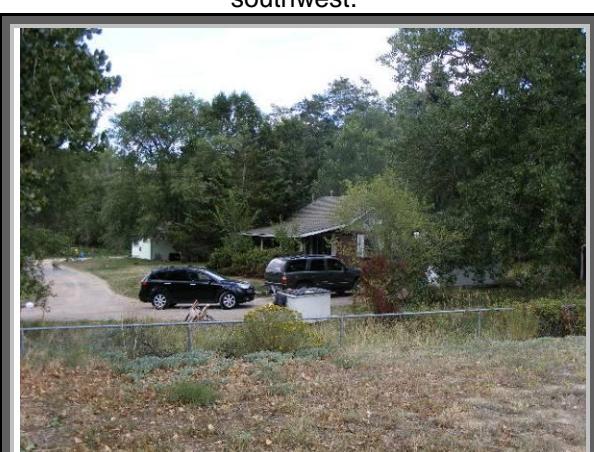
Photograph 2: View of property to the south, taken from the southwestern portion of the site.



Photograph 3: Historical aerial photograph of the South Plant, circa approx. 1950s, view to the southwest.



Photograph 4: View of property to the west, taken from the northwestern portion of the site.



Photograph 5: View of property to the east, taken from the east central portion of the site.



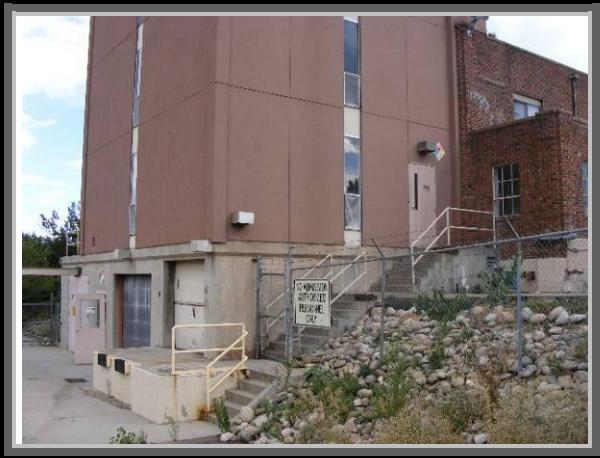
Photograph 6: View of the North Plant to the north, taken from the north central portion of the South Plant.



Photograph 7: View of the Main Building and Filter Building with Basin #2 in the foreground, taken from the southwest portion of the site.



Photograph 8: View of the Clearwell, Pump House and Soda Ash Silo, taken from the South Plant Main Entrance.



Photograph 9: View of the Main Building lower level – Bleach Room, Garage, and Elevator.



Photograph 10: View to the south of the Equipment Storage Bld., taken from the South Plant Main Entrance.



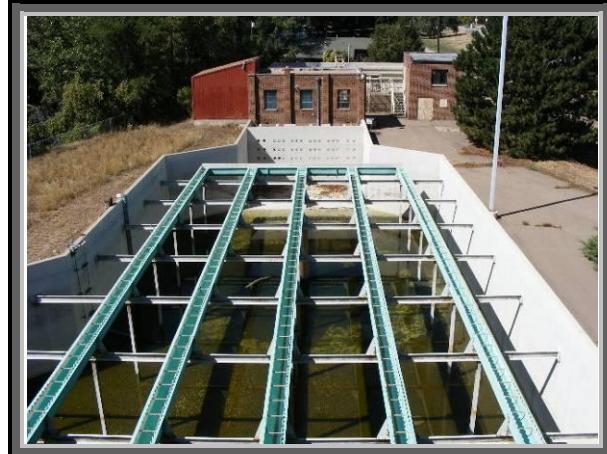
Photograph 11: View across the site to the north, taken from the south central portion of the South Plant.



Photograph 12: View across the site to the west, taken from the east central portion of the South Plant, Backwash Pool is in the foreground.



Photograph 13: View of Basin #1, looking to the west, taken from the Chemical Mixing Building.



Photograph 14: View of Basin #2, looking to the west, taken from the Filter Building roof, Chemical Mixing Bld is in the background.



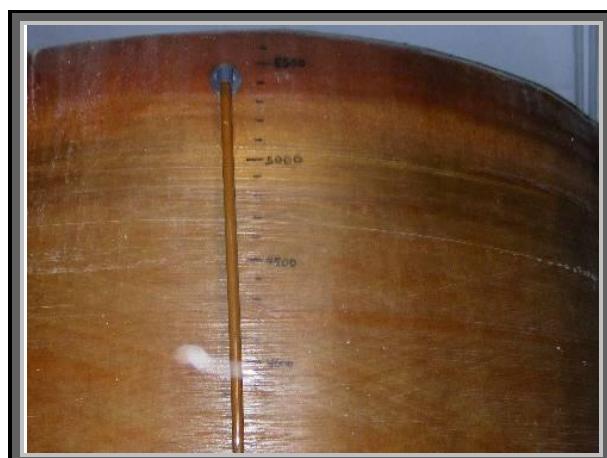
Photograph 15: Bleach/Chlorine storage room located in the basement of the Main Building.



Photograph 16: Interior floor drain in the Bleach/Chlorine Room.



Photograph 17: 6,000 gal metal AST for Aluminum Sulfate located in the Chemical Mixing Bld. in the western portion of the South Plant.

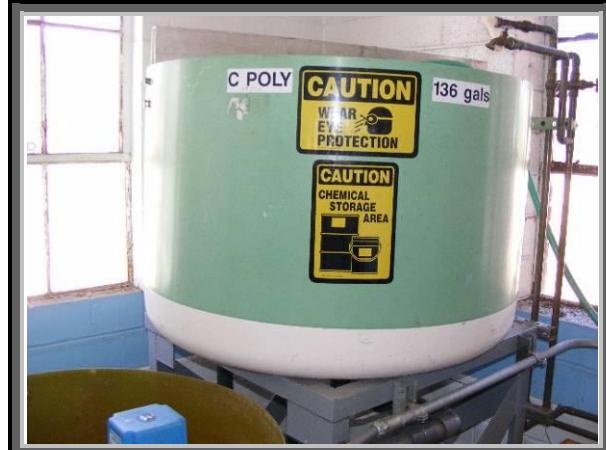


Photograph 18: 5,500 gal fiberglass AST for Aluminum Sulfate located in the Chemical Mixing Bld. in the western portion of the South Plant.

SOUTH PLANT



Photograph 19: Filter Room - contains six filter chambers, located in the central portion of the South Plant.



Photograph 20: Mixing tank for coagulation polymers, located in the northwest corner of the Filter Room.



Photograph 21: Analytical Testing laboratory, located in the third level of the South Plant Main Building.



Photograph 22: Hoppers for inducing Soda Ash, Sodium Fluoride, and Activated Carbon, located in the upper level of the Main Bld.



Photograph 23: View of the elevator controls and hydraulic fluid reservoir located in the basement of the South Plant Main Building.



Photograph 24: Stained concrete associated with elevator hydraulic pump and reservoir.



Photograph 25: 55-gallon drums, 4 empty and 2 partially full, located on the north side of the Equipment Storage Building.



Photograph 26: 5-gallon containers of gasoline and kerosene located on the eastern side of the Equipment Storage Building.

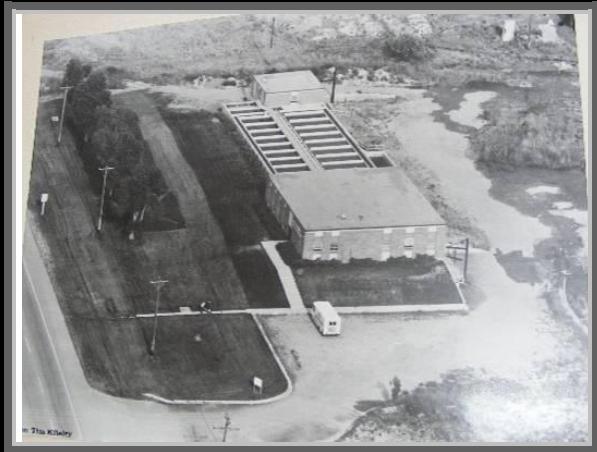


Photograph 27: View of operations debris located on the south side of the Clearwell in the eastern portion of the site.



Photograph 28: View of vacuum system inside the Soda Ash Silo located in the eastern portion of the site.

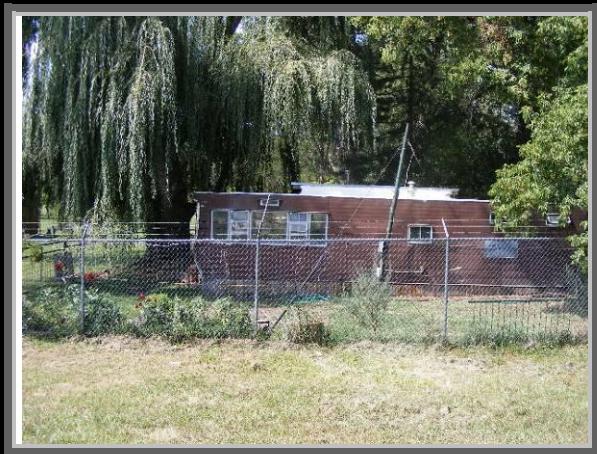
NORTH PLANT



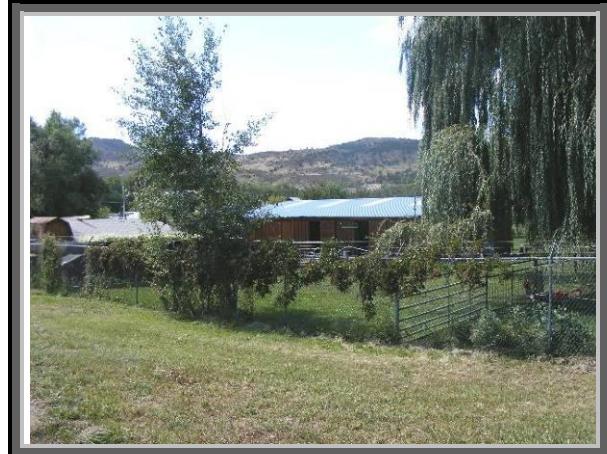
Photograph 1: Historical aerial photograph of the North Plant, circa approx. 1970s, view to the west.



Photograph 2: View of property to the north, taken from the north central portion of the site.



Photograph 3: View of property to the west, taken from the northwestern portion of the site.



Photograph 4: View of property to the west, taken from the northwestern portion of the site.



Photograph 5: View of property to the west, taken from the west central portion of the site.



Photograph 6: View of the property to the east, taken from the northeastern portion of the site.

NORTH PLANT



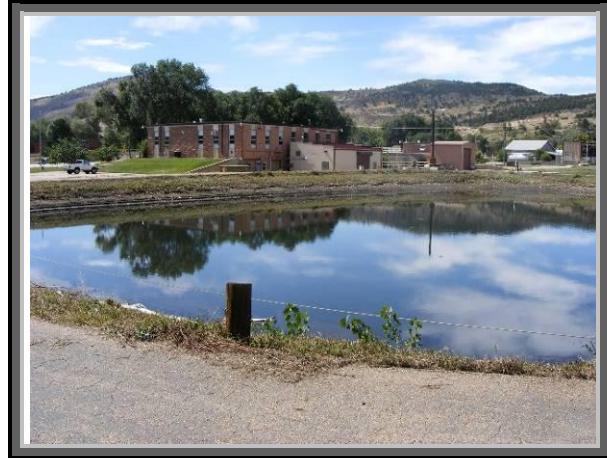
Photograph 7: View of the South Plant to the south, taken from the southwest portion of the North Plant.



Photograph 8: View, looking east, of the sludge storage/drying pad and sludge belt press bld located in the western portion of the site.



Photograph 9: View, looking east, of the Chemical Mixing and Alum Storage Buildings.



Photograph 10: View across the site to the southwest, taken from the northeastern corner of the site.



Photograph 11: View across the site to the northeast, taken from the southwestern portion of the North Plant.



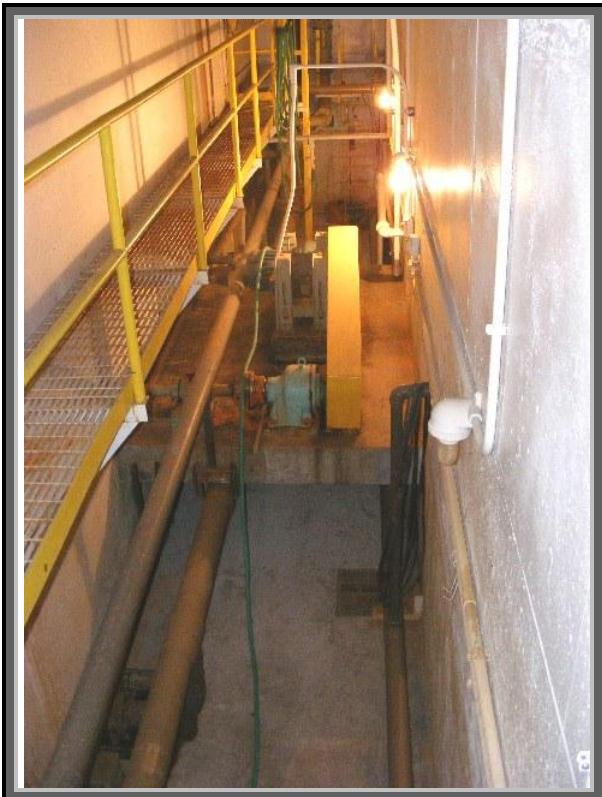
Photograph 12: View across the site to the northeast, taken from the south central portion of the North Plant.



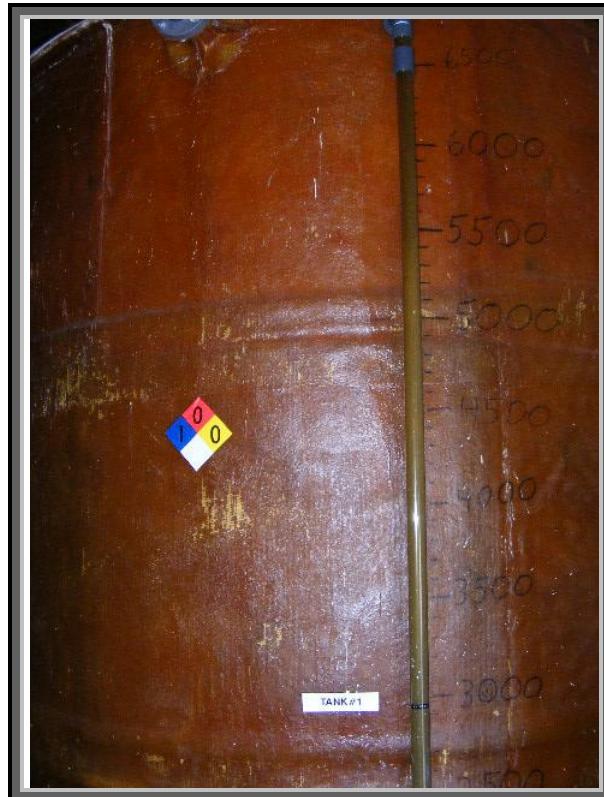
Photograph 13: View of the analytical testing laboratory located in the Filter Building.



Photograph 14: View of the Floc-Sed Basin, looking to the west, taken from the Filter Bld.



Photograph 15: View of the mixing mechanism room for the floc-sed basin, located on the west end of the basin.



Photograph 16: 6,500 gal fiberlass AST for Aluminum Sulfate located in the Alum Storage Bld. in the western portion of the North Plant.

NORTH PLANT



Photograph 17: View of dry chemical hoppers in lower level of Chemical Mixing Room.



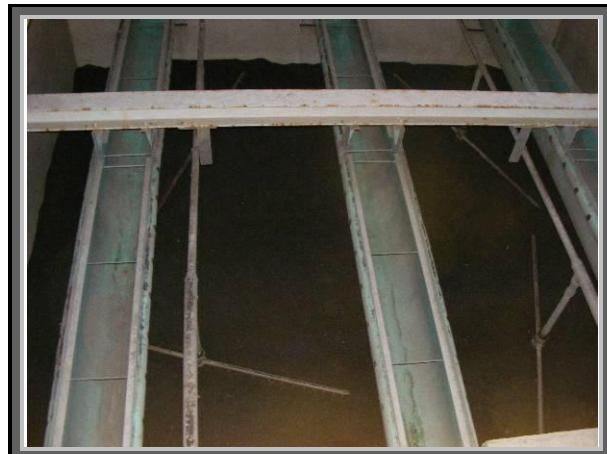
Photograph 18: Mixing tanks for coagulation and flocculation polymers, located in lower level of Chemical Mixing Room.



Photograph 19: View of filter material cross section – Anthracite Coal overlying graded sand and gravel.



Photograph 20: Filter Room of the North Plant - contains four filter basins.



Photograph 21: Overhead view of North Plant filter basin.

NORTH PLANT



Photograph 22: Approx. 4,000 gal metal ASTs for Bleach located in the Bleach/Chlorine Bld. in the central portion of the North Plant.



Photograph 23: Partially full 55-gallon drums, labeled "Diesel Fuel Pad", located in the northeastern portion of the site.



Photograph 24: Partially full and empty 55-gallon drums, located on the south side of the Floc-Sed Basin.



Photograph 25: Partially full 55 and 35-gallon drums, labeled "Floran Catalyst", located in the lower level of the Filter Building.



Photograph 26: Containers of hazardous materials near the floor drain in the Maintenance Building located in the eastern portion of the site.



Photograph 27: 35-gallon drum with hand pump labeled "Zep Formula 50", located in the Alum Storage Building.

APPENDIX F

Credentials

DANA L. HARRIS

ENVIRONMENTAL DEPARTMENT MANAGER



PROFESSIONAL EXPERIENCE

Mr. Harris is an Environmental Department Manager at Terracon with more than sixteen years of professional experience in environmental consulting. He provides supervision of department projects and staff involved with environmental assessments, soil and groundwater remediation, environmental audits and compliance services, and industrial hygiene. Mr. Harris serves as point of contact and senior project manager for local, regional, and national clients.

Mr. Harris has a broad base of experience that includes numerous environmental services for a diverse range of clients and project sites.

PROJECT EXPERIENCE

• **AVA Solar – Fort Collins, Colorado**

Project Manager on 100% outsourced environmental compliance services for photovoltaic cell manufacturer. Directed comprehensive environmental compliance evaluation, developed environmental compliance program and directed establishment of environmental policies and plans.

• **Solix Biofuels – Fort Collins, Colorado**

Project Manager. Managed Spill Prevention Control and Countermeasures (SPCC) during pre-construction planning and permitting process for alternative energy production facility. Consulted regarding site redevelopment of former waste dump site. Assisted with hazardous materials compliance for quality control laboratories. Provided pre-demolition asbestos consulting, including comprehensive asbestos survey of existing buildings. Participated in regular development team meetings.

• **McDonald's – Thornton, Colorado**

Project Manager. Assisted McDonald's Corporation with redevelopment of restaurant located within zone of chlorinated solvent groundwater contamination, previously investigated by Colorado Department of Public Health and Environment (CDPHE) under Voluntary Cleanup (VCUP) program. Prepared design of vapor barrier and venting system for new restaurant and submitted design for approval under VCUP program.

• **Fort Collins-Loveland Airport – Loveland, Colorado**

Project Manager. Directed and participated in initial response to aviation fuel release; installed soil borings and groundwater monitoring wells; directed geophysical investigation of abandoned subsurface pipeline; conducted site characterization, contaminant delineation, quarterly groundwater monitoring, MTBE investigation, groundwater fate and transport modeling using Bioscreen software, Tier 1 risk assessment; and successfully obtained risk-based closure from Colorado OPS based on Monitored Natural Attenuation.

• **Deep Rock Water – Nationwide**

Project Manager. Managed and assisted with Phase I and Phase II Environmental Site Assessments (ESAs) of national portfolio of bottled water production and distribution facilities.

• **Kum & Go – Nationwide**

Project Manager for environmental due diligence and site development

EDUCATION

Bachelor of Arts, Environmental Science, 1992, University of Virginia

CERTIFICATIONS

Asbestos Building Inspector, State of Colorado

Asbestos Air Monitoring Specialist, State of Colorado

HAZWOPER Site Worker (40 hour)

HAZWOPER Supervisor (8 hour)

Erosion Control Supervisor, Colorado Dept. of Transportation

American Red Cross First Aid/CPR

WORK HISTORY

Terracon, Environmental Department Manager, 2008-present

Stewart Environmental Consultants, Inc., Project Manager, 2002-2008

URS/Dames & Moore, Project Manager, 1996-2002

Versar, Inc., Environmental Scientist, 1992 - 1996

environmental services for new and redeveloped gas station and convenience store sites.

PROJECT EXPERIENCE (CONTINUED)

- **Kemper Insurance – Nationwide**

Performed Environmental Impairment Liability audits for pollution liability coverage of various industrial facilities throughout the United States.

- **National Hog Farms – Kersey, Colorado**

Assisted succession of two separate facility owners and operators in compliance with CDPHE Consent Order requiring facility to monitor and remediate nitrate, phosphate, and heavy metals contamination of soils, groundwater, and the South Platte River from former Concentrated Animal Feeding Operation (CAFO). Performed statistical analysis of quarterly water sampling data and tri-annual soils data. Prepared Financial Assurance Plan.

- **Denver Iron & Metals – Denver, Colorado**

Project Manager. Characterized soils accumulated in stockpile area at scrap metal facility. Performed feasibility study for remediation of heavy metals contamination and selected in situ soil stabilization using fly ash or lime. Arranged for free delivery of fly ash from nearby power plant and successfully demonstrated application of remediation technique in bench scale and pilot tests. Directed field work grading soil piles into appropriate lift sizes, spreading and mixing delivered fly ash, and mixing correct ratio of water. Performed post-remediation verification soil sampling and analysis and successfully obtained case closure from CDPHE.

- **Interstate Warehouse Park – Golden, Colorado**

Project Manager. Managed and performed site assessment of soil and groundwater contamination of CDPHE hazardous waste site. Characterized chlorinated solvent contamination from historical onsite printing operation and demonstrated additional migration of contaminants from known upgradient source. Obtained conditional case closure after three years of investigation and monitoring.

- **City of Loveland – Loveland, Colorado**

Project Manager for as-needed environmental services contract. Managed and performed Phase I / Phase II ESAs; unknown waste sampling, characterization, and disposal assistance; asbestos, mold, and industrial hygiene services; SPCCs; and emergency response coordination. Managed turnkey demolition services, including comprehensive scope of work development, contractor bid specification development, contractor selection, technical and financial project management, contractor and City coordination, and reporting.

- **Northern Colorado Water Conservancy – Loveland, Colorado**

Project Manager. Conducted Phase I ESA and Asbestos Survey of District Headquarters. In order to obtain indemnification from the State for petroleum-contaminated groundwater migrating onto property from an adjacent gas station, prepared VCUP application and submitted to CDPHE. Following contract to sell property, prepared a second VCUP submittal in which a risk assessment was conducted to show property met State requirements for residential development.

- **Office Park – Englewood, Colorado**

Project Manager. Performed groundwater contaminant delineation for hydrocarbon plume that had migrated onto site from neighboring gas station. Obtained No Action Determination through VCUP program.

- **Environmental Site Assessments – Worldwide**

Managed or performed more than 1,000 environmental assessments of commercial and industrial sites in more than 38 states in the U.S., as well as in Canada, Mexico, South America, and Europe.

- **FracTech well stimulation services – Nationwide**

Project Manager. Managed and performed Phase I ESAs for new site acquisitions. Performed environmental compliance audits at existing facilities and assisted with air permitting and stormwater compliance.

- **JW Operating – Colorado**

Assisted with stormwater and SPCC services for various oil and gas facilities in Colorado.

- **Front Range Community College – Colorado**

Project Manager for SPCCs of Loveland and Westminster campuses.

- **University of Colorado at Boulder – Boulder, Colorado**

Managed and performed asbestos surveys, project design and bid assistance, abatement oversight, and asbestos air monitoring and clearance services for various university facilities.

- **Colorado State University – Fort Collins, Colorado**

Managed and performed asbestos surveys, project design and bid assistance, abatement oversight, and asbestos abatement air monitoring and clearance services for various university facilities.

- **AIMS Community College – Greeley, Colorado**

Managed and performed asbestos surveys, project design and bid assistance, abatement oversight, and asbestos air monitoring and clearance services for various university facilities.

- **Lionshead Village – Vail, Colorado**

Performed Phase I and Phase II Environmental Assessment of several major buildings schedule to be demolished and redeveloped at ski resort. Performed asbestos abatement air monitoring and clearance services.

- **Eagle County School District – Eagle County, Colorado**

Project Manager for various school acquisition, development, and renovation projects. Assisted with Phase I Environmental Site Assessments, asbestos surveys, asbestos abatement project design and bid solicitation services, mercury gym floor demolition, and asbestos abatement project management.

- **Thompson School District – Loveland, Colorado**

Project Manager for mandatory three-year asbestos inspection updates and various asbestos survey, design, and abatement project management services. Performed 2-hour asbestos awareness training for large groups of school district custodial and maintenance staff.

- **Industrial Hygiene/Safety – Various Facilities**

Has performed numerous industrial hygiene, indoor air quality (IAQ), mold, and radon investigations at various facilities throughout the United States. Personnel monitoring included asbestos, respirable dusts and silica, hexavalent chromium and other metals, solvents, formaldehyde, PCBs, pesticides, and others. Performed mold investigations at more than 30 sites in Colorado and Wyoming and managed mold mitigation design, bid assistance, and clearance services at numerous sites in Colorado and Wyoming. Assisted with health and safety plan preparation and training.

ERIC A. BUOL

STAFF GEOLOGIST

PROFESSIONAL EXPERIENCE

Mr. Buol is a Staff Geologist for Terracon's Longmont, Colorado office. His responsibilities include structural field inspections for conformance with plans and specifications during various stages of development on residential and commercial sites. Mr. Buol is also responsible for performing Phase I Environmental Site Assessments (ESAs), and geotechnical investigations including site layout, and field exploration (drilling).

Assisting our construction materials department when needed, Mr. Buol assists our construction materials engineering and testing department, performing field and laboratory evaluations of concrete, asphalt, and soils. Mr. Buol is Terracon's sustainability coordinator for the Longmont office. Mr. Buol helps coordinate and promote practical, sustainable practices in the office and in the field.

PROJECT EXPERIENCE

St. Vrain Valley, Boulder Valley School Districts – Longmont and Boulder, Colorado

Performed geotechnical investigations for several schools including Ryan Elementary, Sanchez Elementary, Hygiene Elementary, and Frederick High School. Also conducted construction materials testing and observations on new schools in Longmont, Erie, Mead, and Firestone, Colorado. Testing and observations included soils, caissons, concrete, reinforcing steel, structural steel, spray-applied fire resistant material, and masonry.

Brighton Middle School – Brighton, Colorado

Performed structural steel observations and vapor emission tests during the remodeling of Brighton High School, as well as during construction of the new Brighton Middle School.

Windmill Generator Farm – Weld County, Colorado

Performed a geotechnical exploration for a windmill generator farm near Grover, Colorado in Weld County. Services were performed in collaboration with Terracon's Greeley office staff.

Residential Developments – Colorado

Performed geotechnical investigations and construction materials engineering and testing services on developments throughout Weld and Boulder Counties. Also designed individual sewage disposal systems (ISDS) for single-family homes in Weld, Boulder, Larimer and Adams Counties. Designs included evapotranspiration, absorption, and combination systems.

Phase I Environmental Site Assessments – Colorado

Conducted Phase I ESAs for several sites in Longmont, Boulder County, and Weld County. Sites included undeveloped land and agricultural property, hotels, residential areas, former gravel quarries, asphalt plants, storage areas, churches, a sugar processing plant parcel, and automobile service facilities, as well as for the Kimbark Street proposed parking

Education

Bachelor of Science, Geology, Colorado State University, 1998

Certifications

40-Hour OSHA HAZWOPER Certification

8-Hour OSHA Refresher Courses

NDE Level II per SNT-TC-1A (Visual Testing of Structural Steel) 1/2007

Phase I Environmental Site Assessment Fundamental, 5/2006

Roof Observer Training, 12/2005

Nuclear Density Gauge Safety Training

Work History

Terracon Consultants, Inc., Staff Geologist, 2006-Present; Field Technician, 2004-2006

Bear Construction and Design, Inc., Carpenter/Framer, 2001-2004

Holnam, Inc., Petographer, 1997-2000

structures for the City of Longmont.