CleanEarth

October 28, 2025

Ms. Sheryl Fontaine
Chief | Bureau of Administrative Services
Nevada Division of Environmental Protection
Department of Conservation and Natural Resources
901 S. Stewart Street, Suite 4001, Carson City, Nevada 89701

Subject: **Application for Variance Per NAC 444.8472**
21st Century Environmental Management of Nevada, LLC

Dear Ms. Fontaine,

21st Century Environmental Management of Nevada, LLC (21EMN) owns and operates a hazardous waste storage and treatment facility at 2095 Newlands Drive East in Fernley, Nevada (Facility). 21EMN has purchased the adjacent 18.9-acre property located at 2185 Newlands Drive East (Site) to expand the Facility's hazardous waste management activities.

A Certificate of Designation Application for the Site was submitted to the Nevada Division of Environmental Protection (NDEP) Bureau of Sustainable Materials Management (BSMM) on September 23, 2024, and a Denial of Certificate of Designation Application letter was issued by BSMM on March 7, 2025. Therefore, 21EMN submits this Application for Variance containing an executive summary and the requirements listed in Nevada Administrative Code (NAC) 444.8472 to the Secretary of the Nevada State Environmental Commission (SEC).

Should SEC or NDEP BSMM have any questions or comments regarding this request, please contact TJ McCaustland of 21EMN at 770-891-2531 or tmccaustland@cleanearthinc.com or William Shane of ALL4 LLC at 859-233-0123 or wshane@all4inc.com.

Sincerely,

TJ McCaustland
Permitting Compliance Manager

cc: Jocelyn Moran – NDEP BSMM
Jonathan Zittel – NDEP BSMM
Christopher Locken – NDEP BSMM
Annalyn Settelmeyer – NDEP BSMM
William Shane – ALL4 LLC
Lindsay Salvador – ALL4 LLC
Paul Johnson – ALL4 LLC

CERTIFICATE OF DESIGNATION - APPLICATION FOR VARIANCE

2185 NEWLANDS DRIVE EAST, FERNLEY NEVADA 89408

21ST CENTURY ENVIRONMENTAL MANAGEMENT OF NEVADA, LLC

OCTOBER 2025

SUBMITTED BY:

CleanEarth

21st Century Environmental Management of Nevada, LLC
2095 Newlands Drive East
Fernley, NV 89408

SUBMITTED TO:

NEVADA
STATE ENVIRONMENTAL COMMISSION

Nevada State Environmental Commission
901 South Stewart Street
Suite 4001
Carson City, Nevada 89701

Executive Summary of NAC 444.8472 Application for Variance

21st Century Environmental Management of Nevada, LLC (21EMN) owns and operates a hazardous waste storage and treatment facility in Fernley, Nevada (Facility). The Fernley Facility is located at 2095 Newlands Drive East in the City of Fernley, Lyon County, Nevada and operates under Resource Conservation and Recovery Act (RCRA) Permit No. NEVHW0033.

21EMN submitted a Certificate of Designation Application on September 23, 2024 to expand the Fernley Facility to include the adjacent 18.9-acre property at 2185 Newlands Drive East (Site). 21EMN purchased this property with the intent to construct and operate a fuel blending unit, a universal waste lamp treatment unit, and additional RCRA storage. No land disposal will take place at the Fernley Facility or at the Site. The proposed Site did not satisfy all of the siting requirements per NAC 444.8456, and a Denial of Certificate of Designation Application letter was issued by Nevada Division of Environmental Protection (NDEP) Bureau of Sustainable Materials Management (BSMM) on March 7, 2025. This application is submitted to request a variance from the Siting requirements in NAC 444.8456 which were not met.

The attached variance application, which was prepared in accordance with the requirements listed in NAC 444.8472, addresses the unmet siting requirements, possible effects on the environment and public health under the worst expected adverse conditions if the variance is approved. The application also discusses how day-to-day operations will be proactively managed to prevent spills, releases, and impacts to the environment and public health. The existing RCRA Facility Contingency Plan which contains Facility response procedures will be updated to include the new Site and new operations. The expansion will include secondary containment for all new tanks, a PFAS-free fire suppressant system, and will be equipped with engineering controls to withstand natural disasters including earthquakes, fires, storm events, and flooding.

Expansion of the Fernley Facility will provide economic benefits to the northern Nevada region:

Economic Benefits of Expansion

1. A cost-effective treatment option for local and regional businesses. Currently, the Facility transports fuel blending wastes from the northern Nevada region to Texas. The expansion will reduce shipping costs and lower costs for customers.

2. Additional jobs. The expansion will include approximately 20 new full-time jobs at the start of expansion operations and new jobs each year thereafter. Additional temporary jobs and construction contracts will be needed for the construction of the expansion.

3. Quarterly fee payment to BSMM. It is expected that the quarterly fees will increase by two to three times due to the increase in volume of waste processed.

4. Development of vacant industrial property within the Fernley Community. A pre-existing chromium plume was present prior to 21EMN's ownership of the Facility and the Site. The expansion will develop and bring economic benefit from land that would likely have remained undeveloped due to existing liabilities.

Expansion of the Fernley Facility will also result in benefits to the environment:

Environmental Benefits of Expansion

1. Management of a pre-existing chromium plume at the Facility. 21EMN can better manage, monitor, and mitigate the plume on the new Site and accepts the responsibility and liability of managing it.

2. Usage of blended fuels from the fuel blending unit by cement kiln facilities as a replacement for coal. Blended fuels will displace the usage and dependence of coal in cement kiln operations and waste liquids will be treated instead of landfilled.

3. Treatment of fuel blending wastes locally. Waste is currently trucked to a facility in Texas to be treated. By decreasing shipping distances, significantly less diesel fuel will be used which will proportionally decrease the quantity of air emissions generated, including greenhouse gases.

TABLE OF CONTENTS

Section Name **Page Number**

1. INTRODUCTION 1-1

2. DESCRIPTION OF REGULATED ACTIVITIES PERFORMED BY THE APPLICANT 2-1

2.1 GENERAL FACILITY INFORMATION 2-1

2.2 PROPOSED FACILITY EXPANSION OPERATIONS – FUEL BLENDING UNIT 2-3

2.2.1 Design and Capacity 2-3
2.2.2 Waste Characteristics 2-3
2.2.3 Process Description 2-3

2.3 PROPOSED FACILITY EXPANSION OPERATIONS – RCRA STORAGE 2-4

2.3.1 Waste Characteristics 2-4
2.3.2 Process Description 2-5
2.3.3 Inspections 2-5

2.4 PROPOSED FACILITY EXPANSION OPERATIONS – UNIVERSAL WASTE LAMP TREATMENT UNIT 2-6

2.4.1 Design and Capacity 2-6
2.4.2 Process Description 2-6

2.5 ECONOMIC BENEFITS OF EXPANSION 2-6

2.6 ENVIRONMENTAL AND PUBLIC HEALTH BENEFITS OF EXPANSION 2-7

3. VARIANCE REQUEST 3-1

3.1 DESCRIPTION OF THE VARIANCE REQUESTED 3-1

3.2 REASONS FOR SEEKING THE VARIANCE 3-2

4. FACILITY SITING DETAILS 4-4

4.1 A DWELLING, SCHOOL, CHURCH, COMMUNITY CENTER, PUBLIC PARK, OR RESIDENTIAL USE AREAS 4-4

4.2 WILDLIFE MANAGEMENT AREAS 4-4

4.3 WILDLIFE KEY HABITAT, THREATENED OR ENDANGERED SPECIES HABITAT 4-5

4.4 AN AREA WHERE SURFACE WATER OR WETLANDS OCCUR 4-5

4.5 NATURAL OR MAN-MADE GEOLOGIC HAZARDS 4-6

4.6 PUBLIC DRINKING WATER WELLS 4-6

4.7 HISTORICAL OR ARCHEOLOGICAL SITES 4-7

4.8 FLOODPLAIN REQUIREMENTS 4-7

5. ENVIRONMENTAL EFFECTS UNDER THE WORST EXPECTED ADVERSE CONDITIONS IF VARIANCE IS GRANTED 5-1

5.1 SPILLS, LEAKS, AND DISCHARGES UNDER THE WORST EXPECTED ADVERSE CONDITIONS 5-1

5.2 FIRES AND EXPLOSIONS UNDER THE WORST EXPECTED ADVERSE CONDITIONS 5-3

5.3 NATURAL DISASTERS 5-4

6. EFFECTS ON THE LOCAL ENVIRONMENT AND PUBLIC HEALTH UNDER THE WORST EXPECTED ADVERSE CONDITIONS IF GRANTED VARIANCE 6-7

6.1 SOIL OR GROUNDWATER CONTAMINATION UNDER THE WORST EXPECTED ADVERSE CONDITIONS 6-7
6.2 EFFECTS ON FLORA AND FAUNA 6-8
6.3 EXCESSIVE NOISE 6-8
6.4 SPILLS AND DISCHARGES 6-9
6.5 FIRES AND EXPLOSIONS 6-10
6.6 HARDSHIP TO THE APPLICANT 6-10
6.7 ECONOMIC BENEFITS OF EXPANSION 6-11
6.8 ENVIRONMENTAL AND PUBLIC HEALTH BENEFITS OF EXPANSION 6-12
7. PRIOR JUDICIAL OR ADMINISTRATIVE PROCEEDING AFFECTING THE FACILITY 7-1

LIST OF FIGURES

Figure 1-1 Facility Location Map

Figure 1-2 Site Aerial Map

Figure 4-1 City of Fernley Street Map

Figure 4-2 NDOW Wildlife Areas Map

Figure 4-3 National Wetlands Inventory Map

Figure 4-4 Quaternary Fault Map

Figure 4-5 FEMA Floodplain Map

LIST OF TABLES

Table 3-1 Summary of Unsatisfied NAC 444.8456 Requirements 3-2

Table 5-1 Inspection Schedule 5-2

LIST OF APPENDICES

Appendix A – Endangered Species Report

Appendix B – Nevada's Historic Sites

Appendix C – Certificate of Designation Application

Appendix D – Denial of Certificate of Designation Application

Appendix E – RCRA Contingency Plan

Appendix F – Railcar Loading and Unloading SOP

Appendix G – RCRAInfo Facility Report

Appendix H – ECHO Database Report

1. INTRODUCTION

21st Century Environmental Management of Nevada, LLC (21EMN) owns and operates a hazardous waste storage and treatment facility in Fernley, Nevada (Fernley Facility). The Fernley Facility is located at 2095 Newlands Drive East in the City of Fernley, Lyon County, Nevada and operates under Resource Conservation and Recovery Act (RCRA) Permit No. NEVHW0033 effective December 19, 2019. A RCRA Permit Renewal Application was submitted to the Nevada Department of Environmental Protection (NDEP) on June 24, 2024. A revised renewal application was submitted at the request of NDEP on September 5, 2025.

21EMN has purchased the adjacent 18.9-acre property located at 2185 Newlands Drive East (Site) to expand the Fernley Facility with the following hazardous waste management activities (Project):

1. Construction and Operation of a fuel blending unit;
2. Construction and Operation of a universal waste lamp treatment unit;
3. Additional RCRA storage; and
4. No land disposal will take place at the Fernley Facility or at the Site.

A description of the proposed Project operations is included in Sections 2.2 through 2.4 of this document.

A Certificate of Designation Application for the property located at 2185 Newlands Drive East, Fernley, Lyon County, Nevada was submitted to the Nevada Division of Environmental Protection (NDEP) Bureau of Sustainable Materials Management (BSMM) on September 23, 2024 (see Appendix C) and a Denial of Certificate of Designation Application letter was issued by BSMM on March 7, 2025 (see Appendix D). Therefore, 21EMN submits this Application for Variance containing the requirements listed in Nevada Administrative Code (NAC) 444.8472 to the Secretary of the Nevada State Environmental Commission (SEC).



Legend

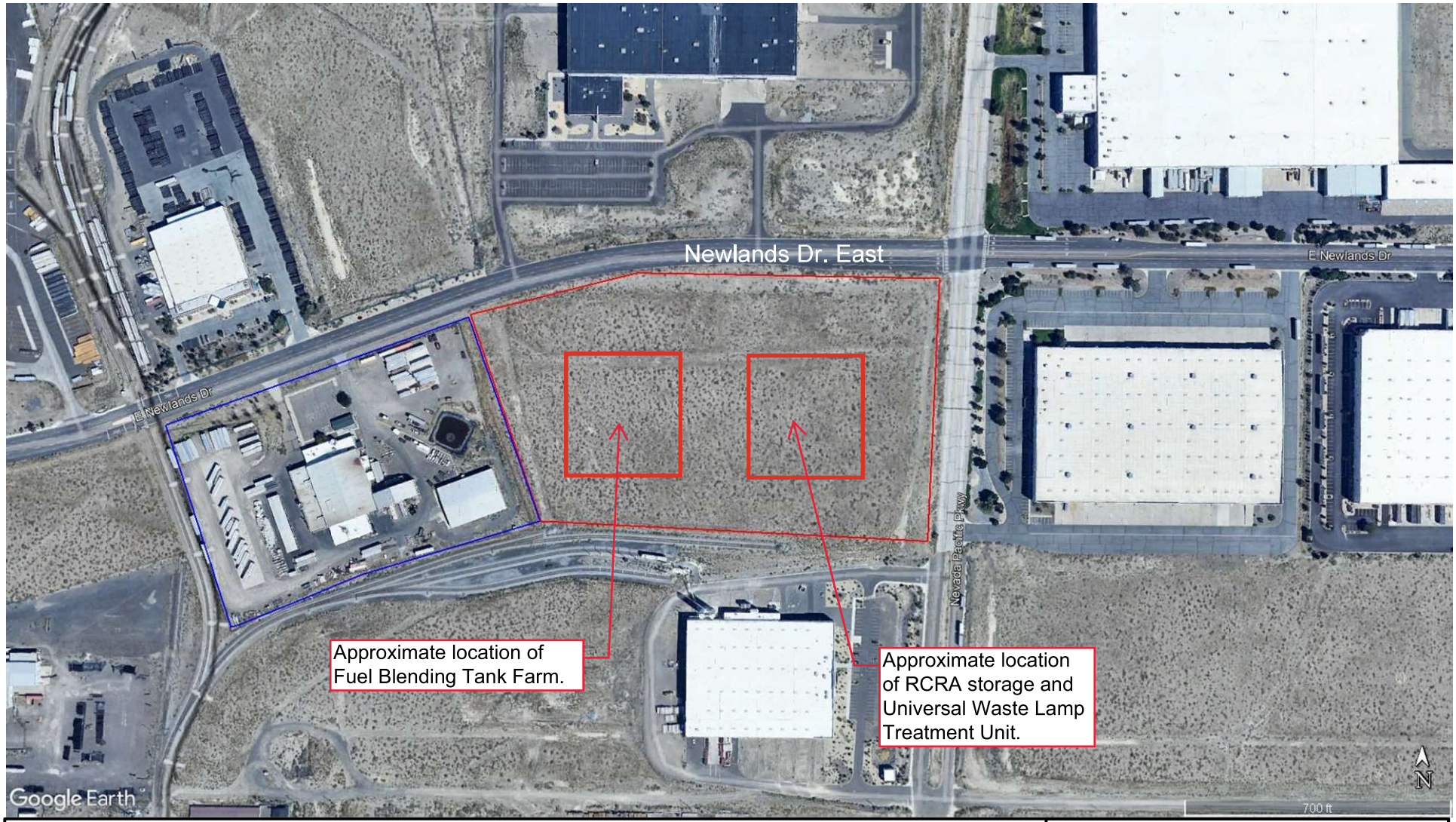
2095 & 2185 Newlands Drive East – Existing and Proposed 21EMN Facilities

Figure 1-1
Facility Location Map

21st Century Environmental Management of Nevada, LLC
2095 & 2185 Newlands Drive East
Fernley, Nevada 89408

PREPARED BY:	CHECKED BY:
MHF	**NWK**
DATE:	PROJECT NO.:
July 2024	**01049-0035**

Image Courtesy of Google Earth Pro. Retrieved July 16, 2024.



Legend

- 2095 Newlands Drive East – Existing 21EMN Facility
- 2185 Newlands Drive East – Proposed Facility Expansion

Figure 1-2
Site Aerial Map

21st Century Environmental Management of Nevada, LLC
2095 & 2185 Newlands Drive East
Fernley, Nevada 89408

PREPARED BY:	CHECKED BY:
MHF	**NWK**
DATE:	PROJECT NO.:
July 2024	**01049-0035**

Image Courtesy of Google Earth Pro. Retrieved July 16, 2024.

2. DESCRIPTION OF REGULATED ACTIVITIES PERFORMED BY THE APPLICANT

The proposed Project is to expand the Fernley Facility to include the adjacent 18.9-acre property at 2185 Newlands Drive East for the construction and operation of a fuel blending unit, a universal waste lamp treatment unit, and additional RCRA storage. No land disposal will take place at the Fernley Facility or at the Site.

2.1 GENERAL FACILITY INFORMATION

Facility Name	Facility Operator & Owner
21st Century Environmental Management	21st Century Environmental Management
of Nevada, LLC	of Nevada, LLC
2095 Newlands Drive East	2095 Newlands Drive East
Fernley, Nevada 89408	Fernley, Nevada 89408
Phone: (755) 575-2760	Phone: (755) 575-2760
U.S. EPA ID No. NVD980895338	

The Fernley Facility currently processes organic and inorganic non-hazardous and hazardous wastes as a commercial hazardous waste storage and treatment facility. Clean Earth took ownership of the existing Facility beginning in 2020. The Facility has been operating as a storage and treatment facility since 1986 and is well established in the community. Land use for the Facility and surrounding properties is permitted and zoned by the City of Fernley as Zone I, which includes Light and Heavy Industry. The zoning determination for industrial use has not changed since the permit was issued.

Typical wastes managed at the Fernley Facility include acids, alkalis, metal-bearing aqueous liquids and sludges, cyanides, batteries, and household hazardous wastes. The Fernley Facility can receive, store, and process waste in either bulk loads or containers. Received wastes may include high-BTU liquids with volatile organic compounds (VOC) concentrations greater than 500 parts per million by weight (ppmw),

as well as low-BTU, lean waters, consistent with the types of hazardous and non-hazardous wastes managed at the Fernley Facility.

Currently permitted hazardous waste operations at the Fernley Facility occur on approximately seven of the 10 acres that comprise the existing Fernley Facility property. Portions of the property that are not designated for permitted hazardous waste management operations may be subdivided and/or segregated for other compatible uses and activities. A Fernley Facility Layout Map of current operations is provided as *Figure 1-1*.

Current Facility operations consist of:

- Seven Container Storage Units;
- Three Oxidizer Waste Locker Storage Units;
- One Waste Locker Storage unit for Fireworks or Oxidizers;
- Six Alkaline/Cyanide Storage Tanks;
- Two Alkaline Storage Tanks;
- 11 Acid Storage Tanks;
- Seven Chemical Treatment Tanks;
- Seven Post-Treatment/Storage Tanks;
- One Evaporator;
- Three Filter Presses;
- Lab Pack and Loose Pack Consolidation Operations;
- One Aerosol Processing Unit (APU) with Regenerative Thermal Oxidizer (RTO) (approved by NDEP but not yet constructed); and
- Two APU Tanks (approved by NDEP but not yet constructed).

Treatment of wastes includes chemical and physical treatment. Specific processes used to manage wastes at the Facility include:

- Chemical Oxidation, Reduction, and Precipitation Cyanide Destruction;

- Dewatering;
- Evaporation;
- Filtration;
- Compaction and Separation; and
- Lab Packing and Loose Packing Neutralization.

2.2 PROPOSED FACILITY EXPANSION OPERATIONS – FUEL BLENDING UNIT

The Fernley Facility proposes to construct and operate a fuel blending tank farm at the Site for organic waste streams and inorganic waste streams.

2.2.1 Design and Capacity

The proposed fuel blending tank farm will contain eight to twelve 18,000-gallon (or less) fuel blending tanks for a maximum capacity of 200,000 gallons. Tanks will be welded stainless steel construction above ground storage tanks (AST). In general, fuel blending waste will be received by truck and shipped off by truck or rail using a rail spur to be constructed at the Site.

2.2.2 Waste Characteristics

High British Thermal Unit (BTU) liquids including paints, inks, solvents, styrenes, adhesives, sealants, fuels, oils, and VOC concentrations which may be greater than 500 ppmw, and low BTU, lean waters will be used. Blended fuels will be sold to cement kiln facilities to displace usage of coal in their operations or disposed off-site.

2.2.3 Process Description

Waste received at the Fernley Facility will be evaluated based on the Facility's RCRA Waste Analysis Plan. A compatibility test will be performed prior to storage in the Tank Farm. Compatibility with the tanks themselves, as well as material that is already in storage will be assessed prior to unloading. Based on the Quality Assurance/Quality Control results, waste profile, and data, the Facility will determine if the waste

can be added to a partially full AST, if the waste needs to be stored in an empty AST, or if the material is not suitable for use as a fuel.

Storage and consolidation treatment and bulking will be performed in the tanks by mixing together compatible materials from different containers or tanks. The resultant mix will then be stored until shipment off-site for reuse or disposal.

The type of wastes to be stored in the tanks are stainless steel compatible liquids which may be combustible, ignitable, chlorinated solvents, contaminated waste waters (hazardous by characteristics or by mixture rule), or other compatible materials. The operating temperature of the tanks is ambient, and the operating pressure is atmospheric. No reactive wastes will be stored in the tank farm.

All tanks will be closed-top which prevents wave, wind action, or precipitation-related overtopping from occurring. Level gauges and associated alarms will be provided on each tank, which will indicate the storage height of the materials in the tank. In order to prevent overfilling, tank levels will be checked prior to filling by the gauges provided and correlated with the amount to be pumped in from the bulk containers and bulk tankers. An operator trained in the operation is required to be present during unloading or loading of bulk shipments. Daily inspections of the fuel blending tanks will be conducted and any identified issues will be noted and addressed promptly.

2.3 PROPOSED FACILITY EXPANSION OPERATIONS – RCRA STORAGE

The Fernley Facility proposes to add additional RCRA storage at the Site. The Facility will submit an application to BSMM for the appropriate RCRA permit modification in accordance with 40 CFR 270.42 once the quantity of additional RCRA storage is determined.

2.3.1 Waste Characteristics

Wastes received and stored at the Site will be the same as wastes currently managed at the Fernley Facility. These include acids, alkalis, metal-bearing aqueous liquids and sludges, cyanides, batteries, and household hazardous wastes. All received wastes have a Total Organic Compound (TOC) content of less

than 10% by weight; however, after the expansion the Facility may receive waste with VOC content greater than 500 ppmw. The Fernley Facility will not accept any waste that is radioactive, explosive (other than consumer fireworks), infectious, or that contains PCB greater than 50 ppmw.

2.3.2 Process Description

Hazardous wastes are received in labeled containers. Containers are visually examined for structural integrity and leakage prior to acceptance and storage. The compatibility of waste is confirmed by the procedures described in the Facility's Waste Analysis Plan. After inspection, the Facility accepts approved wastes and transfers the containers into storage. Wastes are segregated into compatible storage containment areas, based on the wastes' primary United States Department of Transportation (U.S. DOT) hazard class. Any containers showing evidence of leakage or damage will be placed in salvage drums, processed immediately, or the waste contained therein will be transferred to a container in acceptable condition. The container storage areas are designed to facilitate transfer activities, inspection, and storage by providing adequate secondary containment, aisle spacing, and container stacking arrangements.

2.3.3 Inspections

Inspections of container storage area are performed daily as identified in Table 5-1.

It is the policy of the Facility to train personnel in proper container handling procedures. All affected employees involved in material and container handling are trained in proper handling precautions and procedures during their initial 40-hour HAZWOPER training and each year during the 8-hour HAZWOPER Refresher.

Daily inspections include:

- Sumps, secondary containment, and portable secondary containment pallets;
- Container storage areas, load/unload areas, treatment systems; and

- Containers (for leaks, spills, appropriate and visible labels, proper stacking arrangements, aisle spacing, and proper segregation of incompatible materials).

2.4 PROPOSED FACILITY EXPANSION OPERATIONS – UNIVERSAL WASTE LAMP TREATMENT UNIT

The Fernley Facility proposes to construct and operate a universal waste lamp treatment unit at the Site.

2.4.1 Design and Capacity

Lamps will be processed using a Balcan MP8000 or equivalent processing unit. The Balcan MP8000 is a Programmable Logic Controlled (PLC) fully enclosed electrically powered unit with a maximum capacity of 63,000 pounds per day (5,000 linear tubes per hour as well as other types of lamps). The MP8000 consists of three processing sections, an air filtration system, and a control cabinet.

2.4.2 Process Description

Intact straight fluorescent lamps are fed onto a conveyor that transports them into the first section of the Balcan MP8000 to be crushed. The first section of the Balcan MP8000 is maintained under a slight negative pressure to control fugitive emissions. Lamps already crushed and non-linear intact lamps can be fed through a multi-purpose rumbler to separate scrap metals before the second stage. In the second stage, air is drawn through two parallel rumblers to remove mercury-bearing phosphor powder. In the third stage, magnetic separation is used to separate the end caps and glass. Air from each stage is directed through a baghouse to separate and collect the phosphor powder contaminated with mercury and then directed through an activated carbon bed to remove residual mercury before being released to ambient air.

2.5 ECONOMIC BENEFITS OF EXPANSION

Expansion of the Fernley Facility will provide economic benefit to the northern Nevada region:

1. A cost-effective treatment option for local and regional businesses. A local hazardous waste storage and treatment facility with fuel blending capabilities will provide a more cost-effective treatment option for local and regional businesses. Currently, the Facility transports waste for fuel blending from the northern Nevada region via tractor trailers to the nearest Clean Earth facility in Texas, which is over 1,600 miles away. The new fuel blending operation will reduce shipping costs, including the cost of trucking and the use of diesel fuel in the trucks. Reduced shipping distances will lead to cost and energy savings, helping to lower costs for customers, and positively impacting both the environment and the local economy by reducing the overall environmental footprint.

2. Additional jobs. A second economic benefit is the creation of approximately 20 full-time jobs at a rate of $25.00 an hour for the operation of the Site expansion in addition to temporary jobs and local construction contracts for the construction of the expansion. The hiring process will help benefit the local community and economy of the City of Fernley.

3. Fee payment to BSMM. The Facility pays a fee to BSMM based on volume of quarterly operations. The most recent fee in the third quarter of 2025 was $8,600. It is expected that the quarterly fee will increase by two to three times due to the Fernley Facility expansion.

4. Development of land within the Community. Clean Earth plans to develop this property that would otherwise remain undeveloped within the Community due to the potential liability from the pre-existing chromium plume, which was present prior to Clean Earth's ownership of the Fernley Facility and the Site. Clean Earth paid a premium to purchase the property and plans to develop the property to expand Facility operations. Development associated with the expansion will help bring new jobs and business to the area and help promote the local economy.

2.6 ENVIRONMENTAL AND PUBLIC HEALTH BENEFITS OF EXPANSION

Expansion of the Fernley Facility will also result in benefits to the environment:

1. The management of a pre-existing chromium plume at the Facility that predates Clean Earth's ownership of the Facility. A chromium plume has been historically identified migrating southeast from the Facility towards the Site. Results from groundwater sampling indicate that chromium concentrations, which have been declining over time, have leveled off over the last few years. Continued monitoring is taking place to assess long-term trends. By expanding the Facility, Clean Earth can better manage, monitor, and mitigate the plume. Clean Earth will conduct Site operations in such a manner to prevent spills and releases that could contribute to the plume. The purchased property planned for the expansion is located in the direction of groundwater flow; Clean Earth has accepted the risk, responsibility, and liability of managing the plume.

2. The usage of blended fuels from the fuel blending unit by cement kiln facilities. Blended fuels will displace usage of coal in cement kiln operations and waste liquids that could not otherwise be treated for reuse at the Fernley Facility and would be landfilled. Expansion of the Fernley Facility will help decrease the dependence on coal. If the expansion is approved, the Facility estimates that fuel blending operations will displace 5.13 million pounds of coal (2,565 tons) on an annual basis.

3. The ability to treat fuel blending wastes locally. Currently, waste generated at various industrial facilities in the western United States is trucked from the Fernley Facility to Texas. Each of the 150 annual loads combust an estimated 333 gallons of diesel fuel per load. With the expansion of the Fernley Facility, the waste will be received at the Site, which is closer in proximity to where the waste is generated. This will significantly reduce shipping distances, resulting in an estimated reduction of 49,950 gallons of diesel fuel being used. Decreased diesel fuel usage will proportionally decrease the quantity of air emissions generated, including emissions of greenhouse gases.

3. VARIANCE REQUEST

3.1 DESCRIPTION OF THE VARIANCE REQUESTED

The proposed Project is to expand the Fernley Facility to include the adjacent 18.9-acre property at 2185 Newlands Drive East for the construction and operation of a fuel blending unit, a universal waste lamp treatment unit, and additional RCRA storage. No land disposal will take place at the Fernley Facility or at the Site. A Certificate of Designation Application for the property located at 2185 Newlands Drive East was submitted to the NDEP BSMM on September 23, 2024 (see Appendix C). The proposed Site did not satisfy all of the siting requirements per NAC 444.8456, and a Denial of Certificate of Designation Application letter was issued by BSMM on March 7, 2025 (see Appendix D). This application is being submitted to request a variance from the Siting requirements in NAC 444.8456 that were not satisfied, as listed in Table 3-1.

Table 3-1
Summary of Unsatisfied NAC 444.8456 Requirements

NAC Reference	Requirement	Reason for Unsatisfied Requirement
NAC 444.8456	*A stationary new or expanding facility for the management of hazardous waste must not be constructed within one mile of:*	
NAC 444.8456.1(a)(2)	An area zoned solely for residential use.	A residential neighborhood is located approximately 0.7-miles south of the Site.
NAC 444.8456.1(a)(4)	A wildlife management area.	The Fernley Wildlife Management Area is located approximately 0.5-miles southeast of the Site.
NAC 444.8456.1(a)(6)	An area where surface water or wetlands occur.	Freshwater forested/shrub wetlands are located approximately 0.5-miles southeast of the Site. Two freshwater ponds are located approximately 0.8-miles west and northeast of the Site.
NAC 444.8456.1(c)	A 100-year floodplain.	A Special Flood Hazard Areas, Zone A is located approximately 0.2-miles south of the Site. Note that the Site is not in the 100-year floodplain; therefore, this is not an unsatisfied requirement.
NAC 444.8456.1(d)	An area where the water table seasonally rises to within 150 feet of the surface of the ground.	Water levels at the Site range approximately 29 to 37 feet below ground surface.
NAC 444.8458.2(f)	Whether the proposed facility complies with the provisions of NAC 444.8456.	Requirements of NAC 444.8456.1(a)(2,4,6) and NAC 444.8456.1(d) are not satisfied as identified in this table.

3.2 REASONS FOR SEEKING THE VARIANCE

21EMN is submitting this Application for Variance to the Secretary of the Commission in accordance with the requirements listed in NAC 444.8472 in response to a Denial of Certificate of Designation Application letter issued by BSMM on March 7, 2025. 21EMN is requesting a variance from the requirements listed in the Table above in order to obtain authorization to move forward with the construction of the proposed

Site operations described in Sections 2.2 through 2.4 of this Application. As previously described, 21EMN has purchased the adjacent property for the purpose of expanding the Fernley Facility.

21EMN has reviewed NAC 444.8456 – Stationary new or expanding facility for management of hazardous waste: Restrictions on location; exempt facilities requirements and is requesting a variance from the requirements not met, as listed in the above table and described below.

- 21EMN is requesting a variance from the requirement that the Site be located outside of a one-mile radius of an area zoned solely for residential use. The proposed facility is approximately 0.7 miles from an area zoned for residential use.

- 21EMN is requesting a variance from the requirement that the Site be located outside of a one-mile radius of a wildlife management area and an area where surface water or wetlands occur. The Fernley Wildlife Management Area is located approximately 0.5 miles to the southeast of the Facility and there are several surface water and wetlands inside a one-mile radius of the proposed Site.

- The Site is located approximately 0.2 miles from a Special Flood Hazard Area Zone A but is not located in a 100-year floodplain. Therefore, 21EMN does not require a variance from the requirement that the Site be located outside of a 100-year floodplain per NAC 444.8456.1(c).

- Lastly, 21EMN is requesting a variance from the requirement that the Site should be located outside of a one-mile radius of an area where the water table seasonally rises to within 150 feet of the surface of the ground. The Site currently sits in an area where water levels range from 29 to 37 feet below ground surface.

4. FACILITY SITING DETAILS

As required by NAC 444.8472.1(b)(2), maps are provided with this Application for Variance showing the location of any area, structure, park, well, or hazard described in NAC 444.8456. Note that the Fernley Facility has been operating as a storage and treatment facility since 1986 and is well established in the community. Land use for the Facility and surrounding properties is permitted and zoned by the City of Fernley as Zone I, which includes Light and Heavy Industry. The zoning determination for industrial use has not changed since the permit was issued.

4.1 A DWELLING, SCHOOL, CHURCH, COMMUNITY CENTER, PUBLIC PARK, OR RESIDENTIAL USE AREAS

The Site is not located within a one-mile radius of any schools, churches, community centers, or parks based on review of the City of Fernley Street Map obtained from the City of Fernley; however, there are multiple schools, churches, and public parks located within a one to two-mile radius of the Site.

The area to the south of the Facility is mostly residential with various housing developments and subdivisions as noted in Table 1-1. A copy of the City of Fernley Street Map is included as Figure 4-1 and includes Site boundaries and a two-mile radius from the Site.

Impacts to nearby schools, churches, public parks, or residential areas is not anticipated due to the distance of the Site from the areas and the control, management, and mitigation techniques discussed in Sections 5 and 6 that will be in place at the proposed Site.

4.2 WILDLIFE MANAGEMENT AREAS

A review of the Nevada Department of Wildlife (NDOW) Management Area indicates that the Site is not located within a wildlife management area as shown in Figure 4-2. The nearest wildlife management area is the Fernley Wildlife Management Area, which is located approximately 0.5-miles southeast of the Fernley Facility.

Impacts to the nearby Wildlife Management Area are not anticipated due to the distance of the Site from the areas and the control, management, and mitigation techniques discussed in Sections 5 and 6 that will be put in place at the proposed Site.

4.3 WILDLIFE KEY HABITAT, THREATENED OR ENDANGERED SPECIES HABITAT

An official species list for the Site provided by the United States Fish and Wildlife Service (see Appendix A) did not identify any critical habitats (Key, Threatened, or Endangered) within two miles of the Site. Although no critical habitat was identified, the report noted the possibility that migratory birds may be located in the vicinity of the Site.

There is a minimal risk that the Site would impact wildlife that potentially resides around the Facility. The Site will be surrounded by a chain-link fence to create a barrier to wildlife entering the Facility. The Site will implement control, management, and mitigation techniques discussed in Sections 5 and 6 to prevent releases to the environment that could impact wildlife.

4.4 AN AREA WHERE SURFACE WATER OR WETLANDS OCCUR

The U.S. Fish and Wildlife Services National Wetlands Inventory (NWI) map indicates some freshwater ponds, freshwater forested/shrub wetlands and freshwater emergent wetlands located within a 2-mile radius of the Site, as indicated in Figure 4-3. Freshwater forested/shrub wetlands and freshwater emergent wetlands are located approximately 0.5-miles southeast of the Site. The two freshwater ponds are located approximately 0.8-miles west and northeast of the Site.

The risk that the Site will impact nearby surface water and wetlands is minimal due to the relatively flat topography, distance to the surface water and wetlands, and control, management, and mitigation techniques discussed in Sections 5 and 6 that will be in place at the proposed Site.

4.5 NATURAL OR MAN-MADE GEOLOGIC HAZARDS

A review of the Quaternary Fault Map indicates there is no evidence of Holocene displacement within two miles of the Site that would create a geological hazard. Figure 4-4 shows the location of Holocene displacements in Lyon and Storey Counties and the location of the Fernley Facility. No man-made geological hazards are known to be located within two miles of the Site.

Per U.S. EPA guidance RO13505, the pre-existing chromium plume would not be considered 'an artificially created geological hazard'. 21EMN will design storage areas located above the chromium plume with operational controls sufficient to demonstrate protection of human health and the environment.

4.6 PUBLIC DRINKING WATER WELLS

The Fernley aquifer is a primary-source aquifer, serving as the sole source of drinking water for the nearby population. Wells are known to exist in the area that draw from the perched groundwater.[1] Localized perched groundwater zones exist above less permeable materials and are known to be utilized by some wells in the Fernley area.[2] The groundwater gradient in the immediate vicinity of the Site is anticipated to be toward the northeast while the gradient near the center of the City of Fernley is regarded as toward the northwest. The average total annual precipitation for Reno, the closest major city, between 2007 and 2019 was 7.40-inches. The average total annual precipitation for Fernley is approximately 4.7 inches.[3]

Impacts to nearby public drinking water wells are not anticipated due to the relatively flat topography of the Site, distance from the Site to the floodplains, and the control, management, and mitigation techniques discussed in Sections 5 and 6 that will be in place at the proposed Site.

[1] Kramer, Kurt. Utilities Manager, Fernley Utilities District, letter to L.H. Dodigon, NDEP, re: need for wellhead protection program, May 17, 1991.

[2] Geoffroy, Michael A., Technical Director, Eticam, letter to Joe Levak, NDEP, re: groundwater monitoring, March 26, 1987.

[3] Western Regional Climate Center (WRCC), *Fernley, Nevada Climate Summary*, accessed September 2025.

4.7 HISTORICAL OR ARCHEOLOGICAL SITES

A review of information from the Nevada State Historic Preservation Office (NSHPO) indicates that the Site is not located within an area identified by the Office as a historical or archeological site listed in the State Register of Historic Places or National Register of Historic Places. NSHPO information is included as Appendix B.

4.8 FLOODPLAIN REQUIREMENTS

Review of Flood Insurance Rate Maps for the Site vicinity (see Figure 4-5, FEMA Floodplain Map) identified Special Flood Hazard Areas, Zone A approximately 0.2-miles south of the Site. Special Flood Hazard Areas, Zone A have no base flood elevation determined but have a one-percent annual chance of flooding. Note, however, that per NAC 444.8456.1(c), the Site is not located in a 100-year floodplain.

5. ENVIRONMENTAL EFFECTS UNDER THE WORST EXPECTED ADVERSE CONDITIONS IF VARIANCE IS GRANTED

If the variance were to be granted, the environmental effects under the worst expected adverse conditions include the possibility of spills, discharges, fires, explosions, and natural disasters.

5.1 SPILLS, LEAKS, AND DISCHARGES UNDER THE WORST EXPECTED ADVERSE CONDITIONS

The risk that a spill or discharge event would result in a release to the environment is minimal. The fuel blending tanks will be equipped with adequate secondary containment to contain the entire contents of the largest tank with additional capacity for precipitation to prevent any material leaks from reaching the environment. The piping that transfers the waste from the tanks to the railcars will also be equipped with secondary containment. The railcar unloading and loading area will not be equipped with secondary containment to hold the entire contents of a railcar; however, the most typical failure mode would be spills or leaks during loading and unloading and not a catastrophic release of the entire contents of a railcar. The Facility will implement Railcar Loading and Unloading Standard Operating Procedures (SOP) that all employees will be trained to follow during loading and unloading activities (see Appendix F). Railcar Loading and Unloading SOP, which have been developed for other Clean Earth facilities with similar railcar operations, include specific procedures to follow prior to loading, including confirming sufficient capacity, checking fittings, valves, gaskets, and fasteners, and checking for unidentified residue in the tank. Employees are present during all transfer activities and are trained in spill response. Spill response kits will be available nearby and adequately stocked. The Site will notify the Director of any reportable spills in accordance with NDEP requirements and timelines.

In addition to the comprehensive Rail Loading and Unloading SOP, the Facility will implement proactive procedures to prevent spills and mitigate operational risks during day-to-day operations at the Facility, including:

- Preventative maintenance and inspection programs: Inspections of transfer areas, unloading equipment, and transfer lines are conducted prior to transfer of any materials to identify wear,

corrosion, or potential failure points before they result in spills. Preventive maintenance schedules ensure all components are in safe working order. Pre-transfer safety check lists are performed and documented to ensure all connections are secure, valves are properly aligned, and the area is clear of hazardous material.

- Secondary containment and spill contingency infrastructure: The rail spur area will be equipped with spill response equipment such as absorbent booms and spill pads for rapid response. The tanks in the tank farm will be located in secondary containment with capacity to contain the entire contents of the tank. Tank farm transfer operations will be conducted in secondary containment areas.

- Employee Training: Operational personnel receive recurrent training in spill prevention, operational techniques, emergency shutdown procedures, early detection and environmental compliance requirements.

- Monitoring: the Facility uses a combination of human oversight and where applicable, automated monitoring systems such as pressure sensors leak detection to quickly identify anomalies and mitigate risk. The Facility inspection schedule is identified in Table 5-1.

Table 5-1
Inspection Schedule

Equipment	Inspection Schedule
Security Equipment	Monthly
Sumps, secondary containment, portable secondary containment pallets	Daily
Container storage areas, load/unload areas, treatment systems	Daily
Containers (for leaks, spills, appropriate and visible labels, proper stacking arrangements, aisle spacing, and proper segregation of incompatible materials).	Daily

Equipment	Inspection Schedule
Tank systems (bulk receiving areas, secondary containment structures, tank system piping and controls)	Daily
Tank level indicators	Daily

These combined practices reflect the commitment to environmental, safety, and operations responsibility throughout all operations.

Contamination of soil and groundwater is a potential environmental impact that could occur due to a worst expected adverse condition. The likelihood that soil, surface waters, or the water table would be impacted by spills, leaks, and discharges is minimal due to the secondary containment provided for the tanks and impervious barriers that prevent liquids from leaving the facility in any direction, including through soil. Except as previously noted for railcars, all waste management activities at the Site will be conducted on paved or concrete areas with adequate secondary containment designed to contain any spills and to prevent run-on and run-off of stormwater. In the event of a release to the environment, the Site will initiate measures to control and prevent the migration of hazardous materials. All employees receive training in containment and control procedures as required in the Fernley Facility's spill response plan. In addition, procedures to contain releases of hazardous materials are described in the RCRA Contingency Plan (see Appendix E) developed for the Fernley Facility.

Clean-up of released hazardous waste and associated contaminated materials will be initiated once containment and control of the substance have been achieved. Released hazardous wastes and contaminated media will be treated as hazardous waste. Contaminated personal protective equipment (PPE) and other equipment will be disposed of as hazardous wastes or decontaminated and reused. Monitoring and sampling will occur if required.

5.2 FIRES AND EXPLOSIONS UNDER THE WORST EXPECTED ADVERSE CONDITIONS

There is potential for fires and explosions at the Site. The Site will be equipped with a fire suppressant system and all tank systems at the Site will meet the National Fire Protection Association (NFPA)

requirements. Fire-fighting foam used at the Facility will not contain Perfluoroalkyl and polyfluoroalkyl (PFAS) substances. Facility personnel are trained in the fuel blending operations they will be performing. Clean Earth has experience in managing fuel blending tanks at different facilities across the United States. To date, there have been no occurrences of fires in a fuel blending tank area at Clean Earth facilities. In order to reduce possible impacts of a fire, protective distances will be maintained between waste management areas and public roadways, streets, alleys, and adjoining property. All container storage areas will be located at least 50 feet from the property line. Daily inspections of tanks, secondary containment, emergency equipment, and alarms are performed by the Facility to prevent failure. These control and management techniques reduce the likelihood that a fire or explosion would result in a release to the environment. In the event of a fire, the Site will implement the Fernley Facility's RCRA Contingency Plan. The Facility will collect fire-fighting water and test it once the fire has been controlled. Depending on the results of analysis, the water will either be sent to the stormwater evaporation pond to evaporate or collected and shipped off site for treatment and disposal.

Damage to local flora and fauna is a possible impact under the worst expected adverse conditions from fires and explosions. A six-foot tall chain-link fence exists around the existing Facility to prevent wildlife from entering the Facility. A similar six-foot tall chain-link fence will be implemented at the Site. In addition, a clean agent PFAS-free fire suppression system will be installed to limit the spread of a fire and protect vegetation from additional contamination. Finally, vegetation is removed from the area surrounding the Site at least semi-annually, and quarterly in heavy growth years, in order to limit the potential for the spread of fire.

5.3 NATURAL DISASTERS

A release, discharge, fire, or explosion may be initiated by a natural disaster such as an earthquake, severe thunderstorm, flooding, high wind velocities, or lighting. The tanks will be grounded to ensure protection from lightning strikes and the risk of impacts from severe thunderstorms, including flooding, is minimal.

The potential impacts under the worst expected adverse conditions due to an earthquake include the potential of a rupture of a tank and/or secondary containment. All tank systems will be designed to meet

the appropriate Seismic Design Category (SDC) and applicable state and local regulations. The SDC system classifies structures based on a combination of earthquake risk factors. The higher the category, the more robust the seismic-resistant design must be. Structures in western Nevada typically fall into Seismic Design Categories D, E, or F, which require specific design and construction measures to ensure stability. In the event of a tank rupture or catastrophic spill that breaches secondary containment, the Site would utilize earth moving equipment to create a berm to prevent liquids from traveling to surface waters and would remove any contaminated soil. The earth-moving equipment needed to contain a catastrophic spill is already located on site at the existing Facility. Clean Earth has soil and dredge operations with vast experience in these types of activities and could shift resources immediately to minimize any possible environmental impacts. Additional major equipment needed for cleanup procedures will be able to arrive on-site from the soil and dredge operations within one week.

The risk of wildfires impacting the Site is a possibility under the worst expected adverse conditions. All tank systems at the Site will meet the NFPA requirements and the Site will be equipped with a PFAS-free fire suppressant system. In the event of wildfire, the Site will implement the Fernley Facility's RCRA Contingency Plan. Clean-up of hazardous waste and associated contaminated materials released during a wildfire will be initiated once it is safe to do so. Released hazardous wastes and contaminated media will be treated as hazardous waste. Contaminated PPE and other equipment will be disposed of as hazardous wastes or decontaminated and reused. Monitoring and sampling will occur if required.

Federal Emergency Management Agency (FEMA) flood maps indicate the Site is located in unshaded Zone X, which indicates an area with minimal flood hazard that is situated above the 500-year flood level and protected by levees from 100-year floods. Therefore, flooding poses a minimal risk to the Site. The existing Facility is equipped with sumps to contain precipitation from a 25-year 24-hour storm event. Collected run-off from all other active areas of the Facility drains to a solar evaporation pond. Clean Earth plans to construct an additional evaporation pond or increase the size of the existing pond to withstand a 100-year flood event to account for the expansion of the Facility. Run-on from non-process areas to hazardous waste management areas is prevented by secondary containment system curbs and the elevation (above grade level) of the concrete pads beneath each hazardous waste handling area. Stormwater in waste

management areas is prevented from running off to non-process areas. The same stormwater management practices will be put in place at the new Site to limit the possible impacts from significant rainfall events and flooding.

6. EFFECTS ON THE LOCAL ENVIRONMENT AND PUBLIC HEALTH UNDER THE WORST EXPECTED ADVERSE CONDITIONS IF GRANTED VARIANCE

If the variance were to be granted, effects on the local environment and public health under the worst expected conditions could include soil or groundwater contamination, destruction of flora and fauna, excessive noise, spills, discharges, fires, and explosions.

6.1 SOIL OR GROUNDWATER CONTAMINATION UNDER THE WORST EXPECTED ADVERSE CONDITIONS

Under worse-case conditions at the Site, the risk of groundwater contamination impacting the local environment or nearby residential neighborhood is minimal. Except as previously noted for railcars, all waste management activities at the Site expansion will be conducted on paved or concrete containment areas designed to contain spills and to prevent run-on and run-off of stormwater. Contact and non-contact stormwater falling on impervious surfaces will drain to solar evaporation ponds or will be collected in blind sumps. Residual sludges from evaporation ponds will be treated as hazardous waste. Clean Earth plans to construct an additional evaporation pond or increase the size of the existing pond to withstand a 100-year flood event to account for the expansion of the Facility.

The expansion will assist in the management of the pre-existing chromium plume. Results from groundwater sampling indicate that chromium concentrations, which have been declining over time, have leveled off over the last few years. Continued monitoring is taking place to assess long-term trends. By expanding the Facility, Clean Earth can better manage, monitor, and mitigate the plume. Clean Earth will operate the new Site in such a manner to prevent spills and releases that could contribute to the plume. The purchased property is located in the direction of the groundwater flow, so Clean Earth has accepted the risk, responsibility, and liability of managing the plume.

Specific operating procedures will be enacted to prevent overfilling of tanks and spillage during transfers to and from fuel blending tanks. Fuel blending tanks will be equipped with automated controls to prevent tank overfilling. In the event of a release of hazardous materials to the environment, the Fernley Facility

RCRA Contingency Plan will be implemented, and notifications, mitigation techniques, evacuations, and control and clean-up procedures will be executed. Employees are present during all transfer activities and are trained in spill response. Spill response kits will be available nearby and adequately stocked. Under the worst expected adverse conditions, a spill could breach secondary containment and reach the soil or groundwater. Clean Earth will prioritize clean up procedures by removing any contaminated soil to minimize long term effects. Clean Earth has soil and dredge operations with vast experience in these types of activities and could shift resources immediately to minimize any long-term effects. The risk that contaminated liquid would travel 0.5-miles southeast to the nearest wetlands or 0.8-miles west to nearest pond as discussed in Section 4.4 is considered to be minimal due to the immediate mitigation techniques described above that will be put in place. Employees are trained in safe work practices and will be equipped with proper PPE for job duties and any clean up or mitigation activities that would occur.

6.2 EFFECTS ON FLORA AND FAUNA

Waste management practices at the Site will be handled in a way to prevent destruction or impairment to flora and fauna. A six-foot chain-link fence will surround the Site expansion and create a barrier to wildlife entering the Facility. Except as previously noted for railcars, all waste management activities will be conducted on paved or concrete portions of the Site. Run-on and runoff from the Site will be prevented by berms. Stormwater that contacts industrial portions of the property will drain to solar evaporation ponds or will be collected in blind sumps. In the event of a release of hazardous materials to the environment, the Fernley Facility RCRA Contingency Plan will be implemented to control and mitigate any release. Impacted areas will be monitored or sampled after a release if contamination occurs.

6.3 EXCESSIVE NOISE

The generation of excessive noise is not anticipated at the proposed Site except possibly during Site expansion construction activities. Construction noise is anticipated to be typical for a construction site. Operation of the Fernley Facility generates routine noise associated with equipment operation (primarily during regular working hours) and truck traffic (primarily during peak traffic periods on weekdays, approximately 7:00 a.m. to 10:00 a.m. and 2:30 p.m. to 4:30 p.m.). Short-term noise may also be created

by the activation of emergency alarms. These impacts will be confined largely to on-site areas and are not expected to be excessive relative to existing background noise levels.

6.4 SPILLS AND DISCHARGES

The risk of a spill or discharge event resulting in a release to the environment is minimal. In the event of a spill or discharge, the Fernley Facility RCRA Contingency Plan will be implemented and notifications, mitigation techniques, evacuations, control and clean-up procedures will be executed. Impacted areas will be monitored or sampled after a release if contamination occurs. The fuel blending tanks will be equipped with adequate secondary containment to contain the entire contents of the largest tank with additional capacity for precipitation to prevent any material leaks from reaching the environment. The piping that transfers the waste from the tanks to the railcars will also be equipped with secondary containment. The railcar loading and unloading area will not be equipped with secondary containment to hold the entire contents of a railcar; however, the most typical failure mode would be spills or leaks during loading and unloading and not a catastrophic release of the entire contents of a railcar. The Facility will implement Railcar Loading and Unloading SOP that all employees will be trained to follow during loading and unloading activities. Railcar Loading and Unloading SOP, which have been developed for other Clean Earth facilities with similar railcar operations, includes specific procedures to follow prior to loading, including confirming sufficient capacity, checking fittings, values, gaskets, and fasteners, and checking for unidentified residue in the tank. Employees are present during all transfer activities and are trained in spill response. Spill response kits will be available nearby and adequately stocked. The Site will notify the Director of any reportable spills in accordance with NDEP requirements and timelines.

Clean-up of released hazardous waste and associated contaminated materials will be initiated once containment and control of the substance have been achieved. Released hazardous wastes and contaminated media will be treated as hazardous waste. Contaminated PPE and other equipment will be disposed of as hazardous wastes or decontaminated and reused. Monitoring and sampling will occur if needed.

6.5 FIRES AND EXPLOSIONS

The risk of fires and explosions at the Site is minimal. The Site will be equipped with a clean, PFAS-free fire suppressant system and all tank systems at the Site will meet the National Fire Protection Association (NFPA) requirements. Facility personnel are trained in the fuel blending operations they will be performing. Clean Earth has experience in managing fuel blending tanks at different facilities across the United States. To date, there have been no occurrences of fires in a fuel blending tank area at Clean Earth facilities. However, in the event of a fire, the Site will implement the Fernley Facility's RCRA Contingency Plan. In order to reduce possible impacts, protective distances will be maintained between waste management areas and public roadways, streets, alleys, and adjoining property. All container storage areas will be located at least 50 feet from the property line. Daily inspections of tanks, secondary containment, emergency equipment, and alarms are performed by the Facility to prevent failure. These control and management techniques reduce the likelihood that a fire or explosion would result in a release to the environment.

Under the worst expected adverse conditions, a fire has the potential to cause toxic fumes in the area. The residential area is more than 0.6 miles from the outer perimeter of the existing facility and 0.7 miles from the proposed expansion perimeter. The residential community is located with immediate access to US Highway 50 Alternate, which is a major thoroughfare providing adequate access to evacuate if needed. Due to the distance of the residential area from the Site, the risk of toxic fumes or the fire spreading to the residential areas is minimal. Additionally, the Facility will collect and analyze fire-fighting water once the fire has been controlled. Depending on the analytical results, the water will either be sent to the stormwater evaporation pond to evaporate or collected and shipped off site for treatment and disposal.

6.6 HARDSHIP TO THE APPLICANT

In the event 21EMN is unable to use the property at 2185 Newlands Drive East as intended, the Applicant would anticipate significant monetary hardships from the costs associated to purchase the property and the inability to use it for the intended purpose. Significant monetary hardships to 21EMN would include:

- Purchase Price: The property was purchased for $6 million dollars. The Site is the only available adjacent property onto which the Fernley Facility could expand and therefore holds great significance for 21EMN. If 21EMN cannot use the property as intended and decides to sell it, the sale price will likely be lower than the purchase price, as the property does not hold as much significance for other companies.
- Revenue: The planned revenue is $7.7 million annually if 21EMN is able to utilize the Site as intended. However, if 21EMN is unable to utilize the Site as intended, a significant revenue source will not be realized that would impact the long-term economic viability of the Fernley Facility.

- Community economic benefit: If approved, 21EMN plans to hire about 20 new full-time employees at $25.00 an hour at the beginning of the Project and hire new employees each year thereafter, which will positively impact unemployment rates in Lyon County. Additional indirect impacts on employment at the Fernley Facility and Site is expected for suppliers and contractors that serve the Fernley Facility. More employees equates to more spending and more sales tax revenue received by the State of Nevada and City of Fernley.

6.7 ECONOMIC BENEFITS OF EXPANSION

Expansion of the Fernley Facility will provide economic benefit to the northern Nevada region. Proceeding with the planned Site expansion will increase the capacity at the Fernley Facility with the addition of a fuel blending unit, universal waste lamp treatment unit, and RCRA storage that will address the increased demand for hazardous waste storage and treatment in the northern Nevada region. Additional economic benefits include:

1. A cost-effective treatment option for local and regional businesses. A local hazardous waste storage and treatment facility with fuel blending capabilities will provide a more cost-effective treatment option for local and regional businesses. Currently, the Facility transports waste for fuel blending from the northern Nevada region via tractor trailers to the nearest Clean Earth facility in Texas, which is over 1,600 miles away. The new fuel blending operation will reduce shipping costs,

including the cost of trucking and the use of diesel fuel in the trucks. Reduced shipping distances will lead to cost and energy savings, helping to lower costs for customers, and positively impacting both the environment and the local economy by reducing the overall environmental footprint.

2. Additional jobs. A second economic benefit is the creation of approximately 20 full-time jobs at a rate of $25.00 an hour for the operation of the Site expansion in addition to temporary jobs and local construction contracts for the construction of the expansion. The hiring process will help benefit the local community and economy of the City of Fernley.

3. Fee payment to BSMM. The Facility pays a fee to BSMM based on volume of quarterly operations. The most recent fee in the third quarter of 2025 was $8,600. It is expected that the quarterly fee will increase by two to three times due to the Fernley Facility expansion.

4. Development of land within the Community. Clean Earth plans to develop this property that would otherwise remain undeveloped within the Community due to the potential liability from the pre-existing chromium plume, which was present prior to Clean Earth's ownership of the Fernley Facility and the Site. Clean Earth paid a premium to purchase the property and plans to develop the property to expand Facility operations. Development associated with the expansion will help bring new jobs and business to the area and help promote the local economy.

6.8 ENVIRONMENTAL AND PUBLIC HEALTH BENEFITS OF EXPANSION

Expansion of the Fernley Facility will also result in benefits to the environment:

1. The management of a pre-existing chromium plume at the Facility that predates Clean Earth's ownership of the Facility. A chromium plume has been historically identified migrating southeast from the Facility towards the Site. Results from groundwater sampling indicate that chromium concentrations, which have been declining over time, have leveled off over the last few years. Continued monitoring is taking place to assess long-term trends. By expanding the Facility, Clean Earth can better manage, monitor, and mitigate the plume. Clean Earth will conduct Site

operations in such a manner to prevent spills and releases that could contribute to the plume. The purchased property planned for the expansion is located in the direction of groundwater flow; Clean Earth has accepted the risk, responsibility, and liability of managing the plume.

2. The usage of blended fuels from the fuel blending unit by cement kiln facilities. Blended fuels will displace usage of coal in cement kiln operations and waste liquids that could not otherwise be treated for reuse at the Fernley Facility and would be landfilled. Expansion of the Fernley Facility will help decrease the dependence on coal. If the expansion is approved, the Facility estimates that fuel blending operations will displace 5.13 million pounds of coal (2,565 tons) on an annual basis.

3. The ability to treat fuel blending wastes locally. Currently, waste generated at various industrial facilities in the western United States is trucked from the Fernley Facility to Texas. Each of the 150 annual loads combust an estimated 333 gallons of diesel fuel per load. With the expansion of the Fernley Facility, the waste will be received at the Site, which is closer in proximity to where the waste is generated. This will significantly reduce shipping distances, resulting in an estimated reduction of 49,950 gallons of diesel fuel being used. Decreased diesel fuel usage will proportionally decrease the quantity of air emissions generated, including emissions of greenhouse gases.

7. PRIOR JUDICIAL OR ADMINISTRATIVE PROCEEDING AFFECTING THE FACILITY

Clean Earth is committed to accelerating the transition to a circular economy by treating, recycling, and repurposing industrial byproducts and specialty wastes across the country. Clean Earth took ownership of the existing Fernley Facility beginning in 2020. Since taking ownership, Clean Earth has conducted operations with the goal to have a positive impact on human health, the environment, and the local economy. The Community of Fernley and the State of Nevada can expect the same due diligence, compliance, and cooperation at the Site that Clean Earth has demonstrated at the existing Facility.

21EMN's compliance history is listed in the attached U.S. EPA's RCRAInfo Facility summary report as shown in Appendix G. There is one hazardous waste cleanup item listed that corresponds to the pre-existing chromium plume that is actively being managed.

Additionally, a search of the U.S. EPA's Enforcement and Compliance History Online (ECHO) database identified minor violations related to manifests/records/reporting, permit conditions and applications, tank system standards, and releases from Solid Waste Management Units (SWMUs). See Appendix H for the Detailed Facility Report.

The Facility currently has two open enforcement cases with NDEP that are working towards resolution, both with the Bureau of Air Pollution Control (BAPC) for the Facility's Air Quality Permit. Note that the Facility has not contested either enforcement case; therefore, these cases are not considered to be judicial or administrative proceedings.

- The first notice of alleged violations (NOAV) 3218 is for failure to maintain air pollution control equipment. On July 18 and 19, 2023, NDEP staff were on-site during scheduled stack testing and observed smoke with an opacity between 15-100% and black solids. The system was immediately shut down; therefore, a formal Method 9 Visible Opacity Observation (OBS) was not conducted.

NDEP issued a formal warning for the incident. The Facility has requested to pursue a Supplemental Environmental Project (SEP) for this open NOAV.

- The second open NOAV 3168 occurred due to a failed source test and resulted in a total penalty of $38,400 for NO_X and VOC emissions exceedances. System 01 (Liquid Treatment) failed to meet the NO_X emissions limit during three separate tests in 2023 and System 02B (Organic Chemical Consolidation) failed to meet the VOC permitted emissions limit during one test in 2023. An application was submitted to and approved by NDEP for increased NO_x and VOC emissions limits to reflect maximum expected emissions rates during operation. The Facility has requested to pursue a Supplemental Environmental Project (SEP) for this open NOAV.

Prior to Clean Earth ownership of the existing Facility beginning in 2020, there were three administrative proceedings that occurred at the Facility.

- On February 9, 2004, a follow-up inspection occurred following a steam release incident that took place on January 13, 2004. The corresponding Notice of Violations (NOVs) were resolved in a Finding of Alleged Violation and Order.

- On March 6, 2005, a 6,000-gallon spill of mixed acids occurred from a rail car in Salt Lake City, Utah. The Department of Justice (DOJ) issued a subpoena on April 13, 2005, and the Federal Railroad Administration (FRA) issued various penalties to the Facility.

- NDEP conducted an inspection at the Facility on March 24, 2011 that resulted in a final order with a penalty of $108,475.

Finally, under previous ownership, the North Lyon County Fire Protection District issued a Stop Work Order to the Facility on July 22, 2013 due to repeated fires resulting from reactions of chlorine oxidizers stored in uncontrolled manner. Clean Earth now stores oxidizers in temperature-controlled oxidizer lockers and has eliminated the occurrence of fires as a result.

FIGURES

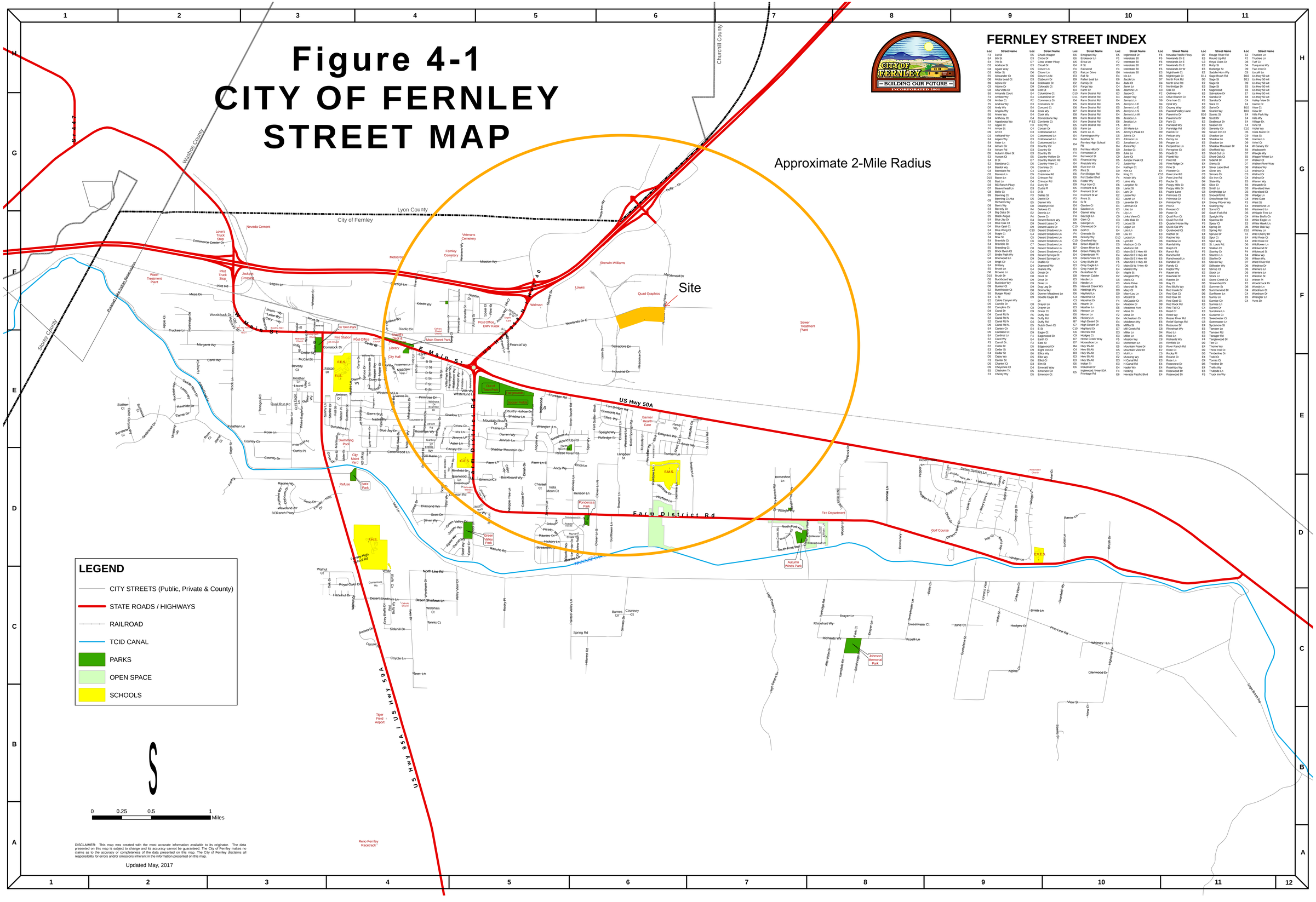
Figure 4-1
CITY OF FERNLEY
STREET MAP

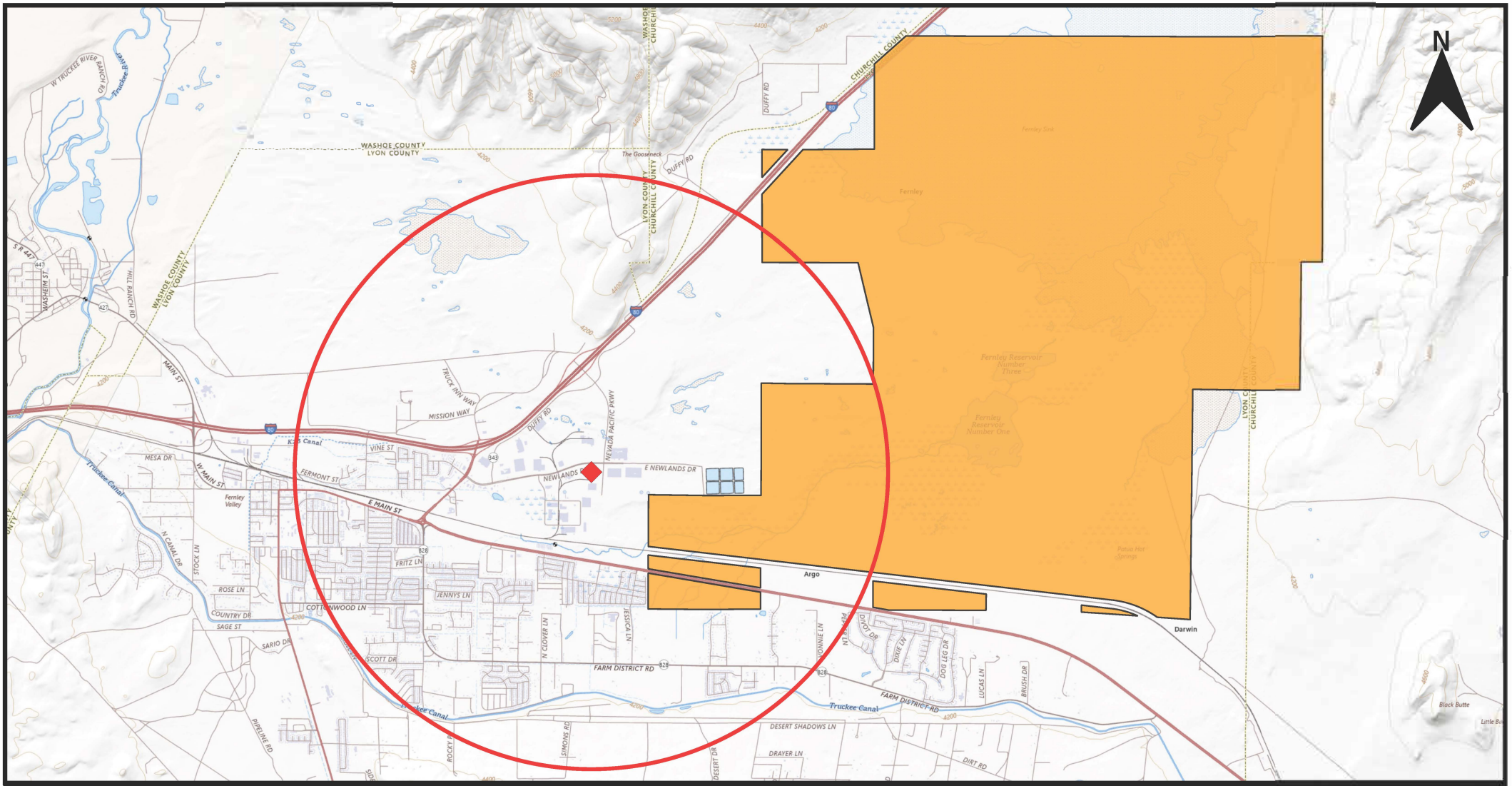
Approximate 2-Mile Radius

Site

FERNLEY STREET INDEX

Loc	Street Name
F2	1st St
E4	6th St
E4	7th St
D3	Addison St
D4	Agate Way
D3	Alder St
E5	Alexander Ct
D8	Alotta Lead Ct
B9	Alpine Dr
C9	Alpine Dr
D6	Amanda Ct
E6	Amanda Court
F4	Ambee Wy
D9	Amber Ct
F5	Andrea Wy
D5	Andy Wy
E5	Angela Wy
E6	Annie Wy
D4	Anthony Ct
E4	Appaloosa Wy
F2	Apple Ct
F4	Arch St
D9	Ash Ct
E4	Aspenwood Wy
E4	Aspen Wy
E4	Aster Ln
E4	Atrium Ct
E4	Atrium Rd
D5	Autumn Glen St
E3	Avocet Ct
E4	B St
E2	Bandana Ct
E4	Bandit Wy
C8	Barndale Rd
D4	Baron Ln
D10	Baron Ln
D5	Bart Ln
D3	BC Ranch Pkwy
D7	Beaverhead Ln
C8	Bello Ct
B9	Benning Ct
C8	Benning Ct Aka
	Richards Wy
D9	Ben Hur Wy
E3	Beverly Ct
E4	Big Horn Ct
E5	Black Angus
E4	Blue Jay Dr
C3	Blue Oak Ct
D4	Blue Opal Ct
E4	Blue Wing Ct
D9	Bogie Ct
F4	Bow St
E4	Bramble Ct
E4	Bramble Dr
E5	Branding Ct
E5	Brick Oven Ct
D7	Bridle Path Wy
D7	Bridle Trail Ct
D4	Brigi Ct
E4	Brittany
E5	Brook Ln
D6	Browne Ln
D10	Brush Dr
D5	Buckboard Wy
E2	Buckskin Wy
D9	Bunker Ct
E2	Burkhouse Ct
E6	Burger Road
E3	Cable Ct
E3	Cable Canyon Wy
D5	Camille Dr
E6	Campfire Ct
D4	Canal Dr
D4	Canal Rd N
E2	Canal Rd N
E4	Canal Rd N
D6	Canal Rd N
E4	Canary Ct
D5	Candace Ct
E4	Cardinal Ln
E2	Carol Wy
E3	Carter Ct
E2	Cattle Dr
E3	Cedar St
E4	Cedar St
D5	Cejay Wy
E3	Center St
D5	Chantel Ct
D9	Cheyenne Ct
E5	Chisholm Tr
F3	Christy Wy
E5	Chuck Wagon
D3	Circle Dr
D7	Clear Water Pkwy
E3	Cloud Dr
D5	Clover Ln
D6	Clover Ln
D6	Clover Ln N
D3	Clydesun Dr
D9	Coldwater Dr
D9	Colorado Ct
E4	Colt Ct
D10	Columbine Ct
E4	Columbine Dr
F2	Commerce Dr
E3	Comstock Dr
E4	Concord Ct
D4	Cook Wy
E4	Cook Wy
C4	Cornerstone Wy
F E2	Cornerite Ct
F3	Cory Wy
C4	Corsair Dr
D3	Cottonwood Ln
D5	Cottonwood Ln
E3	Cottonwood Ln
E4	Cottonwood Ln
E3	Country Ct
D3	Country Dr
E3	Country Dr
E5	Country Hollow Dr
D7	Country Ranch Rd
D5	Country View Ct
D5	Courtney Ct
C4	Coyote Ln
C4	Crimson Rd
D6	Crimson Rd
D4	Crimson Rd
D4	Curry Dr
D3	Curtis Pl
E4	D St
F3	Dallas St
D5	Daniel Dr
E5	Darren Wy
D5	Deadbye Kid
F4	Delores Ct
E4	Dennis Ln
F4	Derek Ct
D4	Desert Breeze Wy
D8	Desert Lakes Dr
C4	Desert Shadows Ln
C5	Desert Shadows Ln
C5	Desert Shadows Ln
C6	Desert Shadows Ln
C7	Desert Shadows Ln
C8	Desert Shadows Ln
D6	Desert Shadows Ln
D9	Desert Springs Ct
D9	Desert Springs Ln
E4	Diablo Ct
D4	Diamond Wy
E4	Dianne Wy
D5	Dinah Dr
D8	Dixie Dr
D9	Divot Dr
D9	Dixie Ln
D9	Dog Leg Dr
D9	Donna Wy
D6	Donner Meadows Ln
D9	Double Eagle Ct
C3	Dr
C8	Drayer Ln
D5	Drayer Ln
D9	Driver Ct
F5	Duffy Rd
F6	Duffy Rd
D5	Duffy Rd
E5	Dutch Oven Ct
E4	E St
D9	Eagle Ct
D4	Eaglewood Dr
E4	Earth Ct
E4	Earth Dr
D5	Edgewood Dr
D9	Eight Iron Ct
E6	Elice Wy
D5	Ellie Wy
E6	Elliot Ct
D3	Elm St
D4	Emerald Way
D5	Emerson Cir
D5	Emerson Ct
E6	Emigrant Wy
E5	Endeavor Ln
E6	Erica Ln
E4	F St
D4	Fairwood
E3	Falcon Drive
E4	Fall St
D9	Fallen Leaf Ln
D3	Family Ct
E4	Fargo Wy
E4	Farm Ln
D10	Farm District Rd
D11	Farm District Rd
E4	Farm District Rd
D5	Farm District Rd
D6	Farm District Rd
D7	Farm District Rd
D8	Farm District Rd
D9	Farm District Rd
E4	Farm District Rd
E5	Farm District Rd
F5	Farm Ln
E5	Farm Ln
D5	Farmhouse Wy
E4	Feather St
D4	Fernley High School Rd
D3	Fernley Hills Dr
F4	Fernwood Dr
E5	Fernwood St
E4	Firestone Wy
E5	Fire Iron Ct
F5	Flint Dr
E4	Flume Bridge Rd
E6	Fort Sutter Blvd
E6	Foster Wy
E5	Four Iron Ct
E5	Fremont St E
E4	Fremont St W
F4	Fremont St W
F3	Front St
E4	G St
E4	Garden Ct
E4	Gardner Ln
E4	Garland Wy
C10	Gate Dr
E3	Gay Ln
C10	Gay Ln
C9	Gustafson St
D9	Hannah Calder
E4	Hardie Ln
E4	Hardie Ln
D5	Harvest Creek Wy
E6	Hastings Wy
D5	Hayfield Ln
D5	Hayfield Ln
C3	Hazelnut Dr
D5	Hearth Dr
E3	Heather Ln
D5	Henson Ln
E6	Herron Ln
D5	Hickory Ln
B7	High Desert Dr
D5	High Desert Dr
C6	Highland Dr
C6	Hillcrest Rd
D9	Hodges Ct
D7	Horse Creek Way
D5	Horseshoe Ln
B4	Hwy 95 Alt
C4	Hwy 95 Alt
D3	Hwy 95 Alt
E3	Hwy 95 Alt
E6	Indian Tr
E5	Industrial Dr
	Inglewood / Hwy 50A Frontage Rd
E5	Inglewood Dr
F6	Nevada Pacific Pkwy
E5	Newlands Dr E
F6	Newlands Dr E
F7	Newlands Dr E
E6	Newlands Dr W
E3	Nighthawk Ct
D6	Nightingale Ct
D7	North Fork Rd
C3	Olive Branch Ct
D9	One Iron Ct
D4	Opal Wy
E3	Osprey Way
C5	Painted Valley Lane
E4	Palomino Dr
E4	Palomino Dr
E4	Park Ct
E4	Parkland Wy
C8	Partridge Rd
D9	Seven Iron Ct
D5	Pebble Ct
E4	Johnson Ln
E3	Johnson Ln
E3	Jonathan Ln
D4	Jones Wy
E3	Jordan Ct
D8	Julia Ln
C9	June Ct
D5	Juniper Peak Ct
D5	Pine Ridge Dr
D3	Pine St
E4	Pioneer Ct
C8	Pioneer Trail Rd
C9	Pole Line Rd
F3	Poplar St
D9	Poppy Hills Ct
D9	Poppy Hills Dr
E5	Prairie Lane
E4	Primrose Ct
E4	Primrose Dr
E4	Primsen Wy
D9	Pro Ct
E6	Prosser Ct
D9	Putter Ct
E3	Quail Run Ct
E3	Quail Run Dr
E5	Quarter Horse Wy
D8	Quick Cut Wy
E5	Quicksilver Ct
E3	Rachel St
D3	Racine Wy
D6	Rainbow Ln
E6	St. Louis Rd
D8	Ralph Ct
E4	Ranch Rd
D5	Rancho Rd
E6	Rancho Rd Ln
E4	Randee Ct
D9	Randy Ct
E4	Raptor Wy
F4	Raven Wy
E2	Rawhide Dr
D5	Rawles Dr
D9	Ray Ct
C4	Red Bluffs Wy
C4	Red Hawk Dr
E4	Red Oak Ct
E4	Red Oak Dr
E4	Red Opal Ct
E4	Red Opal Rd
E4	Redwood Ln
E4	Reed Ct
E4	Reed Wy
E5	Reese River Rd
E6	Relief Springs Rd
E6	Resource Dr
E6	Rhinehart Wy
D6	Ricci Ln
D5	Ricci Ln
C8	Richards Wy
C8	Richards Wy
E5	Riverbirch Rd
D5	Mountain View Dr
D5	Mud Ln
E2	Mustang Wy
D3	N Canal Rd
E3	N Canal Rd
E4	Nader Wy
F4	Nesting
E4	Rosehips Wy
D4	Rosewood Dr
E4	Rosewood Dr
D7	Rouge River Rd
E5	Round Up Rd
C3	Royal Oaks Dr
E3	Ruby St
E6	Rutledge St
E3	Saddle Horn Wy
D11	Sage Brush Rd
D3	Sage St
E2	Sage St
E3	Sage St
E4	Salvadore Dr
E4	Sandia Dr
E5	Sandia Dr
E3	Sara Ct
E3	Sarlo Dr
B10	Scenic St
E4	Scott Dr
E2	Seabiscuit Dr
E3	Season Dr
D9	Serenity Cir
D5	Seven Iron Ct
E4	Shadow Ln
E4	Shadow Ln
E5	Shadow Ln
E5	Shadow Mountain Dr
D3	Sheffield Wy
D5	Short Cut Ln
C3	Short Oak Ct
E4	Sidehill Dr
E4	Sierra St
D7	Silver Lace Blvd
D4	Silver Wy
E4	Silverado Ct
C9	Six Iron Ct
D4	Slate Wy
C9	Slice Ct
C9	Smith Ln
C8	Smithridge Ln
E6	Snowdrift Rd
E6	Snowflake Rd
E4	Snowy Plover Wy
E4	Soaring Wy
E2	Sonet Ct
E7	South Fork Rd
E6	Spaight Wy
E4	Sparrow Ct
E4	Spear Ct
E4	Spring Dr
E4	Spring Rd
E4	Spruce Dr
E5	Spur Ct
E5	Spur Way
E4	Stacy Ln
E2	Stallion Ct
E4	Stallion Ct
E4	Stanton Ln
E4	Starlight Ct
E5	Steven Wy
D7	Stillwater Wy
E4	Stirrup Ct
E2	Stock Ln
E5	Stock Ln
E5	Stone Creek Ct
D5	Streambed Dr
E3	Summer St
D5	Summerwind Dr
D6	Sunflower Ln
E3	Sunny Ln
E5	Sunrise Cir
E4	Sunset Ct
E4	Sunset Dr
E3	Sunshine Ln
E4	Suzanne Ct
E6	Sweetwater Ct
E4	Sycamore St
E6	Tamsen Ln
E6	Tamsen Rd
E3	Tanager Rd
F4	Tanglewood Dr
E4	Tara Ln
E4	Thorne Wy
D9	Three Iron Ct
E3	Timberline Dr
E4	Todd Ct
C4	Tommi Ct
D5	Treeline Dr
E4	Trellis Wy
E6	Trubode Ln
E5	Truck Inn Wy
E2	Truckee Ln
F2	Truckee Ln
D8	Turf Ct
D4	Turquoise Wy
D9	Two Iron Ct
C8	Ucceli Ln
D10	Us Hwy 50 Alt
D11	Us Hwy 50 Alt
D9	Us Hwy 50 Alt
E5	Us Hwy 50 Alt
E6	Us Hwy 50 Alt
E8	Us Hwy 50 Alt
E4	Valley View Dr
E4	Vance Dr
D8	Vanessa Ln
E4	Vera Wy
E4	Village Dr.
F4	Vine St
E4	Violet Wy
D5	Vista Nicci Ct
E4	Vista Ln
D8	Vonnie Ln
D9	Vrhel Ct
E4	W Canary Ct
E6	Wadsworth
D7	Wangle Wy
E5	Wagon Wheel Ln
D9	Walker Ct
D7	Walker River Way
D8	Wallace Wy
C3	Walnut Ct
C3	Walnut Dr
C4	Walnut Dr
E5	Warren Wy
D3	Wasatch Ct
D3	Wasteland Ave
D3	Wasteland Ct
D9	Wedge Ln
C8	Wedge Ln
E6	West St
E4	Westerlund Ln
E4	Westward Ln
E6	Whipple Tree Ln
C5	White Buffs Dr
C5	White Buffs Ln
C5	White Hawk Ln
D5	White Oak Wy
C3	Whitney Ln
E3	Winter Pl
F2	Woodchuck Dr
D8	Woody Ln
E4	Wrenhorn Ct
C4	Wrenhorn Dr
E5	Wrangler Ln
C4	Yves Dr


Churchill County
Washoe County
Lyon County
City of Fernley
Storey County
Pyramid Lake Paiute Reservation
Nevada Cement
Love's Truck Stop
Commerce Center Dr
Water Treatment Plant
Pilot Truck Stop
Jackpot Crossing
Pilot Rd
Logan Ln
Mesa Dr
Woodchuck Dr
Truckee Ln
Margaret Wy
Carol Wy
Stock Ln
Farrell Ct
Quail Run Rd
Jonathan Ln
Rose Ln
Country Cir
Country Dr
Sage St
Stallion Ct
Bart Ln
Saddlebred Dr
Waveland Av
Racine Wy
Reno Dr
Hills Ct
Mule Ln
Refuse
Dark Park
Veterans Cemetery
Fernley Cemetery
Motocross
Mission Wy
Kristin Wy
Diablo Cir
Calvary Chapel
Main Street Park
Post Office
Fire Station
In Town Park
Comstock Dr
McCarthy St
Cedar St
Beverly Ct
Heather Ln
Laurel Ln
Falcon Dr
F.E.S.
Library
City Hall
Sheriff's Office
Willow Park Way
Middlebrook Dr
Willow Wy
Westerlund Ln
Primrose Dr
Willowcrest Dr
Bramble Dr
Shadow Ln
Mountain Rose Ln
Prairie Ln
Darren Wy
Jennys Ln
Shadow Mountain Dr
Aster Ln
Canary Cir
Old Maid Ln
Farm Ln
Andy Wy
Emerson Cir
Bolkboard Wy
Rimfield Dr
Briarwood Ln
Emerson Rd
Diamond Wy
Scott Dr
Silver Wy
Green Valley Dr
Jasper Wy
Green Valley Park
Rancho Rd
Canal Dr
Sand Wy
Desert Shadows Ln
Worsham Ct
Tennis Ct
Valley View Dr
Rocky Ln
Sidehill Dr
Coyote Ln
Reet Ln
Walnut Ct
Oak Dr
Royal Oaks Dr
Hazelnut Dr
Walnut Dr
Cornerstone Way
Cory Buffs Dr
Buffs Cir
Buffs Dr
White Cir
F.H.S.
Fernley High School Rd
North Line Rd
Catholic Church
Tiger Field Airport
Reno Fernley Racetrack
Sierra Ct
Nadelwy
Blue Jay Dr
Sunshine Dr
Sierra St
Sunny Ln
Starlite Dr
Summer St
Winter Pl
Swimming Pool
City Maint Yard
Recycle Ctr
Fire Station
Post Office
Main Street Park
Library
City Hall
Sheriff's Office
Old IP Steel Plant
Evaporation
Soccer Fields
Willow Park Way
Middlebrook Dr
Willow Wy
Westerlund Ln
Primrose Dr
Willowcrest Dr
Bramble Dr
Shadow Ln
Mountain Rose Ln
Prairie Ln
Darren Wy
Jennys Ln
Shadow Mountain Dr
Aster Ln
Canary Cir
Old Maid Ln
Farm Ln
Andy Wy
Emerson Cir
Bolkboard Wy
Rimfield Dr
Briarwood Ln
Emerson Rd
Diamond Wy
Scott Dr
Silver Wy
Green Valley Dr
Jasper Wy
Green Valley Park
Rancho Rd
Canal Dr
Sand Wy
Desert Shadows Ln
Worsham Ct
Tennis Ct
Valley View Dr
Rocky Ln
Sidehill Dr
Coyote Ln
Reet Ln
Walnut Ct
Oak Dr
Royal Oaks Dr
Hazelnut Dr
Walnut Dr
Cornerstone Way
Cory Buffs Dr
Buffs Cir
Buffs Dr
White Cir
F.H.S.
Fernley High School Rd
North Line Rd
Catholic Church
Tiger Field Airport
Reno Fernley Racetrack
Sierra Ct
Nadelwy
Blue Jay Dr
Sunshine Dr
Sierra St
Sunny Ln
Starlite Dr
Summer St
Winter Pl
Swimming Pool
City Maint Yard
Recycle Ctr
Refuse
Dark Park
BMX Park
Racine Wy
Reno Dr
Hills Ct
Mule Ln
Waveland Av
Bonanza Dr
Stallion Ct
Bart Ln
Saddlebred Dr
Rose Ln
Country Cir
Country Dr
Sage St
Jonathan Ln
Quail Run Rd
Stock Ln
Farrell Ct
Carol Wy
Margaret Wy
Truckee Ln
Woodchuck Dr
Apache Dr
Mesa Dr
Logan Ln
Pilot Rd
Commerce Center Dr
Love's Truck Stop
Nevada Cement
Water Treatment Plant
Pyramid Lake Paiute Reservation
Storey County
Lyon County
City of Fernley
Churchill County
Washoe County
Veterans Cemetery
Fernley Cemetery
Motocross
Mission Wy
Kristin Wy
Diablo Cir
Calvary Chapel
Main Street Park
Post Office
Fire Station
In Town Park
Comstock Dr
McCarthy St
Cedar St
Beverly Ct
Heather Ln
Laurel Ln
Falcon Dr
F.E.S.
Library
City Hall
Sheriff's Office



Legend

- 2 Mile Radius
- Approximate Facility Location
- NDOW Wildlife Management Areas

1 0 1 2 3 mi

Figure 4-2
Nevada Department of Wildlife Management Area
Proximity Site Map

2185 Newlands Drive East
Fernely, Nevada 89408

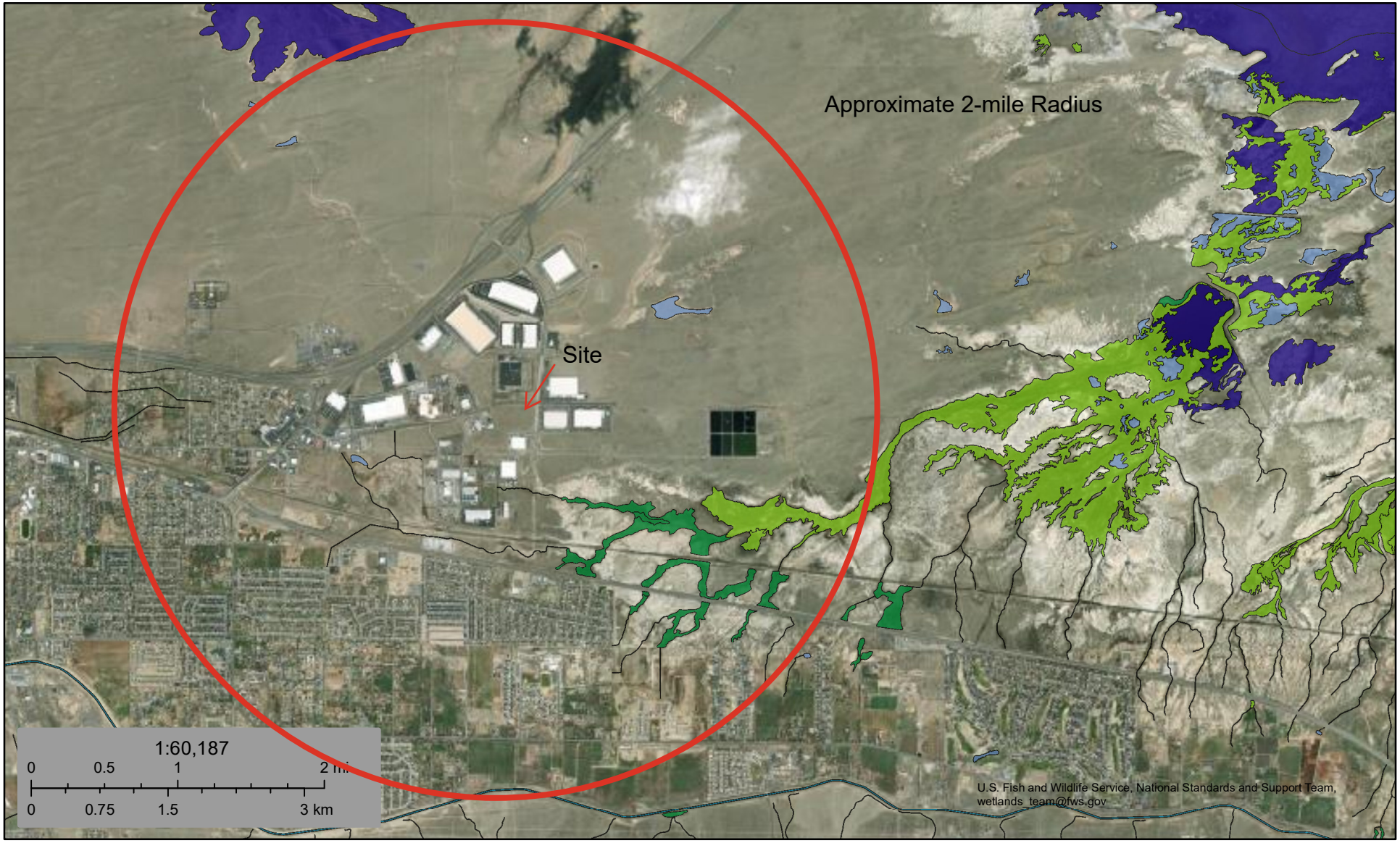
PREPARED BY:	A.B.	CHECKED BY:	L.S.
DATE:	August 2025	PROJECT NO.:	001049-0061.01

ALL4

Topographic Map Courtesy of the United States Geological Survey

U.S. Fish and Wildlife Service
National Wetlands Inventory

Figure 4-3
2185 Newlands Drive East, Fernley, NV



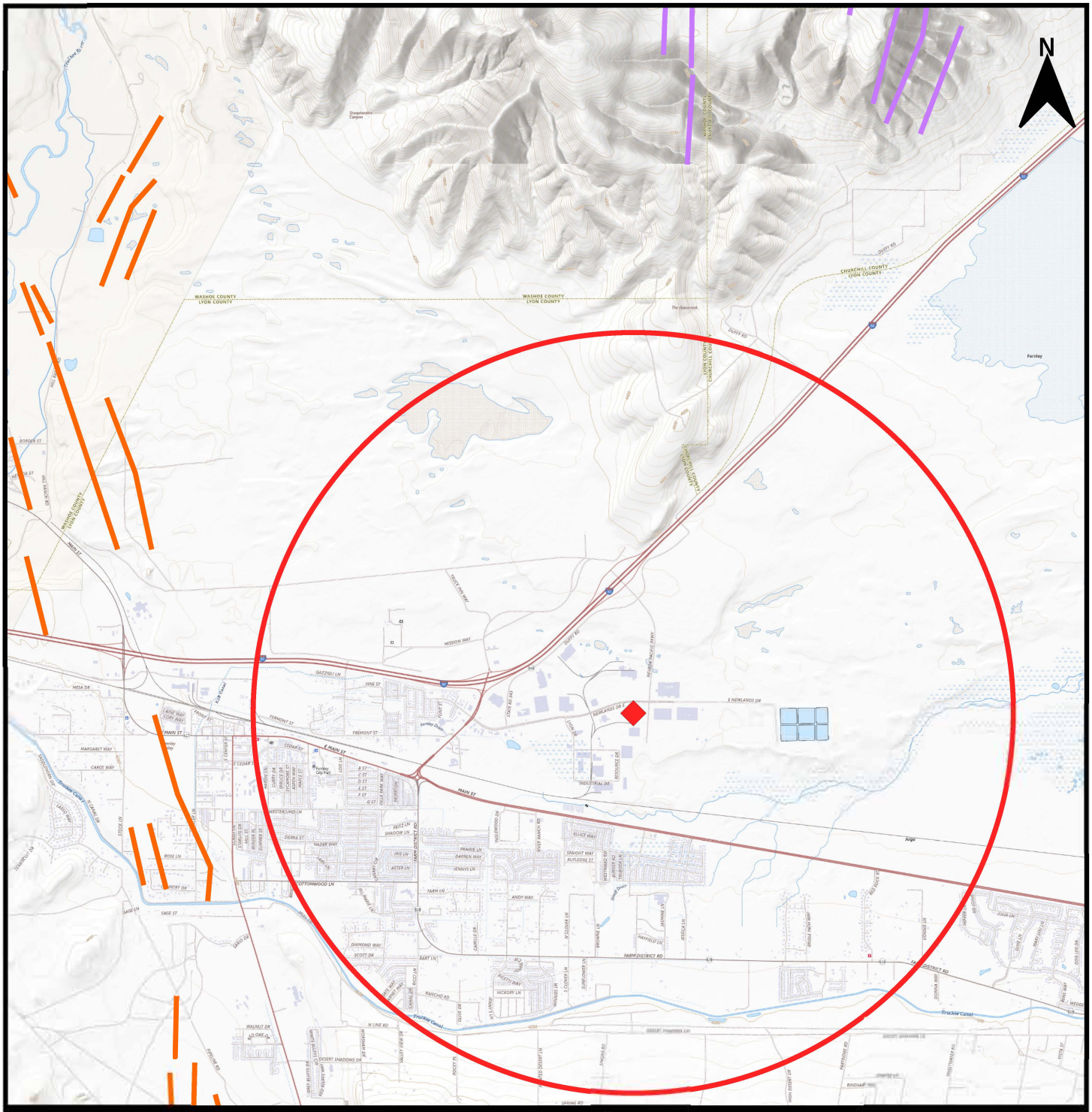
August 4, 2025

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

National Wetlands Inventory (NWI)
This page was produced by the NWI mapper



Legend

- 2 Mile Radius
- Approximate Facility Location
- Quarternary Fault <15,000 Years Old,
- Quarternary Fault <1.8 million Years Old

0 250 500 750 1,000 m

Figure 4-4
Quarternary Fault Map

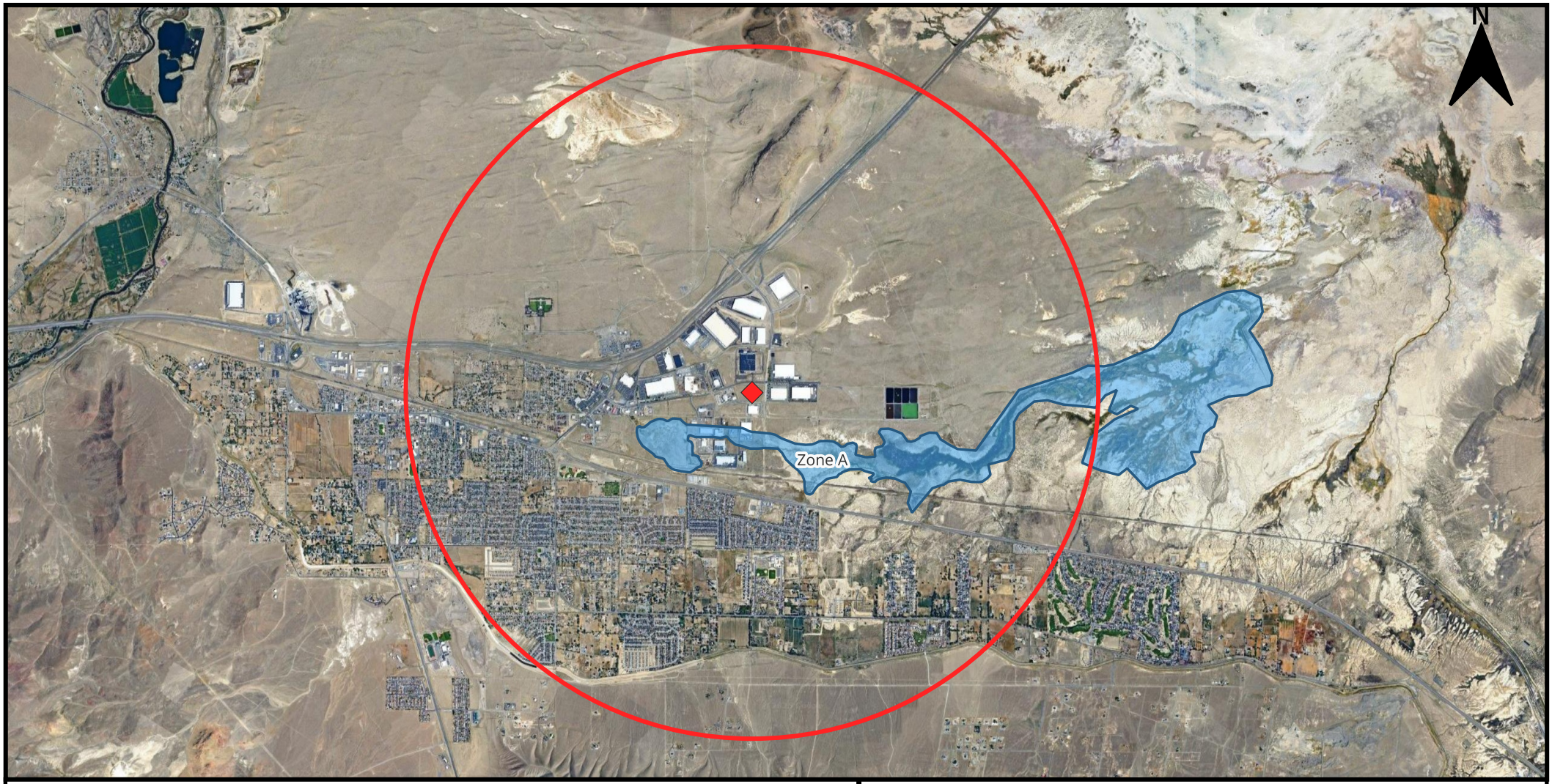
2185 Newlands Drive East
Fernley Nevada, 89408

PREPARED BY:	CHECKED BY:
A.B.	L.S.
DATE:	PROJECT NO.:
August 2025	001049-0061.01

ALL4

Topographic Map Courtesy of the United States Geological Survey

Quaternary fault location data derived from the U.S. Geological Survey Quaternary Faults Database.



Legend

- Facility Location
- Approximate 2 Mile Radius
- FEMA Floodplain Area

1 0 1 2 3 mi

Figure 4-5
FEMA Floodplain Map

2185 Newlands Drive East
Fernley, Nevada 89408

PREPARED BY:	A.B.	CHECKED BY:	L.S.
DATE:	August 2025	PROJECT NO.:	001049.0061.01

Aerial Map Courtesy of Google Earth
Floodplain information derived from the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Maps

APPENDIX A – ENDANGERED SPECIES REPORT

United States Department of the Interior

FISH AND WILDLIFE SERVICE
Reno Fish And Wildlife Office
1340 Financial Boulevard, Suite 234
Reno, NV 89502-7147
Phone: (775) 861-6300 Fax: (775) 861-6301

In Reply Refer To: 09/09/2025 16:07:22 UTC
Project Code: 2025-0146807
Project Name: CE FERNLEY

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed, and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through IPaC by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological

evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at: https://www.fws.gov/sites/default/files/documents/endangered-species-consultation-handbook.pdf

Migratory Birds: In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts, see Migratory Bird Permit | What We Do | U.S. Fish & Wildlife Service (fws.gov).

It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a federal nexus) or a Bird/Eagle Conservation Plan (when there is no federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures, see https://www.fws.gov/library/collections/threats-birds.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat. For information regarding the implementation of Executive Order 13186, please visit https://www.fws.gov/partner/council-conservation-migratory-birds.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Code in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List
- USFWS National Wildlife Refuges and Fish Hatcheries

- Bald & Golden Eagles
- Migratory Birds
- Wetlands

OFFICIAL SPECIES LIST

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

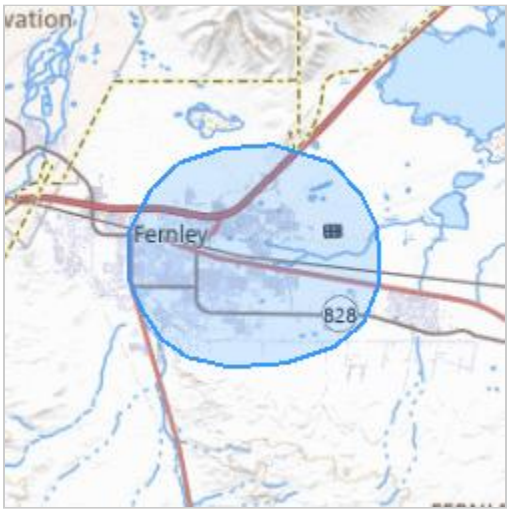
This species list is provided by:

Reno Fish And Wildlife Office
1340 Financial Boulevard, Suite 234
Reno, NV 89502-7147
(775) 861-6300

PROJECT SUMMARY

Project Code: 2025-0146807
Project Name: CE FERNLEY
Project Type: Special Use Permit - Research
Project Description: Application for Variance for Permit Renewal
Project Location:

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@39.6019777,-119.20563873101877,14z



Counties: Lyon County, Nevada

ENDANGERED SPECIES ACT SPECIES

There is a total of 4 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries[1], as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

---

1. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

BIRDS

NAME	STATUS
California Condor *Gymnogyps californianus* Population: Pacific Northwest NEP No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/8193	Experimental Population, Non-Essential
Yellow-billed Cuckoo *Coccyzus americanus* Population: Western U.S. DPS There is **final** critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/3911	Threatened

REPTILES

NAME	STATUS
Northwestern Pond Turtle *Actinemys marmorata* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/1111	Proposed Threatened

INSECTS

NAME	STATUS
Monarch Butterfly *Danaus plexippus* There is **proposed** critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/9743	Proposed Threatened

CRITICAL HABITATS

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

USFWS NATIONAL WILDLIFE REFUGE LANDS AND FISH HATCHERIES

Any activity proposed on lands managed by the National Wildlife Refuge system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS OR FISH HATCHERIES WITHIN YOUR PROJECT AREA.

BALD & GOLDEN EAGLES

Bald and Golden Eagles are protected under the Bald and Golden Eagle Protection Act [2] and the Migratory Bird Treaty Act (MBTA) [1]. Any person or organization who plans or conducts activities that may result in impacts to Bald or Golden Eagles, or their habitats, should follow appropriate regulations and consider implementing appropriate avoidance and minimization measures, as described in the various links on this page.

---

1. The Bald and Golden Eagle Protection Act of 1940.
2. The Migratory Birds Treaty Act of 1918.
3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

There are Bald Eagles and/or Golden Eagles in your project area.

Measures for Proactively Minimizing Eagle Impacts
For information on how to best avoid and minimize disturbance to nesting bald eagles, please review the National Bald Eagle Management Guidelines. You may employ the timing and activity-specific distance recommendations in this document when designing your project/ activity to avoid and minimize eagle impacts. For bald eagle information specific to Alaska, please refer to Bald Eagle Nesting and Sensitivity to Human Activity.

The FWS does not currently have guidelines for avoiding and minimizing disturbance to nesting Golden Eagles. For site-specific recommendations regarding nesting Golden Eagles, please consult with the appropriate Regional Migratory Bird Office or Ecological Services Field Office.

If disturbance or take of eagles cannot be avoided, an incidental take permit may be available to authorize any take that results from, but is not the purpose of, an otherwise lawful activity. For assistance making this determination for Bald Eagles, visit the Do I Need A Permit Tool. For assistance making this determination for golden eagles, please consult with the appropriate Regional Migratory Bird Office or Ecological Services Field Office.

Ensure Your Eagle List is Accurate and Complete
If your project area is in a poorly surveyed area in IPaC, your list may not be complete and you may need to rely on other resources to determine what species may be present (e.g. your local FWS field office, state surveys, your own surveys). Please review the Supplemental Information on Migratory Birds and Eagles, to help you properly interpret the report for your specified location, including determining if there is sufficient data to ensure your list is accurate.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to bald or golden eagles on your list, see the "Probability of Presence Summary" below to see when these bald or golden eagles are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON
Bald Eagle *Haliaeetus leucocephalus* This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1626	Breeds Dec 1 to Aug 31

PROBABILITY OF PRESENCE SUMMARY

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read "Supplemental Information on Migratory Birds and Eagles", specifically the FAQ section titled "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

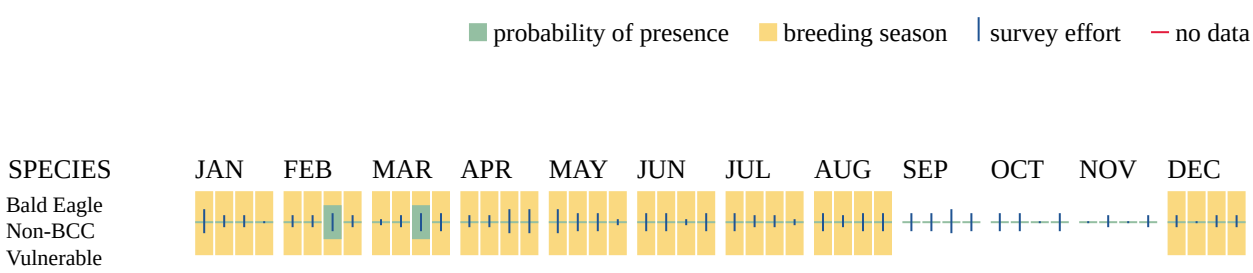
Probability of Presence (■)

Green bars; the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during that week of the year.

Breeding Season (■)
Yellow bars; liberal estimate of the timeframe inside which the bird breeds across its entire range.

Survey Effort (|)
Vertical black lines; the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps.

No Data (–)
A week is marked as having no data if there were no survey events for that week.



Additional information can be found using the following links:

- Eagle Management https://www.fws.gov/program/eagle-management
- Measures for avoiding and minimizing impacts to birds https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds

- Nationwide avoidance and minimization measures for birds https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf
- Supplemental Information for Migratory Birds and Eagles in IPaC https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action

MIGRATORY BIRDS

The Migratory Bird Treaty Act (MBTA) [1] prohibits the take (including killing, capturing, selling, trading, and transport) of protected migratory bird species without prior authorization by the Department of Interior U.S. Fish and Wildlife Service (Service).

---

1. The Migratory Birds Treaty Act of 1918.
2. The Bald and Golden Eagle Protection Act of 1940.
3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, see the "Probability of Presence Summary" below to see when these birds are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON
American Avocet *Recurvirostra americana* This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/11927	Breeds Apr 21 to Aug 10
American White Pelican *pelecanus erythrorhynchos* This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/6886	Breeds Apr 1 to Aug 31
Bald Eagle *Haliaeetus leucocephalus* This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1626	Breeds Dec 1 to Aug 31
California Gull *Larus californicus* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/10955	Breeds Mar 1 to Jul 31

NAME	BREEDING SEASON
Calliope Hummingbird *Selasphorus calliope* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9526	Breeds May 1 to Aug 15
Cassin's Finch *Haemorhous cassinii* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9462	Breeds May 15 to Jul 15
Evening Grosbeak *Coccothraustes vespertinus* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9465	Breeds May 15 to Aug 10
Lewis's Woodpecker *Melanerpes lewis* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9408	Breeds Apr 20 to Sep 30
Marbled Godwit *Limosa fedoa* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9481	Breeds elsewhere
Northern Harrier *Circus hudsonius* This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/8350	Breeds Apr 1 to Sep 15
Olive-sided Flycatcher *Contopus cooperi* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/3914	Breeds May 20 to Aug 31
Rufous Hummingbird *Selasphorus rufus* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/8002	Breeds Apr 15 to Jul 15
Sage Thrasher *Oreoscoptes montanus* This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/9433	Breeds Apr 15 to Aug 10
Willet *Tringa semipalmata* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/10669	Breeds Apr 20 to Aug 5

PROBABILITY OF PRESENCE SUMMARY

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read "Supplemental Information on Migratory Birds and Eagles", specifically the FAQ section titled "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

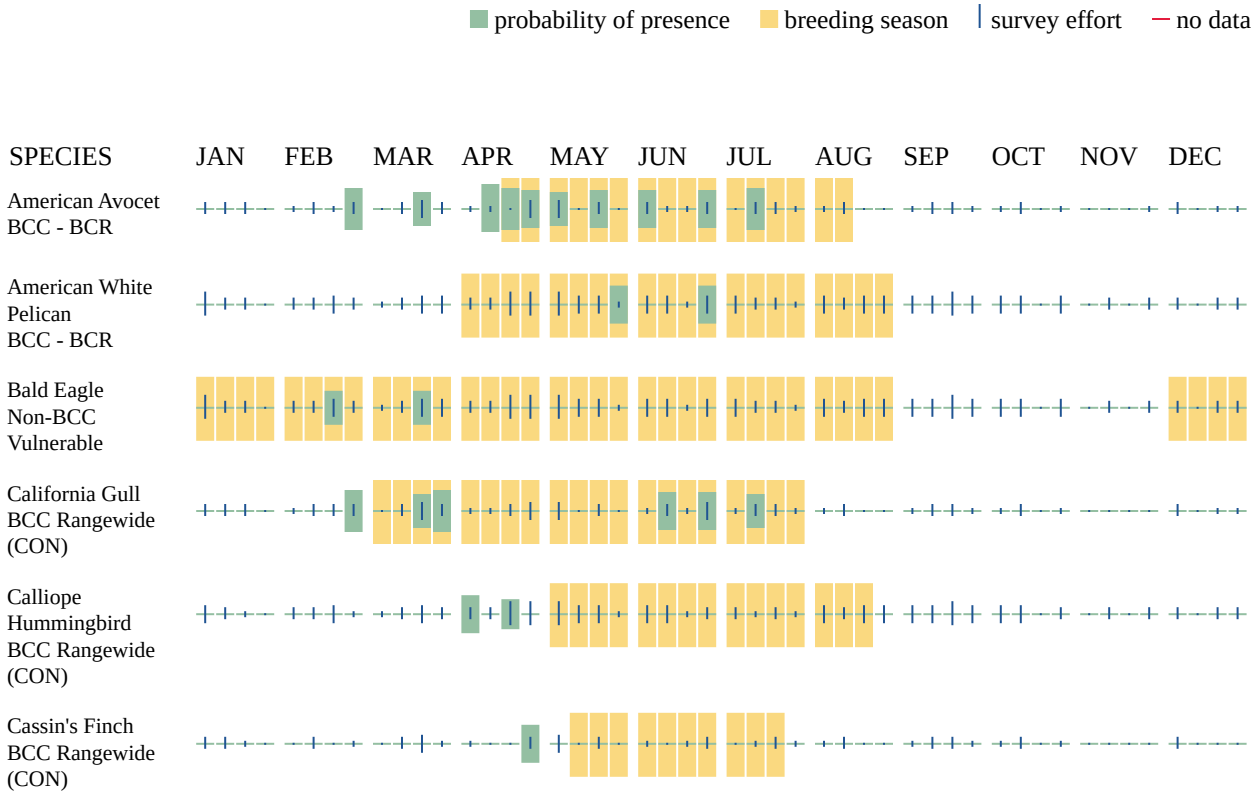
Probability of Presence (■)

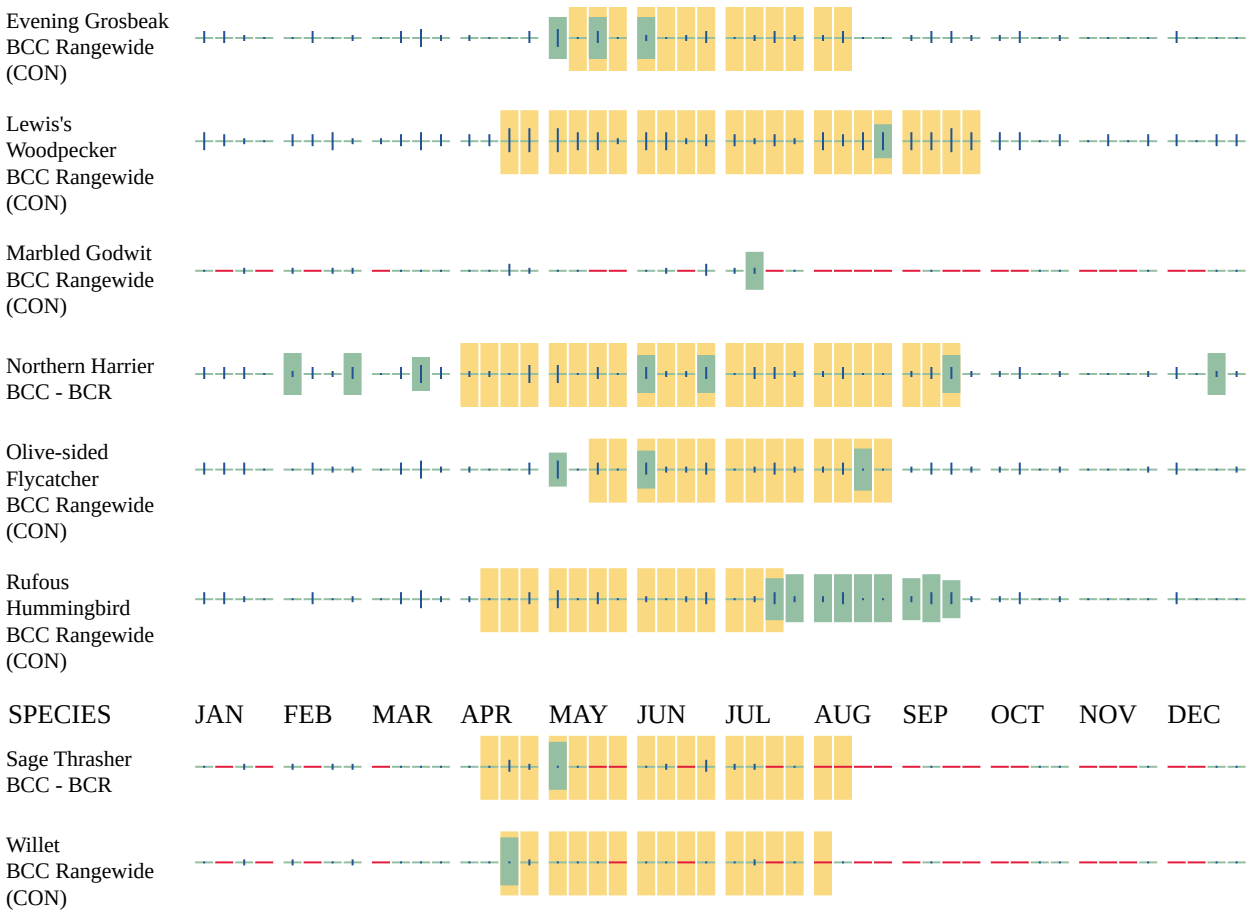
Green bars; the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during that week of the year.

Breeding Season (■)
Yellow bars; liberal estimate of the timeframe inside which the bird breeds across its entire range.

Survey Effort (|)
Vertical black lines; the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps.

No Data (–)
A week is marked as having no data if there were no survey events for that week.





Additional information can be found using the following links:

- Eagle Management https://www.fws.gov/program/eagle-management
- Measures for avoiding and minimizing impacts to birds https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds
- Nationwide avoidance and minimization measures for birds
- Supplemental Information for Migratory Birds and Eagles in IPaC https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action

WETLANDS

Impacts to NWI wetlands and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local U.S. Army Corps of Engineers District.

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

RIVERINE

- R4SBJ
- R4SBJx
- R4SBA
- R4SBAx
- R3UBHx

FRESHWATER POND

- PUSJ
- PUSJx
- PUBHx

FRESHWATER EMERGENT WETLAND

- PEM1C
- PEM1A

FRESHWATER FORESTED/SHRUB WETLAND

- PSS1/USJ
- PSS1A
- PSS1C

IPAC USER CONTACT INFORMATION

Agency: Private Entity
Name: Ashley Brooks
Address: 1601 Cherry Street,
City: Philadelpha
State: PA
Zip: 19102
Email abrooks@all4inc.com
Phone: 5022083137

APPENDIX B – NEVADA'S HISTORIC SITES

NEVADA
STATE HISTORIC
PRESERVATION OFFICE

Nevada's Historic Places

Welcome to the Nevada Historic Resources Map. Below you will find an interactive web tool that allows you to find resources in Nevada that have been recognized for their importance to the past. Resources on the map have been listed in the National Register of Historic Places or the Nevada State Register of Historic Places. Preserving these important places requires the knowledge and investment of Nevada citizens like you! Please take your time exploring and learning about why these important places matter to the past, present, and future of Nevada.

If you are interested in nominating a property to the National or State Registers, please visit the webpage for each below.

Nevada State Register of Historic Places
National Register of Historic Places

For a complete list of all of Nevada's State and National Register designations, download these documents:

Places in Nevada listed in the National Register of Historic Places

Places in Nevada listed in the Nevada State Register of Historic Places

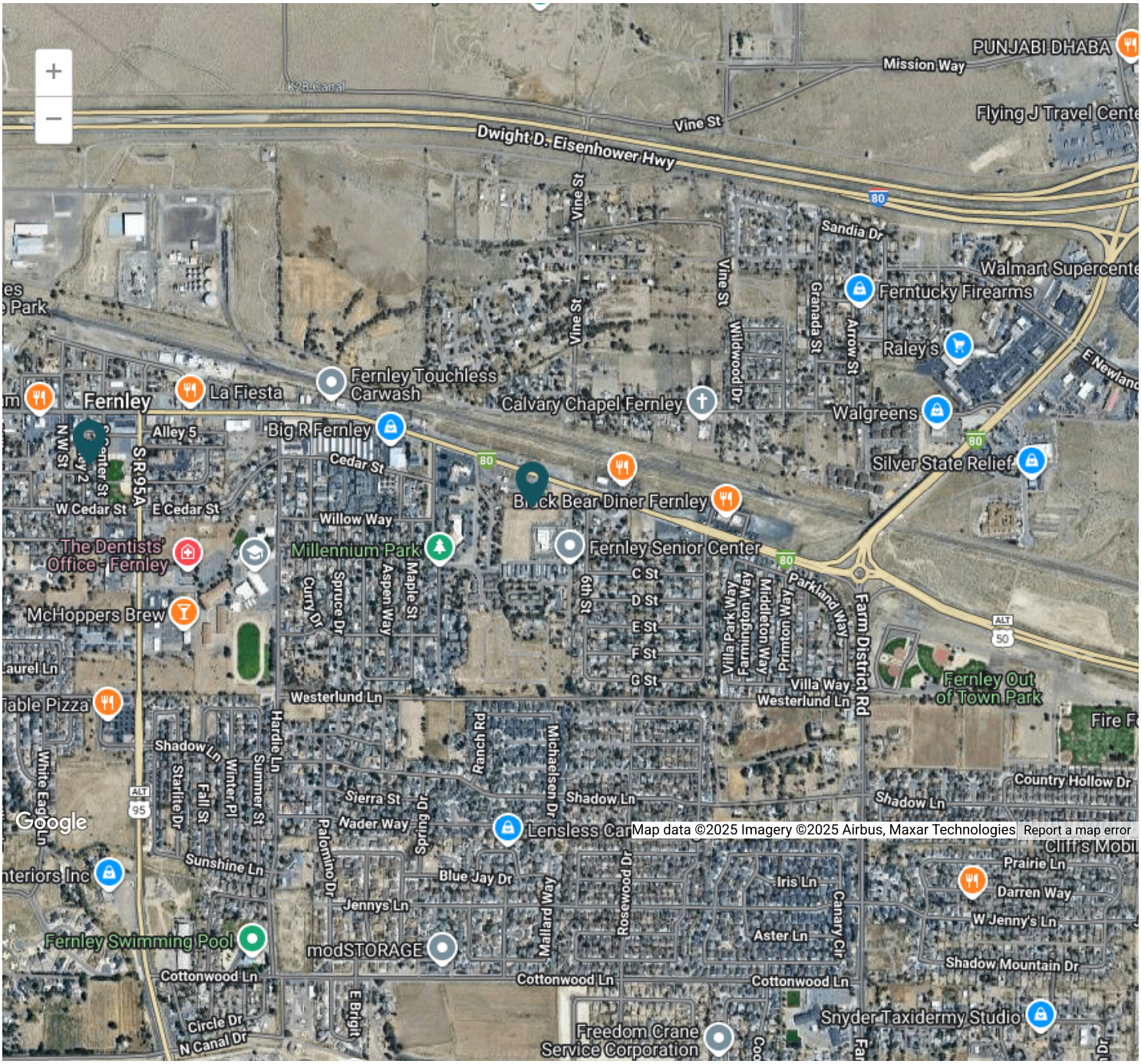
Looking for a copy of a publicly available nomination form? The SHPO has made these forms conveniently available for download in the map below. If you would prefer to request this information directly from our office, please follow the Public Records request instructions found *here*.

How to Use the Map: Every listing has a pinpoint shape. Click on the pinpoint and this will reveal some basic information about a site, including its name, the date of its historic designation, and a scan of the documentation for the resource. Not sure what you're looking for? You can also filter by county or city to check out what's historic in your neighborhood or where you're planning to visit soon!

Find an Historic Place

Lyon County ×

Fernley ×



NRIS #: 3000414

State Register #: 30121

City: Fernley

County: Lyon County

Date of Listing (NRHP): 05/16/2003

Date of Listing (SRHP): 03/12/2003

Download Nomination

Fernley and Lassen Railway Depot--Fernley, Nevada

Alternative Name: Fernley and Lassen Railway Depot--Fernley, Nevada

NRIS #: 5000513

State Register #: 111

City: Fernley

County: Lyon County

Date of Listing (NRHP): 04/05/2005

Date of Listing (SRHP): 09/18/2000

Download Nomination

NAVIGATE

State and National Register

Historic Markers

Review & Compliance

Preservation Programs

ADA ASSISTANCE

CONTACT US

Carson City:
901 S. Stewart Street, Suite 3002
Carson City, Nevada 89701
(775) 684-3448
all program areas

Las Vegas:
4747 Vegas Drive, Building B

Las Vegas, NV 89108
(702) 486-5011
Stewardship program area

Comstock Historic District Commission Office:
20 N. "E" Street, P.O. Box 128
Virginia City, NV 89440
(775) 847-0281

DCNR AGENCIES

Department of Conservation and Natural Resources

Division of Environmental Protection

Division of Forestry

Division of State Lands

Division of State Parks

Division of Water Resources

Natural Heritage Program

Nevada Division of Outdoor Recreation

LEGAL

The State Historic Preservation Office and the Comstock Historic District Commission are located in the Department of Conservation and Natural Resources.

Privacy Policy

APPENDIX C – CERTIFICATE OF DESIGNATION APPLICATION

CleanEarth

September 6, 2024

Mr. Jonathan Zittel, Permitting Branch Supervisor
Nevada Division of Environmental Protection
Bureau of Sustainable Materials Management
Hazardous & Solid Waste Permitting Branch
901 South Stewart Street, Suite 4001
Carson City, Nevada 89701

RE: Certificate of Designation Application, 21st Century Environmental Management of Nevada, LLC

Dear Mr. Zittel,

21st Century Environmental Management of Nevada, LLC (21EMN) owns and operates a hazardous waste storage and treatment facility in Fernley, Nevada (Fernley Facility). 21EMN submits this application to the Nevada Department of Environmental Protect to request a Certificate of Designation for the property located at 2185 Newlands Drive East, Fernley, Lyon County, Nevada to expand the Fernley Facility as described in this application.

As the responsible official, I certify, based on information and belief formed after reasonable inquiry, the statements and information contained in this document and attachments are true, accurate, and complete. Should you have any questions about this submittal, please feel free to contact T.J. McCaustland at (770) 891-2531 or TMcCaustland@CleanEarthInc.com.

Sincerely,
21EMN

John Black
Regional Vice President, Hazardous Waste-South

cc: Greg Fink, Clean Earth LLC
William Shane, ALL4 LLC

Attachments: Certificate of Designation Application

CERTIFICATE OF DESIGNATION APPLICATION

2185 NEWLANDS DRIVE EAST, FERNLEY NEVADA 89408

21ST CENTURY ENVIRONMENTAL MANAGEMENT OF NEVADA, LLC

SEPTEMBER 2024

SUBMITTED BY:

CleanEarth

21st Century Environmental Management of Nevada, LLC
2095 Newlands Drive East
Fernley, NV 89408

SUBMITTED TO:

NEVADA DIVISION OF ENVIRONMENTAL PROTECTION

Nevada Division of Environmental Protection
Bureau of Sustainable Materials Management
901 South Stewart Street
Suite 4001
Carson City, Nevada 89701

TABLE OF CONTENTS

Section Name **Page Number**

1. INTRODUCTION 1-1

1.1 SUMMARY OF UNSATISFIED REQUIREMENTS 1-1

2. PROJECT DESCRIPTION 2-1

2.1 GENERAL FACILITY INFORMATION 2-1

2.2 PROPOSED FACILITY EXPANSION OPERATIONS – FUEL BLENDING UNIT 2-2

2.2.1 Design and Capacity 2-3
2.2.2 Waste Characteristics 2-3
2.2.3 Process Description 2-3
2.2.4 Containment 2-4
2.2.5 Inspections 2-4

2.3 PROPOSED FACILITY EXPANSION OPERATIONS – UNIVERSAL WASTE LAMP TREATMENT UNIT 2-5

2.3.1 Design and Capacity 2-5
2.3.2 Waste Characteristics 2-5
2.3.3 Process Description 2-5
2.3.4 Containment 2-6
2.3.5 Inspections 2-6

2.4 PROPOSED FACILITY EXPANSION OPERATIONS – 10-DAY TRANSFER FACILITY 2-6

2.4.1 Containment 2-7
2.4.2 Inspections 2-7

3. NEVADA ADMINISTRATIVE CODE REQUIREMENTS 3-1

3.1 TRANSPORTATION 3-1

3.2 SPILLS, DISCHARGE, FIRE, FAILURE OF EQUIPMENT, AND OTHER EMERGENCIES 3-2

3.2.1 Notification 3-3
3.2.2 Migration and Control 3-3
3.2.3 Clean up and Management of Released Waste and Contaminated Materials 3-3
3.2.4 Restoration of Impacted Areas 3-3

3.3 EXPOSURE TO PERSONS OF HAZARDOUS WASTE OR PRODUCTS OF THE DEGRADATION OF HAZARDOUS WASTE 3-4

3.4 LOCAL AND REGIONAL PLANS AND REGULATIONS FOR THE USE OF LAND 3-4

3.5 PROTECTION OF THE PUBLIC FROM ADVERSE EFFECTS 3-4

3.5.1 Prevention of Degradation to Groundwater and Surface Water Quality 3-5
3.5.2 Prevention of Degradation of Air Quality 3-5
3.5.3 Prevention of Destruction or Impairment of Flora and Fauna 3-6
3.5.4 Prevention of Excessive Noise 3-6
3.5.5 Prevention of Negative Aesthetic Impacts 3-6
3.5.6 Prevention of Soil Instability 3-6
3.5.7 Prevention of Adverse Effects After Closure 3-7
3.5.8 Prevention of Economic Impacts 3-7

3.6 PUBLIC AND PRIVATE SOURCES OF DRINKING WATER 3-8

3.7 ENVIRONMENTALLY SENSITIVE AREAS 3-8

TABLE OF CONTENTS

Section Name **Page Number**

3.7.1 Scenic Areas 3-9
3.7.2 Historic Areas 3-9
3.7.3 Recreational Areas 3-9
3.7.4 Wetlands and Surface Waters 3-9
3.7.5 Floodplains 3-9
3.7.6 Wildlife Areas 3-10
3.8 POPULATION DENSITY 3-10
3.9 PUBLIC BENEFITS OF PROPOSED FACILITY 3-10
3.10 ALTERNATE SITE OR METHODS FOR THE MANAGEMENT OF HAZARDOUS WASTE 3-11
3.11 QUALIFICATION TO MANAGE HAZARDOUS WASTE 3-11
4. FACILITY SITING REQUIREMENTS 4-1
4.1 DWELLINGS, SCHOOLS, CHURCHES, COMMUNITY CENTER, OR RESIDENTIAL USE AREAS 4-1
4.2 PUBLIC PARKS 4-1
4.3 WILDLIFE MANAGEMENT AREAS 4-1
4.4 WILDLIFE KEY, THREATENED, AND ENDANGERED SPECIES HABITATS 4-2
4.5 SURFACE WATERS AND WETLANDS 4-2
4.6 NATURAL OR MAN-MADE GEOLOGICAL HAZARDS 4-2
4.7 PUBLIC DRINKING WATER WELLS 4-3
4.8 HISTORICAL OR ARCHEOLOGICAL SITES 4-3
4.9 FLOODPLAIN REQUIREMENTS 4-3
4.10 WATER TABLE REQUIREMENTS 4-4

LIST OF FIGURES

Figure 1-1 Facility Location Map

Figure 1-2 Site Aerial Map

Figure 2-1 Fernley Facility Layout Map

Figure 3-1 Facility Access Routes

Figure 3-2 Land Use Map

Figure 3-3 National Wetlands Inventory Map

Figure 3-4 FEMA Floodplain Map

Figure 3-5 NDOW Wildlife Areas Map

Figure 4-1 City of Fernley Street Map

Figure 4-2 Quaternary Fault Map

LIST OF TABLES

Table 1-1 Summary of Unsatisfied NAC Requirements 1-2

Table 3-1 Volumes and Road Classification for Access Routes and Adjacent Roadways 3-1

LIST OF APPENDICES

Appendix A – Certificate of Designation Checklist

Appendix B – Accepted Waste Codes

Appendix C – NDOT 2023 Annual Traffic Report for Lyon County

Appendix D – Contingency Plan

Appendix E – NSHPO Historic Places

Appendix F – EJScreen Report

Appendix G – Fish and Wildlife Species List

1. INTRODUCTION

21st Century Environmental Management of Nevada, LLC (21EMN) owns and operates a hazardous waste storage and treatment facility in Fernley, Nevada (Fernley Facility). The Fernley Facility is located at 2095 Newlands Drive East in the City of Fernley, Lyon County, Nevada and operates under Resource Conservation and Recovery Act (RCRA) Permit No. NEVHW0033 effective December 19, 2019. A RCRA Permit Renewal Application was submitted to the Nevada Department of Environmental Protection (NDEP) on June 24, 2024.

21EMN intends to purchase the adjacent 18.9-acre property located at 2185 Newlands Drive East (Site) to expand the Fernley Facility with the following hazardous waste management land use (Project):

1. Construction and Operation of a fuel blending unit;
2. Construction and Operation of a universal waste lamp treatment unit; and
3. Construction and Operation of a separate 10-day Transfer Facility.
4. No land disposal will take place at the Fernley Facility.

21EMN submits this application to NDEP to obtain a Certificate of Designation for the property located at 2185 Newlands Drive East, Fernley, Lyon County, Nevada for land use as described in this application. A description of the proposed land use is provided in Section 2 of this application. Nevada Administrative Code (NAC) 444.8458, Certificate of Designation Requirements are provided in Section 3, and NAC 444.8456, Facility Siting Requirements are provided in Section 4. A Site Location Map and Site Aerial Map are included as included as *Figure 1-1* and *Figure 1-2,* respectively. A Certificate of Designation Checklist for the Project is included as *Appendix A*.

1.1 SUMMARY OF UNSATISFIED REQUIREMENTS

To expedite the review of this application, 21EMN has provided a summary of Certificate of Designation Requirements, NAC 444.8458, and Facility Siting Requirements, NAC 444.8456 that do not meet the applicable requirements included as Table 1-1. A detailed description of each application requirement is provided in Section 2-4 of this application.

Table 1-1
Summary of Unsatisfied NAC Requirements

NAC Reference	Requirement	Reason for Unsatisfied Requirement
NAC 444.8456	*A stationary new or expanding facility for the management of hazardous waste must not be constructed within one mile of:*	
NAC 444.8456.1(a)(2)	An area zoned solely for residential use.	A residential neighborhood is located approximately 0.7-miles south of the Site.
NAC 444.8456.1(a)(4)	A wildlife management area.	The Fernley Wildlife Management Area which is located approximately 0.5-miles southeast of the Site.
NAC 444.8456.1(a)(6)	An area where surface water or wetlands occur.	Freshwater forested/shrub wetlands are located approximately 0.5-miles southeast of the Site. Two freshwater ponds are located approximately 0.8-miles west and northeast of the Site.
NAC 444.8456.1(c)	A 100-year floodplain.	A Special Flood Hazard Areas, Zone A is located approximately 0.2-miles south of the Site.
NAC 444.8456.1(d)	An area where the water table seasonally rises to within 150 feet of the surface of the ground.	Water levels at the Site range approximately 29 to 37 feet below ground surface.
NAC 444.8458.2(f)	Whether the proposed facility complies with the provisions of NAC 444.8456.	Requirements of NAC 444.8456.1(a)(2,4,6) and NAC 444.8456.1(c,d) are not satisfied as identified in this table.



Legend

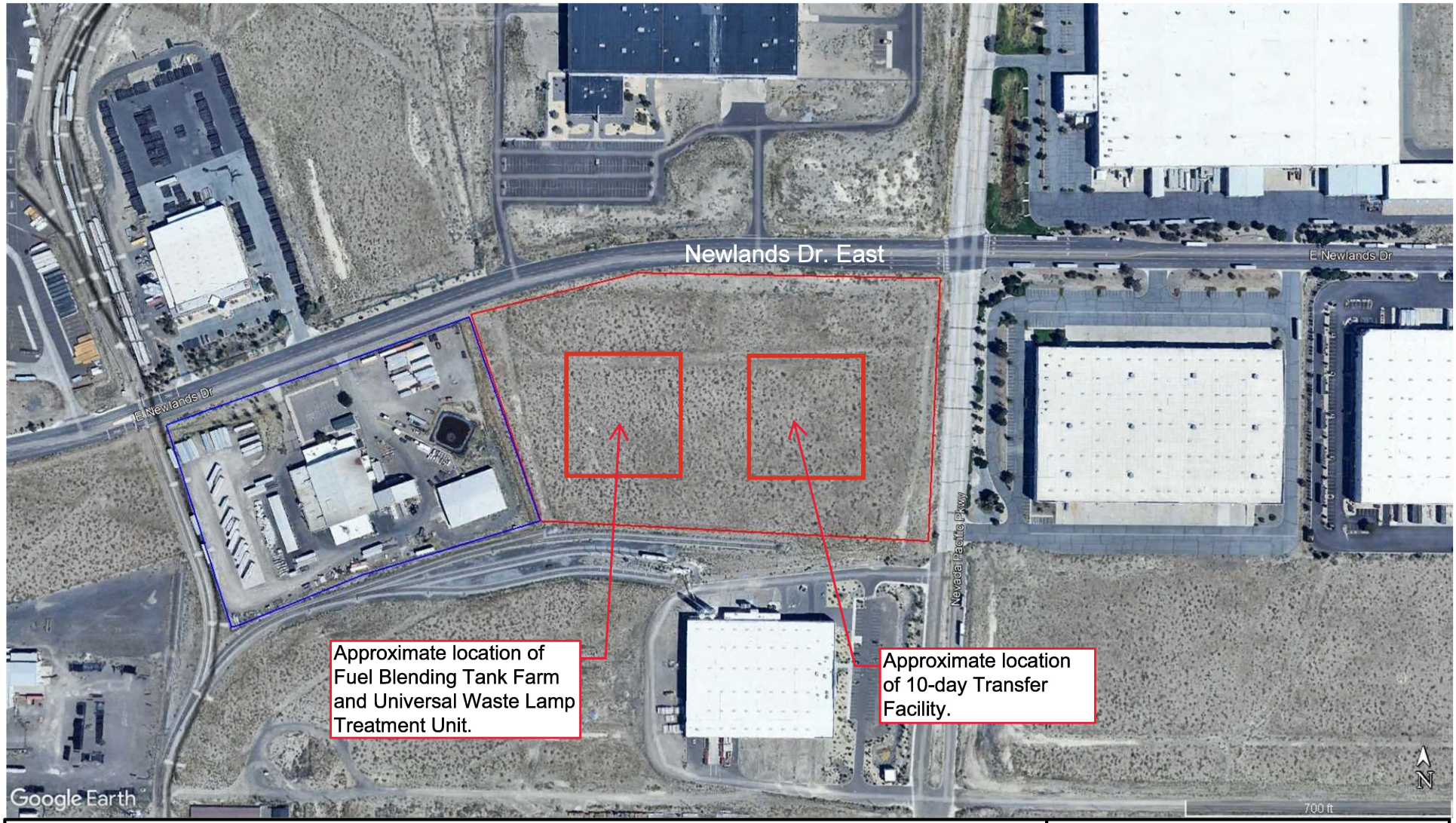
2095 & 2185 Newlands Drive East – Existing and Proposed 21EMN Facilities

Figure 1-1
Facility Location Map

21st Century Environmental Management of Nevada, LLC
2095 & 2185 Newlands Drive East
Fernley, Nevada 89408

PREPARED BY:	CHECKED BY:
MHF	**NWK**
DATE:	PROJECT NO.:
July 2024	**01049-0035**

Image Courtesy of Google Earth Pro. Retrieved July 16, 2024.



Legend

- 2095 Newlands Drive East – Existing 21EMN Facility
- 2185 Newlands Drive East – Proposed Facility Expansion

Figure 1-2
Site Aerial Map

21st Century Environmental Management of Nevada, LLC
2095 & 2185 Newlands Drive East
Fernley, Nevada 89408

PREPARED BY:	CHECKED BY:
MHF	NWK
DATE:	PROJECT NO.:
July 2024	01049-0035

Image Courtesy of Google Earth Pro. Retrieved July 16, 2024.

2. PROJECT DESCRIPTION

The proposed Project is to expand the Fernley Facility to include the adjacent 18.9-acre property at 2185 Newlands Drive East for the construction and operation of a fuel blending unit and universal waste lamp treatment unit and a separate 10-day Transfer Facility. No land disposal will take place at the Fernley Facility.

2.1 GENERAL FACILITY INFORMATION

Facility Name

21st Century Environmental Management
of Nevada, LLC
2095 Newlands Drive East
Fernley, Nevada 89408
Phone: (755) 575-2760
U.S. EPA ID No. NVD980895338

Facility Operator & Owner

21st Century Environmental Management
of Nevada, LLC
2095 Newlands Drive East
Fernley, Nevada 89408
Phone: (755) 575-2760

The Fernley Facility currently processes organic and inorganic non-hazardous and hazardous wastes as a commercial hazardous waste treatment, storage, and recycling facility. Typical wastes managed at the Fernley Facility include acids, alkalis, metal-bearing aqueous liquids and sludges, cyanides, batteries, and household hazardous wastes. The Fernley Facility can receive, store, and process waste in either bulk loads or containers. All received wastes have a total organic carbon (TOC) content of less than 10% by weight and volatile organic compounds (VOC) content of less than 500 parts per million by weight (ppmw).

Current permitted hazardous waste operations at the Fernley Facility occur on approximately seven of the 10 acres that comprise the Fernley Facility property. Portions of the property that are not designated for permitted hazardous waste management operations may be subdivided and/or segregated for other compatible uses and activities. A Fernley Facility Layout Map of current operations is provided as *Figure 2-1*.

Current Facility operations consist of:

- Seven Container Storage Units;
- Three Oxidizer Waste Locker Storage Units;
- One Waste Locker Storage unit for Fireworks or Oxidizers;
- Six Alkaline/Cyanide Storage Tanks;
- Two Alkaline Storage Tanks;
- 11 Acid Storage Tanks;
- Seven Chemical Treatment Tanks;
- Seven Post-Treatment/Storage Tanks;
- One Evaporator;
- Three Filter Presses;
- Lab Pack and Loose Pack Consolidation Operations;
- One Aerosol Processing Unit (APU) with Regenerative Thermal Oxidizer (RTO) (Modification Application submitted but not yet approved by NDEP); and
- One APU Storage Tank (Modification Application submitted but not yet approved by NDEP).

Treatment of wastes includes chemical and physical treatment. Specific processes used to manage wastes at the Facility include:

- Chemical Oxidation, Reduction, and Precipitation Cyanide Destruction;
- Dewatering;
- Evaporation;
- Filtration;
- Fragmentation and Separation; and
- Lab Packing and Loose Packing Neutralization.

2.2 PROPOSED FACILITY EXPANSION OPERATIONS – FUEL BLENDING UNIT

NAC 444.8458.2(g)

The Fernley Facility proposes to construct and operate a fuel blending tank farm at the Site for organic waste streams and inorganic waste streams.

2.2.1 Design and Capacity

The proposed fuel blending tank farm will have up to eight 25,000-gallon fuel blending tanks for a maximum capacity of 200,000 gallons. Tanks will be welded stainless steel construction above ground storage tanks (AST).

2.2.2 Waste Characteristics

High British thermal Unit (BTU) liquids including paints, inks, solvents, styrenes, adhesives, sealants, fuels, oils, and VOC concentrations which may be greater than 500 ppmw, and low BTU, lean waters will be used. Blended fuels will be sold to cement kiln facilities to displace usage of coal in their operations or disposed off-site.

2.2.3 Process Description

Waste received at the Fernley Facility will be evaluated based on the Facility's Waste Analysis Plan. A compatibility test will be performed prior to storage in the Tank Farm. Compatibility with the tanks themselves, as well as material that is already in storage will be assessed prior to unloading. Based on the Quality Assurance/Quality Control results, waste profile, and data, the Facility will determine if the waste can be added to a partially full AST, if the waste needs to be stored in an empty AST, or if the material is not suitable for use as a fuel.

Treatment and bulking will be performed in the tanks by mixing together compatible materials from different containers or tanks. The resultant mix will then be stored until shipment off-site for reuse or disposal.

The type of wastes to be stored in the tanks are stainless steel compatible liquids which may be combustible, ignitable, chlorinated solvents, contaminated waste waters (hazardous by characteristics or by mixture rule), or other compatible materials. The operating temperature of the tanks is ambient, and the operating pressure is atmospheric. No reactive wastes will be stored in the tank farm.

All tanks will be closed-top which prevents wave, wind action, or precipitation-related overtopping from occurring. Level gauges and associated alarms will be provided on each tank, which will indicate the storage height of the materials in the tank. In order to prevent overfilling, tank levels will be checked prior to filling by the gauges provided and correlated with the amount to be pumped in from the bulk containers and bulk tankers. An operator trained in the operation will always be present during unloading or loading of bulk shipments.

2.2.4 Containment

All containers, while being loaded or unloaded, will be located within containment. Tanks will be located within a secondary containment system that will be a totally contained vault system. The vault system will be a concrete diked area with sumps to collect any spilled materials. The concrete vault will be designed with capacity to hold the contents of the largest tank plus additional freeboard. The floor of the concrete vault will be gently sloped at a minimum of one percent toward the sumps. No drains will be located in the containment area. The concrete vault system will be coated with a two-part epoxy resin coating system. High-density polyethylene (HDPE) water stops will be used to seal the joints at the junction of the sides and floor of the diked area. Additionally, the entire concrete vault system will be underlined by an integral welded HDPE liner, impervious to most chemicals and provides another level of protection to the soils and ground water beneath the tanks and ancillary equipment.

All piping and ancillary equipment will be above ground and located within the concrete vault containment system.

2.2.5 Inspections

The Fernley Facility will conduct daily inspections of the Tank Farm and Containment Vault and comply with the requirement to detect a leak within 24 hours of a spill. A detailed visual inspection will be conducted daily with a written report kept on file. Any leaks, spills or signs of potential problems will be noted and immediately acted upon.

2.3 PROPOSED FACILITY EXPANSION OPERATIONS – UNIVERSAL WASTE LAMP TREATMENT UNIT

NAC 444.8458.2(g)

The Fernley Facility proposes to construct and operate a universal waste lamp treatment unit.

2.3.1 Design and Capacity

Lamps will be processed using a Balcan MP8000 or similar processing unit. The Balcan MP8000 is a Programmable Logic Controlled (PLC) fully enclosed electrically powered unit with a maximum capacity of 63,000 pounds per day (5,000 linear tubes per hour as well as other types of lamps). The MP8000 consists of three processing sections, an air filtration system, and a control cabinet.

2.3.2 Waste Characteristics

Mercury containing intact spent fluorescent lamps, mercury containing crushed lamps, and spent high intensity discharge lamps will be processed in the unit. Hazardous wastes generated from the treatment, including mercury-containing phosphor powder, are stored for no longer than 90 days before being sent to a hazardous waste facility authorized to accept such waste. Non-hazardous glass and metal components are sent offsite to a recycler or to non-hazardous disposal if recycling options are not available.

2.3.3 Process Description

Intact straight fluorescent lamps are fed onto a conveyor that transports them into the first section of the Balcan MPB000 to be crushed. The first section of the Balcan MPB000 is maintained under a slight negative pressure to minimize fugitive emissions. Lamps already crushed and non-linear intact lamps can be fed through a multi-purpose rumbler to separate scrap metals before the second stage. In the second stage, air is drawn through two parallel rumblers to remove mercury-bearing phosphor powder. In the third stage, magnetic separation is used to separate the end caps and glass. Air from each stage is directed through a baghouse to separate and collect the phosphor powder contaminated with mercury and then directed through an activated carbon bed to remove residual mercury before being released to ambient air.

2.3.4 Containment

Storage and treatment units will be located within an enclosed building on a reinforced concrete slab. Boundaries of the storage areas will be clearly marked. Separate storge areas will be maintained for broken/crushed spent fluorescent lamps and intact fluorescent lamps. Broken/crushed lamps will be containerized while intact lamps will be stored in closed carboard boxes on pallets. Each storage area may also be used to store hazardous wastes generated while processing lamps.

2.3.5 Inspections

The Fernley Facility will conduct daily visual inspections of the universal waste lamp treatment unit and storage areas with a written report kept on file. Any spills or signs of potential problems will be noted and immediately acted upon.

2.4 PROPOSED FACILITY EXPANSION OPERATIONS – 10-DAY TRANSFER FACILITY

NAC 444.8458.2(g)

The Fernley Facility also proposes to construct and operate a 10-day Transfer Facility at the Site. Except as noted below for VOC content, waste streams managed at the Site will be the same as waste currently managed at the Fernley Facility. Wastes currently managed at the Fernley Facility include acids, alkalis, metal-bearing aqueous liquids and sludges, cyanides, batteries, and household hazardous wastes. All received wastes have a TOC content of less than 10% by weight; however, after the expansion the Facility may receive waste with VOC content greater than 500 ppmw. The Fernley Facility will not accept any waste that is radioactive, explosive (other than consumer fireworks), infectious, or that contains PCB greater than 50 ppmw. A list of waste codes accepted at the Fernley Facility is included as *Appendix B*. The 10-day Transfer Facility will be located within the confines of the fenced area within the hazardous waste permit Facility boundary.

Hazardous waste is received at the Facility in containers appropriate for shipping in accordance with United States Department of Transportation (U.S. DOT) rules. All containers must comply with 49 CFR, Part 178. Containers accepted at the 10-day Transfer Facility will be placed in appropriate storage areas

based upon waste type. All drummed containers will be stored on pallets. All containers in the storage facility will be closed except to add to, or remove from, the contents of the container.

It will be the policy of the Facility to train personnel in the following container handling procedures for the container storage areas. All affected employees involved in material and container handling are trained in material handling precautions and procedures during their initial 40-hour HAZWOPER training and each year during the 8-hour HAZWOPER Refresher.

2.4.1 Containment

10-day Transfer Facility storage will be conducted on paved concrete areas with adequate secondary containment to prevent a release to the environment. Trucks will not be unloaded in the 10-day Transfer Facility; therefore, the likelihood of a spill or release is minimal. Any potential for spills or signs of potential leaks will be noted and immediately addressed.

2.4.2 Inspections

Weekly inspection of the structure is performed to check for cracks and deterioration. Containers in the 10-day Transfer Facility storage will be inspected daily for signs of leaks or deterioration. The presence of liquid in the container storage area will result in immediate investigation of the source. Based on the labeling on the leaking container, the material will be identified. At the same time, containment and cleanup will be initiated. The container will be removed from storage and placed in a clean empty overpack container. Absorbent material used to clean up any leakage. A drum vacuum is also available for removal of liquids. The material will be emptied into a container, vac truck, tanker, or a tank which will be labeled or marked according to the source of the spill, and subsequently managed by an appropriate treatment or disposal method.

3. NEVADA ADMINISTRATIVE CODE REQUIREMENTS

This section addresses requirements for a Certificate of Designation required by *NAC 444.8458.2*.

3.1 TRANSPORTATION

NAC 444.8458.2(a)(1)

Vehicles transporting waste to and from the Fernley Facility primarily utilize Interstate 80 (I-80). Eastbound and westbound traffic use Exit 48 from I-80 to turn south onto State Highway 95A. Approximately 0.3 miles from I-80, vehicles turn east onto Newlands Drive East. The Fernley Facility is located approximately one-mile east of the 95A intersection on the south side of Newlands Drive East (see *Figure 3-1, Facility Access Routes*). Estimated traffic volume and road classifications for access routes to the Facility are summarized in Table 3-1. Estimated traffic volume obtained from Nevada Department of Transportation (NDOT) 2023 Annual Traffic Report for Lyon County and included as *Appendix C*.

Table 3-1
Volumes and Road Classification for Access Routes and Adjacent Roadways

Road	Station	Segment/Station Location	Estimated Volume (vehicles/day)	Classification
Interstate 80	0190037 0190039 0190040 0190041	Interstate 80, West/East Bound On and Off Ramps of The East Fernley Interchange (Exit 48)	14,950[(a)]	Principal Arterial
Highway 95A	190036	Highway 95A, 360-feet Sout of Chisholm Trail	25,800[(a)]	Rural Arterial
Newlands Drive East	190027	Newlands Drive Easy, 940-Feet East of Lyon Drive at Railroad Crossing	1,100[(a)]	Rural Collector

[(a)] Data from 2023 NDOT Annual Traffic Report for Lyon County.

Peak periods of incoming and outgoing transportation activity currently occur during the hours of 10:00 to 11:00 am and 3:00 to 5:00 pm. The hazardous materials transportation requirements of 49 CFR will be followed for transporting any wastes or other equipment or materials on or off-site.

Hazardous waste transported to and from the Fernley Facility will only be performed by transporters meeting the requirements of 40 CFR Part 236, Standards Applicable to Transporters of Hazardous Waste which includes transporting with a United States Environmental Protection Agency (U.S. EPA) identification number, compliance with manifest systems and recordkeeping, and response to hazardous waste discharges. All hazardous waste received at the Fernley Facility must be transported in containers appropriate for shipping in accordance with U.S. DOT transportation regulations. In the event of an accident the transporter must take appropriate immediate action to protect human health and the environment including notifying local authorities, diking the discharge area, and discharge cleanup. Based on the routes to the Facility, transporter requirements, and container requirements, the risk of accident resulting in a release to the environment is low.

3.2 SPILLS, DISCHARGE, FIRE, FAILURE OF EQUIPMENT, AND OTHER EMERGENCIES

NAC 444.8458.2(a)(2)

All tank systems will meet the requirements of the National Fire Protection Association (NFPA). Protective distances will be maintained between waste management areas and public roadways, streets, alleys, and adjoining property. All container storage areas will be located at least 50-feet from the property line. All waste management activities at the Fernley Facility and proposed Facility expansion will be conducted on paved or concrete areas with adequate secondary containment designed to contain any spills and to prevent run-on and run-off of stormwater. Routine inspections of tanks, secondary containment, emergency equipment and alarms are performed by the Facility to prevent failure. In the event of a fire, natural disaster, or unplanned, sudden, or non-sudden release of hazardous wastes or hazardous waste constituents to air, soil or surface water, the Fernley Facility will implement the Facility's Contingency Plan, *Appendix D*. The objective of the Contingency Plan is to minimize and prevent hazards to public health or the environment from spills, leaks, fires, and explosions. The Fernley Facility Contingency Plan will be updated to include expanded operations described in Section 2 of this application prior to commencement of operations. Based on implemented NFPA requirements, adequate secondary containment, routine inspections, and implementation of the Contingency Plan, it is unlikely that a spill, discharge, fire, failure of equipment, or other emergencies would result in a release to the environment.

3.2.1 Notification

The Fernley Facility will report any reportable spill or leak from the tank systems or secondary containments to the Director of NDEP. A leak of material weighing less than one pound that is immediately cleaned up need not be reported. Reporting is not required for releases that are contained within a secondary containment system. Notification procedures are found in the Fernley Facility Contingency Plan, *Appendix D*.

3.2.2 Migration and Control

In the event of a release to the environment, the Fernley Facility will initiate measures to control and prevent the migration of hazardous materials. All operations personnel receive training in the containment and control procedures. Procedures to contain releases of hazardous materials are described in Section 6 of the Contingency Plan, *Appendix D*. The Fernley Facility Contingency Plan will be revised to include the proposed expanded operations and employees will be retrained on any changes to the plan.

3.2.3 Clean up and Management of Released Waste and Contaminated Materials

Clean-up of released hazardous waste and associated contaminated materials will be initiated once containment and control of the substance have been achieved. Released hazardous wastes and contaminated media will be treated as hazardous waste. Contaminated personal protective equipment (PPE) and other equipment will be disposed of as hazardous wastes or decontaminated and reused.

3.2.4 Restoration of Impacted Areas

Impacted areas will be monitored or sampled after a release. Response activities will be determined based on the level of contamination in the impacted area.

3.3 EXPOSURE TO PERSONS OF HAZARDOUS WASTE OR PRODUCTS OF THE DEGRADATION OF HAZARDOUS WASTE

NAC 444.8458.2(a)(3)

Waste management systems at the Fernley Facility are designed to reduce air emissions and minimize exposure of personnel to airborne contaminants. Wastes are stored in closed-roof tanks and sealed containers. Air emissions from fuel blending tank storage, loading, and unloading as well as from processing of universal waste lamps will be controlled using air pollution control equipment. Additionally, employees performing waste handling and transfer operations are directed to wear the appropriate PPE to reduce exposure to airborne contaminants.

To further protect employees from potential exposure to toxic air contaminants, continuous air monitors are installed at various locations in the Fernly Facility. Additional continuous air monitors will be installed for the Facility expansion to protect employee health.

Endangerment to public health is avoided through safe working practices to prevent releases of hazardous material to the environment. In the event of a reportable release of hazardous materials to the environment, the Fernley Facility Contingency Plan will be implemented. The Contingency Plan details notification, mitigation, evacuation, control, and clean-up procedures. The Fernley Facility Contingency Plan will be revised to include expanded operations described in Section 2 of this application prior to commencement of operations of the Fernley Facility expansion.

3.4 LOCAL AND REGIONAL PLANS AND REGULATIONS FOR THE USE OF LAND

NAC 444.84.58.2(a)(4)

The Fernley Facility and proposed expansion are located in an area zoned Industrial by the City of Fernley.

3.5 PROTECTION OF THE PUBLIC FROM ADVERSE EFFECTS

NAC 444.8458.2(a)(5)

The protection of the public from adverse effects, including the economic and environmental effects from the construction and operation, and care after closure, of the Facility are discussed in this section.

3.5.1 Prevention of Degradation to Groundwater and Surface Water Quality

All waste management activities at the Fernley Facility and proposed Facility expansion will be conducted on paved or concrete containment areas designed to contain any spills and to prevent run-on and run-off of stormwater. Contact and non-contact stormwater falling on impervious surfaces will drain to solar evaporation ponds or will be collected in blind sumps. Residual sludges from evaporation ponds will be treated as hazardous waste.

Specific operating procedures will be enacted to prevent overfilling of tanks and spillage during transfers to and from fuel blending tanks. Additionally, fuel blending tanks and secondary containment will be equipped with automated controls to prevent tank overfilling. See Section 2.2.4 and Section 2.3.1 for a description of containment for the Fuel Tank Farm and 10-day Transfer Facility.

3.5.2 Prevention of Degradation of Air Quality

Degradation to air quality is prevented through the use of air pollution control equipment and management practices. Air pollution control equipment for current Fernley Facility operations is described in Section 4.2.7, Controls Systems for Air Emissions from Tank Systems of the Fernley Facility's RCRA Permit Renewal Application dated June 24, 2024.

All outdoor storage activities will be conducted to minimize dust. Organic containers will remain closed except when sampling in accordance with 40 CFR 264.173 and to minimize the volatilization of organics.

The Fernley Facility maintains an Air Quality Operating permit for applicable units. The Fernley Facility will submit an Air Quality Operating permit modification application prior to operation of the Facility expansion for any changes in air emission sources at the Facility. Systems and equipment are included in the Fernley Facility preventive maintenance program, which specifies intervals for monitoring, inspection, testing, and cleaning, as well as maintenance procedures and will be updated for expanded operations.

3.5.3 Prevention of Destruction or Impairment of Flora and Fauna

Destruction or impairment to flora and fauna is prevented through safe handling of hazardous materials. A six-foot chain-link fence will surround the Facility expansion and create a barrier to wildlife. All waste management activities will be conducted on paved or concrete portions of the Facility. Run-on and run-off from the Facility will be prevented by berms. Contact stormwater will drain to solar evaporation ponds or will be collected in blind sumps. In the event of a release of hazardous materials to the environment, the Fernley Facility Contingency Plan, *Appendix D* will be implemented to control and mitigate any release.

3.5.4 Prevention of Excessive Noise

The generation of excessive noise is not anticipated at the Fernley Facility except for during construction of the Facility expansion. Construction noise is anticipated to be typical for a construction site. Operation of the Fernley Facility generates routine noise associated with equipment operation (primarily during regular working hours) and truck traffic (primarily during peak traffic periods on weekdays, approximately 7:00 a.m. to 10:00 a.m. and 2:30 p.m. to 4:30 p.m.). Short-term noise may also be created by the activation of emergency alarms. These impacts will be confined largely to on-site areas and are not expected to be excessive relative to existing background noise levels.

3.5.5 Prevention of Negative Aesthetic Impacts

The scale and appearance of the facilities are in keeping with the nature of surrounding conditions. Structures will be warehouse-style prefabricated metal buildings, manufactured in neutral colors to reduce glare.

3.5.6 Prevention of Soil Instability

The Fernley Facility and Facility expansion are located in areas of relatively flat topography. The existence of paved surfaces at the current Facility contributes to erosion control methods. Roadways, parking, and treatment areas at the Facility expansion will be paved to reduce soil erosion. New waste management areas will be designed to prevent run-on or run-off. Run-on and run-off from the Facility expansion will be prevented by berms. Contact stormwater will drain to solar evaporation ponds or will be collected in blind sumps to prevent erosion.

3.5.7 Prevention of Adverse Effects After Closure

The Fernley Facility Closure Plan describes the procedures that the Fernley Facility will follow to close existing and planned hazardous waste management units. The closure plan will be updated to include additional hazardous waste management units constructed with this project prior to operation of the Facility expansion. Closure activities will be performed in accordance with 40 CFR 264 Subparts G and H. Closure requirements for waste piles, surface impoundments, land treatment, landfills, or incinerators do not apply to the Fernley Facility.

The closure cost estimate will be updated as necessary when new waste management units are constructed, or when existing waste management units are closed. The closure cost estimate will also be updated when regulations or regulatory guidance dictate new closure requirements that may affect the cost of closing the Facility.

The Fernley Facility Closure Plan contains the following:

- Facility Description;
- Closure Performance Standards;
- Maximum Waste Inventory;
- Closure Schedule; and
- Closure Activities (including inventory elimination, decontamination procedures, and sampling and analysis).

3.5.8 Prevention of Economic Impacts

The Fernley Facility and proposed expansion prevents economic impacts to the public by operating in an area zoned Industrial by the City of Fernley, operating under required RCRA permitting and compliance regulations, preventing adverse environmental effects as discussed in this section, and maintaining a Facility Closure Plan and appropriate bonding based on the cost to close the Facility.

3.6 PUBLIC AND PRIVATE SOURCES OF DRINKING WATER

NAC 444.8458.2(a)(6)

The Fernley Facility and proposed expansion are located in the Fernley Basin hydrological area, a subbasin of the Truckee River Basin.[1,2] The Fernley Basin is approximately 161-acres in area.[2] Perched groundwater occurs on the site at a depth of approximately 25-feet below ground surface (bgs).[3] Perched groundwater extends to a depth of approximately 250-feet bgs. A thick clay layer is present at a depth of approximately 250 to 325-feet bgs. This clay layer ranges in thickness from 20 to 30-feet and acts as a confining layer for the underlying groundwater. The Fernley aquifer, a regional aquifer, occurs below this clay layer. The Fernley aquifer is a primary-source aquifer, serving as the only source of drinking water for the nearby population. Wells are known to exist in the area that draw from the perched groundwater.

The groundwater gradient in the immediate vicinity of the Facility is anticipated to be toward the northeast while the gradient near the center of the City of Fernley is regarded as toward the northwest. The average total annual precipitation for Reno, the closest major city, between 2007 and 2019 was 7.40-inches.

Based on the relatively flat topography of the Site, distance from the Site to floodplains, and Facility best management practices to prevent the degradation of groundwater discussed in Section 3.5.1, Prevention of Degradation to Groundwater, it is unlikely that activities at the Facility would affect nearby drinking water sources.

[1]Nevada Division of Water Resources, Report 57, "A Brief Water-Resources Appraisal of the Truckee River Basin, Western Nevada," 1973

[2]Kramer, Kurt. Utilities Manager, Fernley Utilities District, letter to L.H. Dodigon, NDEP, re: need for wellhead protection program, May 17,1991

[3]Geoffroy, Michael A., Technical Director, Eticam, letter to Joe Levak, NDEP, re: groundwater monitoring, March 26, 1987

3.7 ENVIRONMENTALLY SENSITIVE AREAS

The risk and effect of the Facility concerning scenic, historic, recreational areas, wetlands, floodplains, wildlife areas and other areas that are environmentally sensitive are discussed in this section per requirements of *NAC 444.8458(a)(7).*

3.7.1 Scenic Areas

NAC 444.8458(a)(7)

The Site does not affect any rivers designated under the Wild and Scenic Rivers Act or scenic byways, *see Figure 3-2, Land Use Map*.

3.7.2 Historic Areas

NAC 444.8458(a)(7)

The Site is neither listed nor eligible for listing on the national or local Registers of Historic Places, *See Appendix E*.

3.7.3 Recreational Areas

NAC 444.8458(a)(7)

There are no recreational areas located in the vicinity of the Site, *see Figure 3-2, Land Use Map*.

3.7.4 Wetlands and Surface Waters

NAC 444.8456.1(a)(6); NAC 444.8458(a)(7)

U.S. Fish and Wildlife Service (U.S. FWS) National Wetland Inventory (NWI) maps did not identify any estuarine and marine wetlands, estuarine or marine deepwater, freshwater emergent wetlands, freshwater forested/shrub wetlands, freshwater ponds, lakes, or riverine areas that would be affected by the Fernley Facility expansion. NWI maps used to evaluate potential impacts to wetlands and surface waters are included as *Figure 3-3, National Wetlands Inventory Map.*

3.7.5 Floodplains

NAC 444.8458(a)(7)

The Site is located in an area designated Zone X, “area of minimal flood hazard” and outside both the 100-year and 500-year floodplains, as indicated in the most recent Flood Insurance Rate Map of the Federal

Emergency Management Agency, County Panel No. 32019C0105E dated January 16, 2009 (*Figure 3-4, FEMA Floodplain Map*).

3.7.6 Wildlife Areas

NAC 444.8456.1(a)(4); NAC 444.8458.2(a)(7)

Review of information provided by the Nevada Department of Wildlife (NDOW) indicates that the Site is not located within a wildlife management area. The nearest wildlife management area is the Fernley Wildlife Management Area which is located approximately 0.5-miles southeast of the Fernley Facility. Approximately 95-acres of the Fernley Wildlife Management Area is located within a one-mile radius of the Fernley Facility. NDOW wildlife management area map used to evaluate potential project impacts to wildlife areas is included as *Figure 3-5, NDOW Wildlife Areas Map*.

3.8 POPULATION DENSITY

NAC 444.8458.2(b)

The Fernley Facility and Facility expansion are located in Fernley, Lyon County, Nevada in an area zoned Industrial by the City of Fernley. Fernley, Nevada has a population of 22,895 based on the 2020 United States Census. The population within 1-mile of the Site is 1,260 based on the U.S. EPA Environmental Justice Screen (EJScreen) Community Report for the Site and included as *Appendix F, EJScreen Report*. Adjacent properties to the Fernley Facility are industrial. Residential areas are located approximately 0.75-miles south, one-mile west, and one-mile southwest of the Fernley Facility. Areas to the north and east of the Facility are industrial with undeveloped land beyond.

3.9 PUBLIC BENEFITS OF PROPOSED FACILITY

NAC 444.8458.2(c)(1),(2),(3)

Increased capacity at the Fernley Facility with the addition of the 10-day Transfer Facility and fuel blending unit will address the increased demand in hazardous waste treatment, disposal, and storage in Nevada.

The expansion of the Fernley Facility will create economic benefits for the public including the creation of approximately 20 full-time jobs for the operation of the Facility expansion in addition to temporary jobs and local construction contracts for the construction of the Facility expansion.

Blended fuels from the fuel blending unit will be sold to cement kiln facilities. Blended fuels will displace usage of coal in cement kiln operations and waste liquids that could not otherwise be treated for reuse at the Fernley Facility and would otherwise be treated and landfilled.

3.10 ALTERNATE SITE OR METHODS FOR THE MANAGEMENT OF HAZARDOUS WASTE

NAC 444.8458.2(d)

The expansion of the Fernley Facility will allow for the increased capacity for treatment and storage of hazardous waste at a facility that has established hazardous waste management practices and regulatory compliance. An alternative site location would need to be a new, standalone facility and would not reduce hazardous waste management methods as effectively as expanding an existing facility that is already approved to treat and store hazardous waste.

3.11 QUALIFICATION TO MANAGE HAZARDOUS WASTE

NAC 444.8458.2(e)

The Fernley Facility operates under RCRA Permit Number NEVHW0033 effective December 19, 2019 (renewal application submitted to NDEP of June 24, 2024). 21EMN will apply for and obtain a permit modification prior to operation of the Facility expansion.

4. FACILITY SITING REQUIREMENTS

This section addresses facility siting requirements listed in *NAC 444.8456*

4.1 DWELLINGS, SCHOOLS, CHURCHES, COMMUNITY CENTER, OR RESIDENTIAL USE AREAS

NAC 444.8456.1(a)(1); NAC 444.8456.1(a)(2)

The Site is not located within a one-mile radius of any schools, churches, or community centers based on review of the City of Fernley Street Map obtained from the City of Fernley. A copy of the City of Fernley Street Map is included as *Figure 4-1* and includes Site boundaries and one-mile radius from the Site. A residential neighborhood is located approximately 0.7-miles south of the Site across United States Highway (U.S. Hwy) 50 East.

The Fernley Facility will prevent discharge to the environment as discussed in Section 3.2 and Section 3.3 of this application. Based on the relatively flat topography of the Site, distance from the Site to residential areas, and Facility best management practices to protect the environment from adverse environmental effects, it is unlikely that activities at the Site would affect nearby residential areas.

4.2 PUBLIC PARKS

NAC 444.8456.1(a)(3)

The Site is not located within a one-mile radius of any public parks based on review of the City of Fernley Street Map obtained from the City of Fernley. A copy of the City of Fernley Street Map is included as *Figure 4-1* and includes Site boundaries and a one-mile radius from the Site.

4.3 WILDLIFE MANAGEMENT AREAS

NAC 444.8456.1(a)(4)

Wildlife Management Areas in the vicinity of the Site are discussed in Section 3.7.6.

4.4 WILDLIFE KEY, THREATENED, AND ENDANGERED SPECIES HABITATS

NAC 444.8456.1(a)(5)

An official species list for the Site provided by the United States Fish and Wildlife Service (see *Appendix G*) did not identify any critical habitats (Key, Threatened, or Endangered) within one mile of the Site.

4.5 SURFACE WATERS AND WETLANDS

NAC 444.8456.1(a)(6)

The U.S. FWS NWI identified freshwater forested/shrub wetlands, and two freshwater ponds within one mile of the Site. Freshwater forested/shrub wetlands are located approximately 0.5-miles southeast of the Site. The two freshwater ponds are located approximately 0.8-miles west and northeast of the Site. The Fernley Facility will prevent degradation to groundwater and surface water quality as discussed in Section 3.3.1. Based on the relatively flat topography of the Site, distance from the Site to wetlands and surface waters, and Fernley Facility best management practices to prevent degradation to groundwater and surface water quality, it is unlikely that activities at the Site would affect nearby wetlands or surface waters. NWI maps used to evaluate potential project impacts to wetlands and surface waters are included as *Figure 3-3, National Wetlands Inventory Map*.

4.6 NATURAL OR MAN-MADE GEOLOGICAL HAZARDS

NAC 444.8456.1(a)(7)

There are no faults, nor is there evidence of Holocene displacement within 200 feet of the Site that would create a geological hazard. *Figure 4-2, Quaternary Fault Map* shows the location of Holocene displacements in Lyon and Storey Counties and the location of the Fernley Facility. No man-made geological hazards are known to be located within one mile of the Site.

Per U.S. EPA guidance RO13505, the existing chromium plume would not be considered ‘an artificially created geological hazard’. If a proposed storage area is to be located above the chromium plume, an evaluation will be performed to determine if operational controls would be sufficient to demonstrate protection of human health and the environment or if mitigation is necessary.

4.7 PUBLIC DRINKING WATER WELLS

NAC 444.8456.1(a)(8)

The Fernley aquifer is a primary-source aquifer, serving as the only source of drinking water for the nearby population. Wells are known to exist in the area that draw from the perched groundwater. Public drinking water wells are discussed further in Section 3.6.

4.8 HISTORICAL OR ARCHEOLOGICAL SITES

NAC 444.8456.1(b)

Review of information from the Nevada State Historic Preservation Office (NSHPO) indicates that there are no historical places or archeological sites within one-mile of the Site. NSHPO information reviewed is included as *Appendix E, NSHPO Historic Places*.

4.9 FLOODPLAIN REQUIREMENTS

NAC 444.8456.1(c)

Review of Flood Insurance Rate Maps for the Site vicinity included as *Figure 3-4, FEMA Floodplain Map* identified Special Flood Hazard Areas, Zone A approximately 0.2-miles south of the Site. Special Flood Hazard Areas, Zone A have no base flood elevation determined but have a one-percent annual chance of flooding.

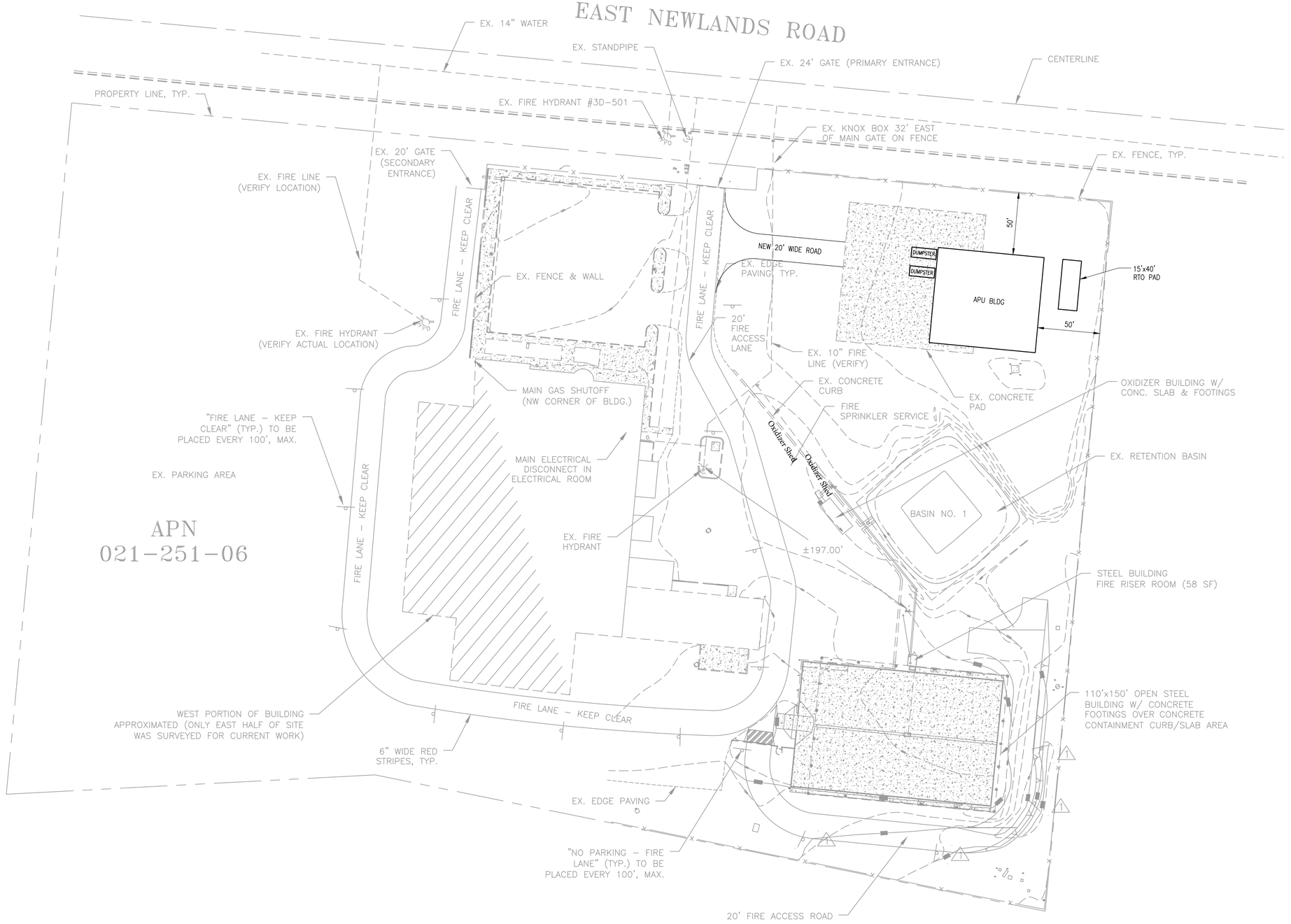
The Facility will prevent discharge to the environment as discussed in Section 3.2 and Section 3.3 of this application. Based on the relatively flat topography of the Site, distance from the Site to floodplains, and Facility best management practices to protect the environment from adverse environmental effects, it is unlikely that activities at the Site would affect nearby floodplains.

4.10 WATER TABLE REQUIREMENTS

NAC 444.8456.1(d)

Historical water level data from Fernley Facility groundwater monitoring wells PF-1 through PF-6 collected from July 2005 through December 2011 at the Fernley Facility indicate that the water level at the Site approximately matches the regional water levels but are slightly deeper within a range of approximately 29 through 37 feet below ground surface (bgs) and fluctuates approximately from 0.5 to 1.0 feet seasonally.

FIGURES



GENERAL NOTES

1. NOT USED.

KEYED NOTES

(1) NOT USED.

SITE PLAN

SCALE: 1" = 40'

0 20' 40' 80'
1"=40'

ISSUED FOR REVIEW

Reference Drawings		Revisions					Revisions				
Drawing No	Title	Rev	Date	By	App	Description	Rev	Date	By	App	Description
		A	08/09/21	MEJ	BWW	ISSUED FOR REVIEW					
		B	11/03/21	MEJ	BWW	ISSUED FOR REVIEW					

CLEAN EARTH
2095 E. NEWLANDS ROAD
FERNLEY, NV 89408

SCALE:	AS NOTED
DRAWN:	MEJ
ENGINEER:	BWW
CHECKED:	BWW
PROJ MGR:	BWW
APPROVED:	BWW
DATE:	08/09/21

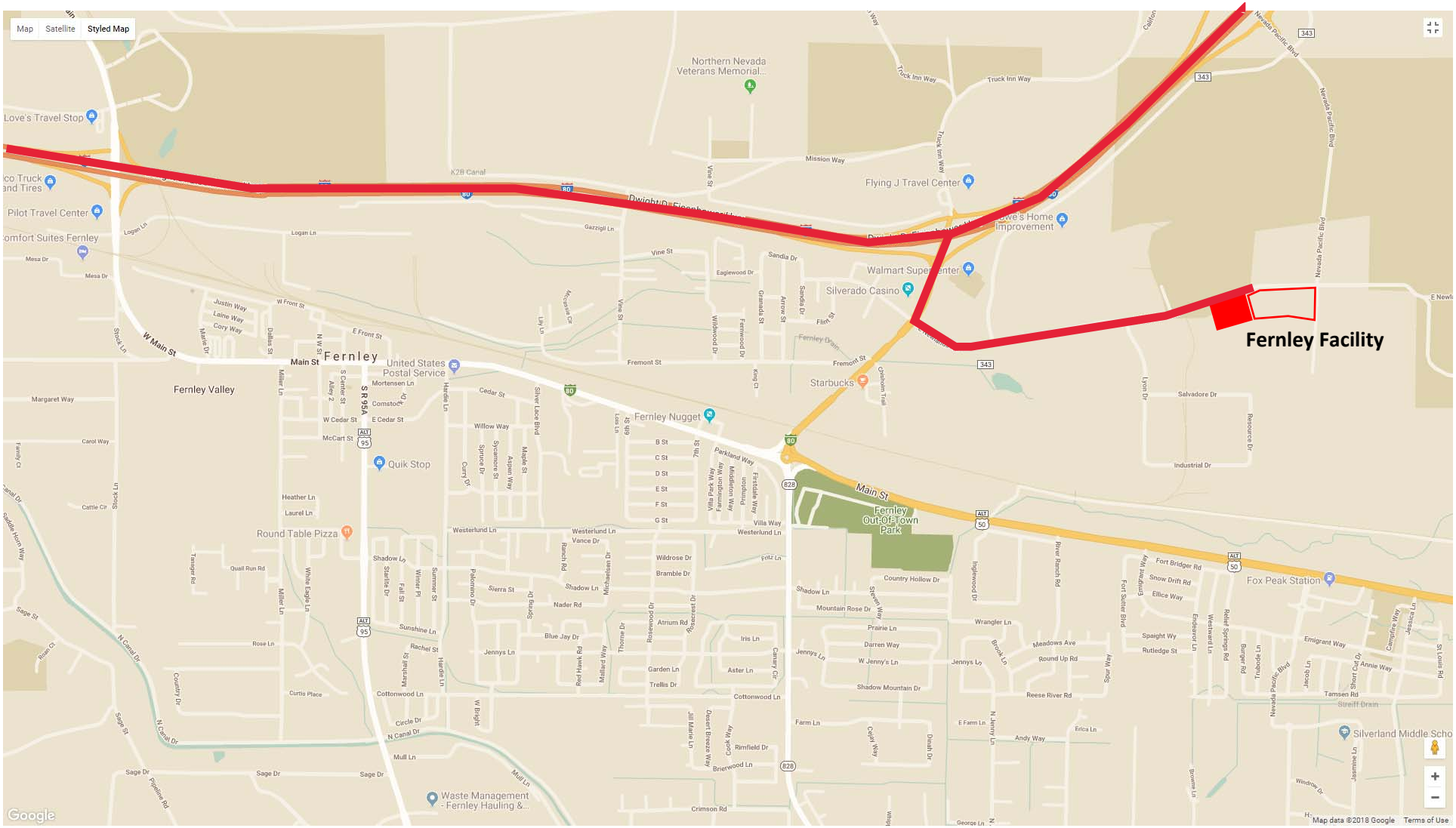
HARRIS GROUP
harrisgroup.com

CIVIL
SITE PLAN

AEROSOL CAN RECYCLING BUILDING

PROJECT NO: 31243
SHEET NO: Figure 2-2
REV: B

FILE LOCATION: C:\Users\mjames\Desktop\Temp\Clean Earth\31243 - Aerosol Can Recycling\Drawings\Xref\Gen\GA-N-Base.dwg
BY: James, Eric
PLOT DATE: 11/3/21

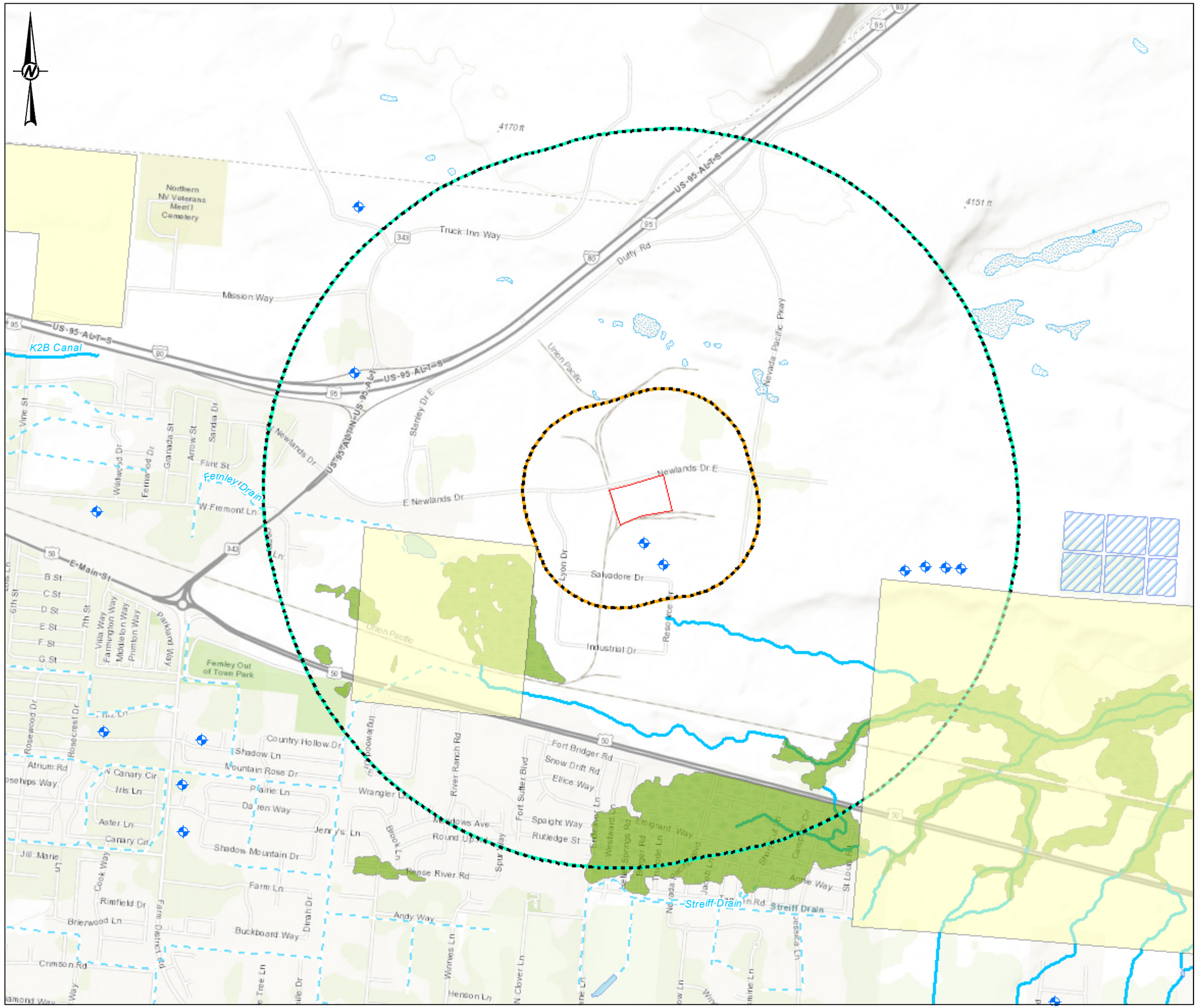


CleanEarth

Figure 3-1: Facility Access Routes

Access Roads

21EMN, LLC
2185 Newlands Dive East
Fernley, NV 89408



LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- 1/4-MILE RADIUS
- 1-MILE RADIUS
- NDWR MONITORING WELL
- USGS MONITORING WELL
- SPRING
- POND
- PLAYA
- RESERVOIR
- MARSH
- CANAL/DITCH
- STREAM

LAND USE

- BUREAU OF RECLAMATION
- PRIVATE

Figure 3-2: Land Use Map

0 1,500 3,000

1 " = 1,500.00 feet Feet

NOTE(S)

REFERENCE(S)

COORDINATE SYSTEM: NAD 1983 STATEPLANE ARIZONA CENTRAL FIPS 0202 FEET
WATERBODIES AND STREAMS: NATIONAL HYDROGRAPHY DATASET (NHD), USGS.
SERVICE LAYER CREDITS: SOURCES: ESRI, HERE, GARMIN, INTERMAP, INCREMENT P CORP., GEBCO, USGS, FAO, NPS, NRCAN, GEOBASE, IGN, KADASTER NL, ORDNANCE SURVEY, ESRI JAPAN, METI, ESRI CHINA (HONG KONG), SWISSTOPO, © OPENSTREETMAP CONTRIBUTORS, AND THE GIS USER COMMUNITY

CLIENT
STERICYCLE, INC.

PROJECT
2095 NEWLANDS DRIVE EAST
FERNLEY, NEVADA

TITLE
ADJACENT LAND USE

CONSULTANT
GOLDER

YYYY-MM-DD	2018-05-03
DESIGNED	DZF
PREPARED	DZF
REVIEWED	RD
APPROVED	####

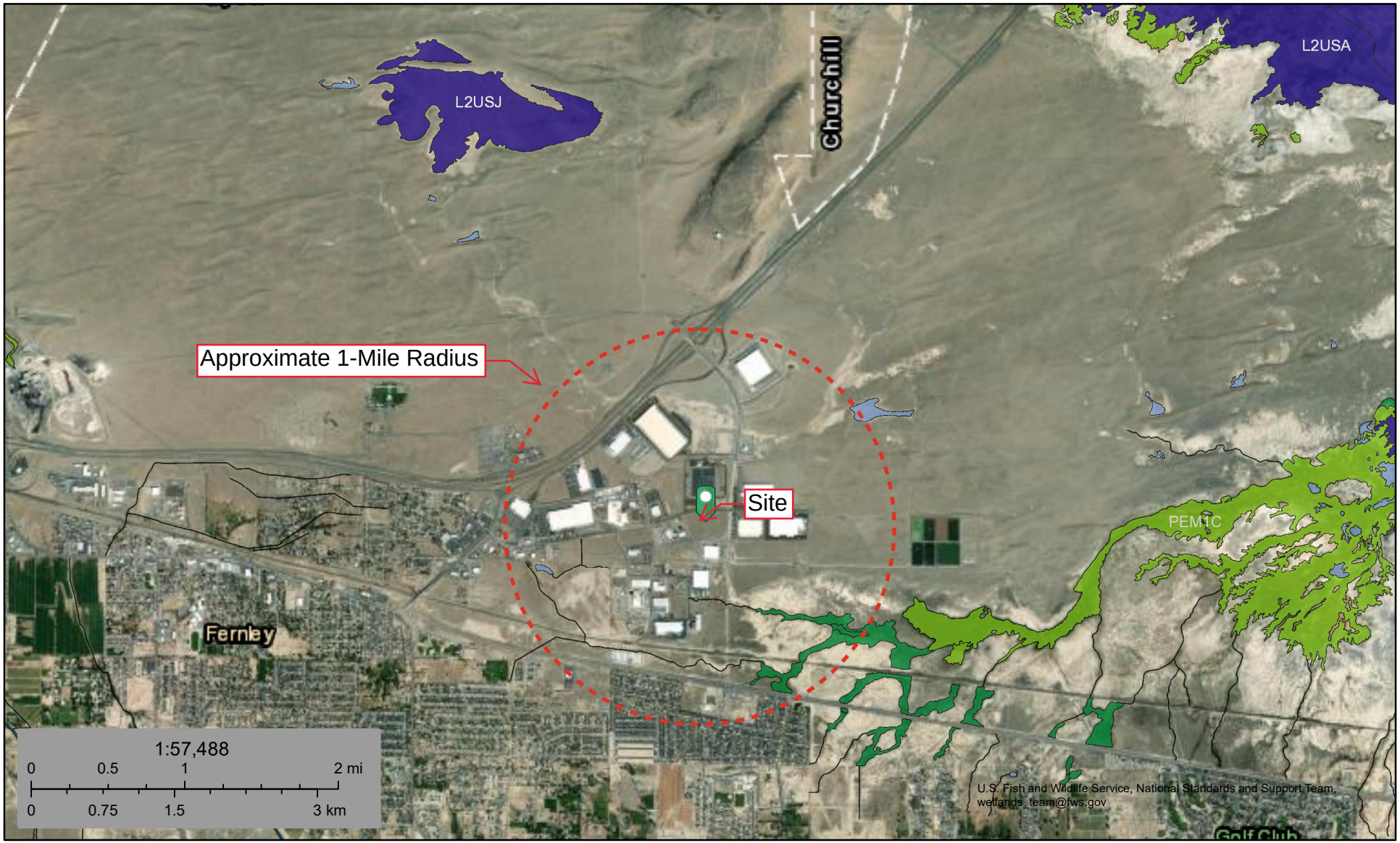
PROJECT NO.	CONTROL	REV.	FIGURE
18101487	--	--	B2-2

PATH: L:\Sterilcycle\Maps\Project_18101487\Figure B2-2 Adjacent Land Use Map.mxd PRINTED ON: 2018-05-03 AT: 3:00:04 PM

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

U.S. Fish and Wildlife Service
National Wetlands Inventory

2185 Newlands Drive East, Fernley, NV



July 17, 2024

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Figure 3-3 National Wetlands Inventory Map

National Wetlands Inventory (NWI)
This page was produced by the NWI mapper

Figure 3-4: FEMA Floodplain Map

NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The **community map repository** should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where **Base Flood Elevations** (BFEs) and/or **floodways** have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only landward of 0.0' North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by **flood control structures.** Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this jurisdiction.

The **projection** used in the preparation of this map was Universal Transverse Mercator (UTM) zone 11. The **horizontal datum** was NAD83, GRS1980 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same **vertical datum.** For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at http://www.ngs.noaa.gov/ or contact the National Geodetic Survey at the following address:

NGS Information Services
NOAA, N/NGS12
National Geodetic Survey
SSMC–3, #9202
1315 East–West Highway
Silver Spring, MD 20910–3282

To obtain current elevation, description, and/or location information for **bench marks** shown on this map, please contact the Information Services Branch of the National Geodetic Survey at **(301) 713–3242,** or visit its website at http://www.ngs.noaa.gov/.

Base map information shown on this FIRM was provided in digital format by the USDA National Agriculture Imagery Program (NAIP). This information was photogrammetrically compiled at a scale of 1:12,000 from aerial photography dated 2006.

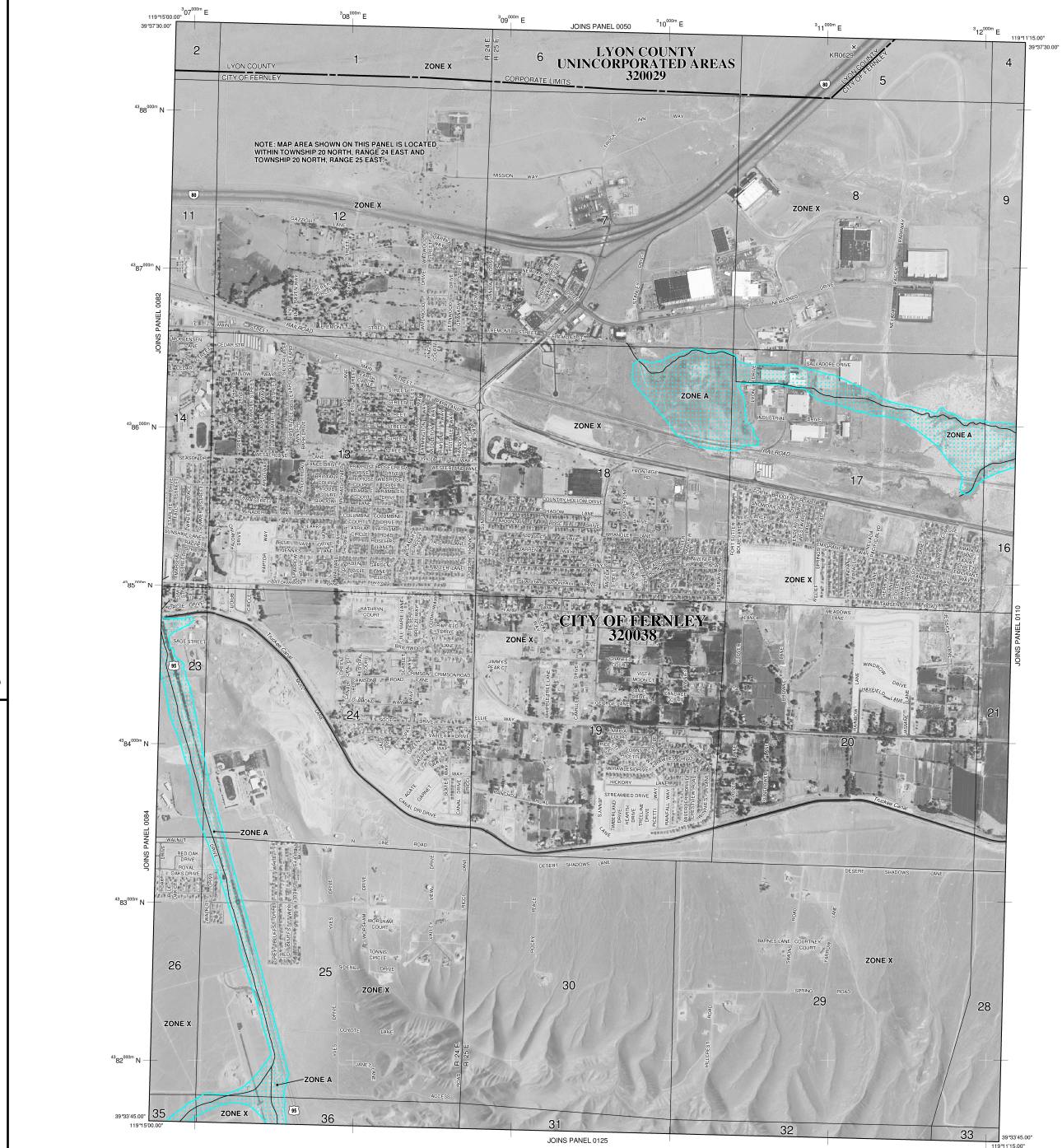
This map reflects more detailed and up–to–date **stream channel configurations** than those shown on the previous FIRM for this jurisdiction. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables *in the Flood Insurance Study report (which contains authoritative hydraulic data)* may reflect stream channel distances that differ from what is shown on this map.

Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de–annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed **Map Index** for an overview map of the county showing the layout of map panels; community map repository addresses; and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

Contact the **FEMA Map Service Center** at 1–800–358–9616 for information on available products associated with this FIRM. Available products may include previously issued Letters of Map Change, *a Flood Insurance Study report,* and/or digital versions of this map. The FEMA Map Service Center may also be reached by Fax at 1–800–358–9620 and its website at http://www.msc.fema.gov/.

If you have **questions about this map** or questions concerning the National Flood Insurance Program in general, please call **1–877–FEMA MAP**(1–877–336–2627) or visit the FEMA website at http://www.fema.gov/.



LEGEND

SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

ZONE A No Base Flood Elevations determined.

ZONE AE Base Flood Elevations determined.

ZONE AH Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.

ZONE AO Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.

ZONE AR Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.

ZONE A99 Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.

ZONE V Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.

ZONE VE Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

ZONE X Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS

ZONE X Areas determined to be outside the 0.2% annual chance floodplain.

ZONE D Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

1% annual chance floodplain boundary
0.2% annual chance floodplain boundary
Floodway boundary
Zone D boundary
CBRS and OPA boundary
Boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.
513 Base Flood Elevation line and value; elevation in feet*
(EL 987) Base Flood Elevation value where uniform within zone; elevation in feet*

* Referred to the North American Vertical Datum of 1988 (NAVD 88)

A — A Cross section line
23 — 23 Transect line
97°07'30", 32°22'30" Geographic coordinates referenced to the North American Datum of 1983 (NAD 83)
4275000mN 1000-meter Universal Transverse Mercator grid ticks, zone 11
6000000 M 5000-foot grid ticks: Nevada State Plane coordinate system, west zone (FIPSZONE 2703), Transverse Mercator
DX5510 Bench mark (see explanation in Notes to Users section of this FIRM panel)
M1.5 River Mile

MAP REPOSITORIES
Refer to Map Repositories list on Map Index

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP
January 16, 2009
EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1–800–638–6620.

MAP SCALE 1" = 1000'
500 0 1000 2000 FEET
300 0 300 600 METERS

NFIP
NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0105E

FIRM
FLOOD INSURANCE RATE MAP

LYON COUNTY, NEVADA
AND INCORPORATED AREAS

PANEL 105 OF 1375
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

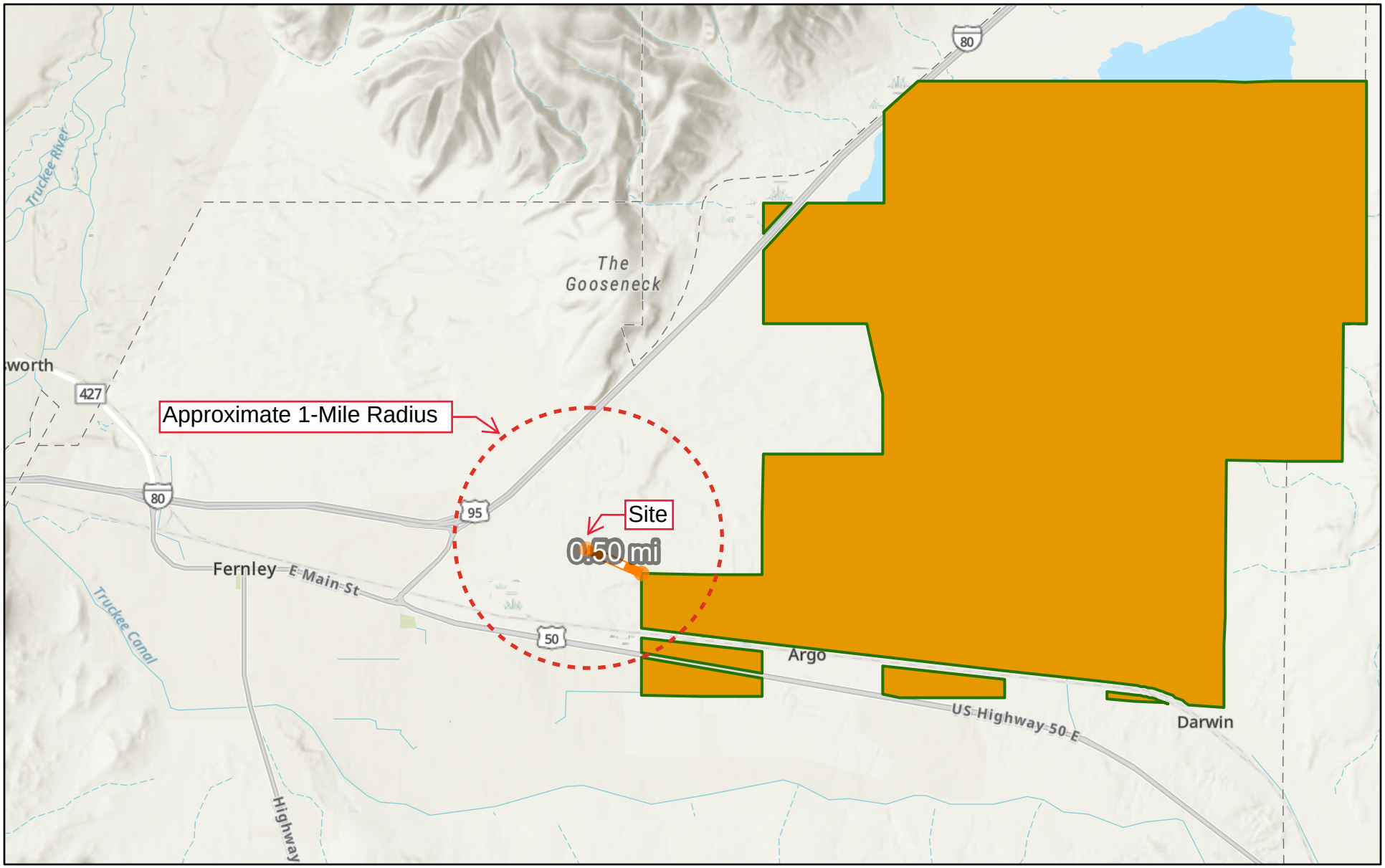
COMMUNITY	NUMBER	PANEL	SUFFIX
LYON COUNTY	320029	0105	E
FERNLEY, CITY OF	320038	0105	E

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
32019C0105E
EFFECTIVE DATE
JANUARY 16, 2009

Federal Emergency Management Agency

2185 Newlands Drive East



7/17/2024

NDOW Wildlife Management Areas

1:93,494

0 0.5 1 2 mi

0 1 2 4 km

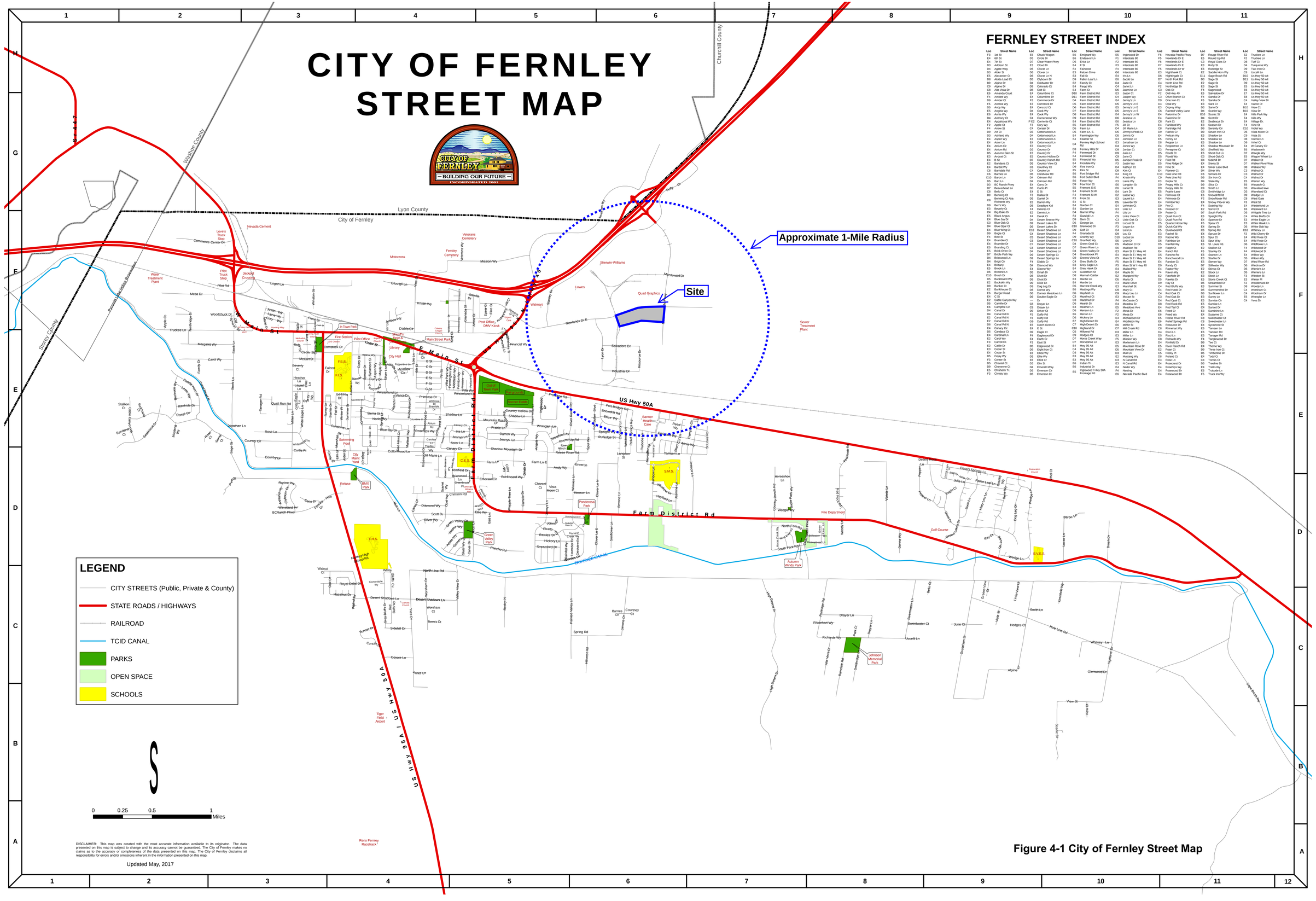
California State Parks, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, USDA,

Figure 3-5 NDOW Wildlife Areas Map

CITY OF FERNLEY STREET MAP

FERNLEY STREET INDEX

Loc	Street Name
F3	1st St
E4	6th St
E4	7th St
D3	Addison St
D4	Agate Way
D3	Alder St
E5	Alexander Ct
D8	Alicia Lead Ct
B9	Alpine Dr
C9	Alpine Dr
D6	Amanda Ct
E6	Amanda Court
F4	Ambee Wy
D9	Amber Ct
F5	Andrea Wy
D5	Andy Wy
E5	Angela Wy
E6	Anne Wy
D4	Anthony Ct
E4	Appaloosa Way
F2	Apple Ct
E4	Arch St
D9	Ash Ct
E4	Aspen Way
E4	Aspen Wy
E4	Aster Ln
E4	Atrium Cir
E4	Atrium Rd
D5	Autumn Glen St
E3	Avocet Ct
E4	B St
E2	Bandana Ct
E4	Bandit Wy
C8	Barndale Rd
D3	Baron Ln
D10	Baron Ln
D5	Bart Ln
D3	BC Ranch Pkwy
D7	Beaverhead Ln
C8	Bello Ct
B9	Benning Ct
C9	Benning Ct Aka Richards Wy
D9	Bern Wy
E3	Beverly Ct
F4	Big Horn Ct
E5	Black Angus
E4	Blue Jay Dr
C3	Blue Oak Ct
D4	Blue Opal Ct
E4	Blue Wing Ct
D9	Bogie Ct
E4	Bow St
E4	Bramble Ct
E4	Bramble Dr
E5	Brandng Ct
E5	Brick Oven Ct
D7	Bridle Path Wy
D7	Bridle Path Wy
D4	Brigr Ct
E4	Brittany
E5	Brook Ln
D6	Browne Ln
D10	Brush Dr
D5	Buckboard Wy
E2	Buckskin Wy
D9	Bunker Ct
E2	Burkhouse Ct
E6	Burger Road
E3	Cable Ct
E3	Cable Canyon Wy
D5	Camillo Dr
E6	Campfire Ct
D4	Canal Dr
D4	Canal Rd N
E2	Canal Rd N
D6	Canal Rd N
E4	Canary Ct
D5	Candace Ct
E3	Cardinal Ln
E2	Carol Wy
E3	Carter Ct
E2	Cattle Dr
E3	Cedar St
E6	Cedar St
D5	Cejay Wy
F3	Center St
D5	Chantel Ct
D9	Cheyenne Ct
E5	Chisholm Tr
F3	Christy Wy
E5	Chuck Wagon
D3	Circle Dr
D7	Clear Water Pkwy
E3	Cloud Dr
D5	Clover Ln
D6	Clover Ln
D6	Clover Ln N
D3	Clydesun Dr
D3	Coldwater Dr
D9	Colorado Ct
E4	Colt Ct
E6	Columbine Ct
E4	Columbine Dr
D4	Comet Dr
E3	Comstock Dr
E4	Concord Ct
D4	Cook Wy
D4	Cook Wy
C4	Cornerstone Wy
F E2	Cornerte Ct
F3	Cory Wy
C4	Corsair Dr
D3	Cottonwood Ln
D3	Cottonwood Ln
E3	Cottonwood Ln
E3	Cottonwood Ln
E3	Country Ct
D3	Country Dr
E3	Country Dr
E5	Country Hollow Dr
D7	Country Ranch Rd
D5	Country View Ct
D5	Courtney Ct
C4	Coyote Ln
C4	Crimson Rd
D6	Crimson Rd
D4	Crimson Rd
D4	Curry Dr
E3	Curtis Pl
D4	D St
F3	Dallas St
D5	Daniel Dr
E5	Darren Wy
D6	Deadbye Kid
F4	Delores Ct
D5	Dennis Ln
F4	Derek Ct
D4	Desert Breeze Wy
D7	Desert Lakes Dr
D9	Desert Lakes Dr
C4	Desert Shadows Ln
C5	Desert Shadows Ln
C5	Desert Shadows Ln
C7	Desert Shadows Ln
C8	Desert Shadows Ln
D6	Desert Shadows Ln
D9	Desert Springs Ct
D9	Desert Springs Ln
E4	Diablo Cir
D4	Diamond Wy
E4	Dianne Wy
D5	Dinah Dr
D8	Dixie Dr
D9	Divot Dr
D9	Dixie Ln
D9	Dog Leg Dr
D9	Donna Wy
D6	Donner Meadows Ln
D6	Double Eagle Ct
C8	Drayer Ln
C8	Drayer Ln
D9	Driver Ct
F5	Duffy Rd
F6	Duffy Rd
G6	Duffy Rd
E5	Dutch Oven Ct
E4	E St
D9	Eagle Ct
F4	Eaglewood Dr
D9	Earth Ct
E4	Earth Dr
D5	Edgewood Dr
D9	Eight Iron Ct
E6	Elice Wy
D5	Ellie Wy
E6	Elliot Ct
D3	Elm St
D4	Emerald Way
D5	Emerson Cir
D5	Emerson Ct
E5	Emigrant Wy
E6	Endeavor Ln
E6	Erica Ln
E4	F St
F4	Fairwood
E3	Falcon Drive
E3	Fall St
D9	Fallen Leaf Ln
D5	Family Ct
E4	Fargo Wy
E4	Farm Ct
D10	Farm District Rd
D11	Farm District Rd
E4	Farm District Rd
D5	Farm District Rd
D6	Farm District Rd
D7	Farm District Rd
D8	Farm District Rd
D9	Farm District Rd
E4	Farm District Rd
E5	Farm District Rd
F5	Farm Ln
E5	Farm Ln E
D5	Farmington Wy
E4	Feather St
D4	Fernley High School Rd
D3	Fernley Hills Dr
F4	Fernwood Dr
E5	Fernwood St
E4	Firestale Wy
E5	Five Iron Ct
F5	Flint Dr
E4	Flume Bridge Rd
E6	Fort Sutter Blvd
E6	Foster Wy
E4	Four Iron Ct
E5	Fremont St E
E4	Fremont St W
F4	Fremont St W
F3	Front St
E4	G St
E4	Garden Ct
E4	Garden Ln
E4	Gatehouse Wy
D4	Gem Dr
D9	George Ln
C10	Glenwood Dr
D9	Golf Ct
F4	Granada St
D9	Granby Wy
C10	Granfield Wy
D4	Green Opal Ct
D7	Green River Ln
D4	Green Valley Dr
D4	Greenbrook Pl
D4	Greenhorn Ct
E4	Grey Bluffs Dr
E3	Grey Eagle Ln
E4	Grey Hawk Dr
C9	Gustafson St
D6	Hannah Calder
E3	Hardie Ln
E4	Hardin Wy
D5	Harvest Creek Wy
E6	Hayfield Ln
D5	Hazelnut Dr
C3	Hazelnut Dr
D5	Hearth Dr
E3	Heather Ln
D5	Henson Ln
E4	Herron Ln
D5	Hickory Ln
B7	High Desert Dr
C7	High Desert Dr
C10	Highland Dr
C6	Hillcrest Rd
D9	Hodges Ct
E7	Horse Creek Way
E6	Horseshoe Ln
B4	Hwy 95 Alt
C4	Hwy 95 Alt
D3	Hwy 95 Alt
E3	Hwy 95 Alt
E6	Indian Tr
E5	Industrial Dr
E5	Inglewood / Hwy 50A Frontage Rd
E5	Inglewood Dr
E4	Iris Ln
E6	Jacob Ln
D4	Jade Ct
F2	Jarret Ln
E3	Jason Ct
E3	Jason Ct
D4	Jasper Wy
D4	Jenny's Ln
D5	Jenny's Ln E
D5	Jenny's Ln S
E4	Jenny's Ln W
D6	Jessica Ln
C8	Jessica Ln
F5	Jill Ct
D4	Jill Marie Ln
D5	Johnny's Peak Ct
D4	Jolly Ct
E3	Johnson Ln
D8	Jordan Ct
D8	Julia Ln
C9	June Ct
D5	Juniper Peak Ct
D5	Justin Wy
D3	Kathryn Ct
D8	Kim Ct
E4	Kirk Ct
E4	Kristin Wy
F3	Lane Wy
E6	Langdon St
E6	Lariat St
E5	Lark Dr
E2	Lasso Wy
E4	Laurel Ln
D5	Lavender Dr
E4	Lehman Ct
E6	Lilac Ln
E4	Lily Ln
C3	Links View Ct
C3	Links View Ct
E3	Locust St
F3	Logan Ln
E4	Lois Ln
D9	Lou Ct
C5	Lucas Ln
D8	Lyon Dr
D5	Madison Cir Dr
E6	Madison Rd
E4	Main St E / Hwy 40
E4	Main St E / Hwy 40
E4	Main St E / Hwy 40
E4	Main St E / Hwy 40
F3	Main St W / Hwy 40
E2	Mallard Wy
E4	Maple St
E3	Margaret Wy
D5	Maria Ct
E3	Marie Drive
E3	Marshall St
D9	Mary Ct
D9	Mary Lou Ln
E3	Mccann St
D4	McCassin Ct
E4	Meadow Ave
E6	Meadow Ave
F2	Mesa Dr
E4	Mesa Dr
E6	Michaelsen Dr
E4	Middleton Wy
E6	Mifflin St
D7	Mill Creek Rd
D3	Miller Ln
E3	Miller Ln
F5	Mission Wy
E6	Mountain Dr
E5	Mountain Dr E
D5	Mountain View Dr
E2	Mull Ln
E2	Mustang Wy
E3	N Canal Rd
E4	N Canal Rd
F4	Nesting
E4	Nevada Pacific Blvd
E6	Nevada Pkwy
E5	Newlands Dr E
F6	Newlands Dr E
F6	Newlands Dr E
F7	Newlands Dr E
F5	Newlands Dr W
E3	Nighthawk Ct
D6	Nightingale Ct
D7	North Fork Rd
E2	Sage Brush Rd
E3	Sage St
E2	Sage St
E3	Sage St
E5	Saddle Horn Wy
E3	Salvadore Dr
E4	Sandia Dr
E4	Sandia Dr
E3	Sara Ct
D3	Sarin Dr
B10	Scarlet Wy
B10	Scenic St
D4	Scott Dr
E2	Seabiscuit Dr
E3	Season Dr
D9	Serenity Cir
E5	Seven Iron Ct
D5	Shadow Ln
E4	Shadow Ln
E5	Shadow Ln
E5	Shadow Mountain Dr
D3	Sheffield Wy
D7	Short Cut Ln
C3	Short Oak Ct
C4	Sidehill Dr
E4	Sierra St
D7	Silver Lace Blvd
D4	Silver Wy
E4	Silverado Ct
D4	Silverado Dr
D4	Slate Wy
E5	Slice Ct
C9	Smith Ln
D3	Snethkoge Ln
E6	Snowdrift Rd
F2	Snowflower Rd
E4	Snowy Plover Wy
E4	Soaring Wy
E4	Sonrel Ct
F2	South Fork Rd
E6	Spaight Wy
E4	Sparrow Ct
E4	Spicer Ct
E4	Spring Dr
E3	Spring Rd
E4	Spruce Dr
E5	Spur Ct
E5	Spur Way
E4	St Louis Rd
E2	Stallion Ct
E4	Stallion Ct
E6	Stanton Ln
E4	Stanton Ln
E5	Steven Wy
D7	Stillwater Wy
E2	Stirrup Ct
E2	Stock Ln
E5	Stock Ln
E5	Stone Creek Ct
D5	Streambed Dr
E3	Summer St
D6	Summerwind Dr
D6	Sunflower Ln
E3	Sunny Ln
E5	Sunrise Cir
E5	Sunset Cir
E4	Sunset Dr
E3	Sunshine Ln
E4	Suzanne Ct
C8	Sweetwater Ct
E4	Sweetwater Ln
E4	Sycamore St
E6	Tamsen Ln
E6	Tamsen Rd
E3	Tanager Rd
F4	Tanglewood Dr
E4	Tara Ln
E4	Thorne Wy
D9	Three Iron Ct
E3	Timberline Dr
E4	Todd Ct
C4	Tommi Ct
D5	Treeline Dr
E4	Trellis Wy
E6	Trubode Ln
E5	Truck Inn Wy
E2	Truckee Ln
F2	Truckee Ln
D8	Turf Ct
D4	Turquoise Wy
D9	Two Iron Ct
C8	Ucceli Ln
D10	Us Hwy 50 Alt
D11	Us Hwy 50 Alt
D9	Us Hwy 50 Alt
E5	Us Hwy 50 Alt
E6	Us Hwy 50 Alt
E5	Us Hwy 50 Alt
E8	Us Hwy 50 Alt
C4	Valley View Dr
E4	Vance Dr
E4	Villa Park Wy
E4	Village Dr
F4	Vine St
C3	Violet Wy
D5	Vista Moon Ct
D5	Vonnie Ln
D9	Vrhel Ct
E4	W Canary Cir
E6	Wadsworth
E6	Wangle Wy
E5	Wagon Wheel Ln
D9	Walker Ct
D7	Walker River Way
D8	Wallace Wy
C3	Walnut Ct
C3	Walnut Ct
C4	Walnut Dr
E5	Warren Wy
D3	Wasatch Ct
D9	Waterland Ave
D3	Waterland Ct
D9	Wedge Ln
E6	Wedge Ln
F3	Weist St
E4	Westerlund Ln
E6	Westward Ln
E6	Whipple Tree Ln
C4	White Bluffs Dr
C4	White Bluffs Dr
C4	White Hawk Ln
D5	White Oak Wy
C3	Whitney Ln
E3	Wicker Pl
F2	Wild Cherry Dr
F2	Wild Rose Ct
E4	Wild Rose Dr
E4	Willamette Ln
F4	Willewood Dr
E4	Willewood St
E4	Willow Wy
E4	Willow Wy
E4	Wind Rose Rd
D7	Windrow Dr
D5	Winnie's Ln
D5	Winnie's Ln
E3	Winston St
E3	Winter Pl
F2	Woodchuck Dr
D8	Woody Ln
C4	Wronhorn Ct
C4	Wronhorn Dr
E5	Wrangler Ln
C4	Yves Dr


Approximate 1-Mile Radius
Site
CITY OF FERNLEY
BUILDING OUR FUTURE
INCORPORATED 2001
Churchill County
Lyon County
City of Fernley
Washoe County
Storey County
Truckee River
Truckee River Flood Project
Truckee River Flood Project Conveyance Channel
Nevada Cement
Love's Truck Stop
Commerce Center Dr
Water Treatment Plant
Pilot Truck Stop
Jackpot Crossing
Pilot Rd
Logan Ln
Mesa Dr
Woodchuck Dr
Apache Dr
Shoshone Dr
Truckee Ln
Margaret Wy
Carol Wy
Stock Ln
Farrell Ct
Cheyenne Dr
Saddle Horn Dr
Quail Run Rd
Stallion Ct
Bar-B-Q Ranch Dr
Sadlebrook Dr
Rose Ln
Country Cir
Country Dr
Jonathan Ln
Racine Wy
Waveland Av
Churchill Pkwy
Reno Dr
Fairfield Ct
Hills Dr
Motocross
Veterans Cemetery
Fernley Cemetery
Mission Wy
Gizzigli Ln
Kristin Wy
Diablo Cir
Sierra St
Main Street Park
Post Office
Fire Station
In Town Park
Comstock Dr
Cedar St
McCarrick
Beverly Ct
Heather Ln
Laurel Ln
Falcon Dr
F.E.S.
Curry Dr
Spruce Dr
Maple Dr
Willow Dr
Library
City Hall
Sheriff's Office
Westerlund Ln
Primrose Dr
Willowcrest Dr
Brambles Dr
Shadow Ln
Nadelwood Dr
Sierra St E
Blue Jay Dr
Rosemary Wy
Sunshine Dr
Summer St
Sunny Ln
Starlite Dr
Swimming Pool
City Maint Yard
Refuse
BMX Park
Old Off Leash Park
Dog Off Leash Park
Soccer Fields
Fernley Sports Complex
Atrium Rd
Iris Ln
Jennys Ln
Aster Ln
Canary Cir
Cottonwood Ln
Trellis Ln
Gardner Ln
Rosemary Ln
Old Marie Ln
Farm Ln
Andy Wy
Farm Ln E
Emerson Cir
Bickboard Wy
Romfield Dr
Bramwood Ln
Crimson Rd
Diamond Wy
Scott Dr
Silver Wy
Green Valley Dr
Jasper Wy
Green Valley Park
Rancho Rd
Canal Dr
Barn Ln
Elle Wy
Ponderosa Park
Henson Ln
Chantel Ct
Vista Moon Ct
Johnny's Ln
Picedy Dr
Rawles Dr
Hickory Ln
Streambed Dr
Streambed Ln
Harvest Creek Dr
Wheeler Ln
Whitewater Dr
Chevy Ln S
Chevy Ln N
Sunflower Ln
Primrose Ln
Sherwin-Williams
Macdonald Dr
Lowes
Walmart
Quad Graphics
Post Office, DMV Kiosk
Newlands Dr E
Financial Wy
Salvadore Dr
Lyon Dr
Industrial Dr
Resource Dr
Sewer Treatment Plant
US Hwy 50A
Frontage Rd
Ellice Wy
Banner Health Care
Rose Creek Rd
Anne Wy
Reed Wy
Tamsen Ln
Longdon St
Rutledge St
Snowdrift Rd
Fort Bridger Rd
Rover Rd
Ingleswood Dr
Wrangler Ln
Andrew Wy
Spur Wy
Rebecca Ln
Roundup Rd
Rose Creek Rd
Farm District Rd
S.M.S.
Rainbow Ln
Horseshoe Ln
Hayfield Ln
Jasmine Ln
Wrangler Dr
Country Ranch Rd
Eagle Path Wy
Country Hollow Dr
Fire Department
North Fork Rd
Creek Rd
Autumn Winds Park
South Fork Rd
Streambed Ln
Golf Course
Donna Wy
Vonnie Ln
Wendy Ct
Desert Springs Ln
Fallen Leaf Ln
Julie Ln
Mary Lou Ln
Dodge Ln
Dog Leg Dr
Wedge Ln
E.V.E.S.
Baron Ln
Lucas Ln
Brush Dr
Wrangler Ln
Dessert Hills Dr
Eagle Ct
Golf Ct
Drayer Ln
Park Ct
Johnson Memorial Park
Rawhide Rd
Rhinehart Wy
Richards Wy
Alta Vista Dr
Bambalier Rd
Smethport Dr
Sweetwater Ln
Sweetwater Ct
Ucceli Ln
Rose Ct
June Ct
Hodges Ct
Granny View Ct
Links View Dr
Smith Ln
Rose Lee Rd
Whitney Ln
Highland Dr
Glenwood Dr
Gustafson St
Alpine Dr
Yves Dr
Rose Lee Rd
Spur Brush Dr
View St
View Ct
Snake St
High Desert Dr
Valley Ranch Dr
Pondelosa Ln
Pondelosa Dr
Rocky Ln
Spring Rd
Barnes Ln
Courtney Ct
Simone Dr
Hillcrest Rd
Pastoral Valley Ln
Tiger Field Airport
Reno Fernley Racetrack
Fernley High School Rd
F.H.S.
Walnut Ct
Oak Dr
Royal Oaks Dr
Hazelnut Dr
Desert Shadows Ln
Cornerstone Wy
Corey Bluffs Dr
Bluffs Cir
Valley View Dr
North Line Rd
Worsham Dr
Worsham Ct
Tennis Ct
Sidehill Dr
Coyote Ln
Reset Ln
Corsair Dr
Pioneer Dr
Wrangler Dr
Wrangler Ct
Wrangler Ln
Wrangler Ln N
Wrangler Ln S
Wrangler Ln E
Wrangler Ln W
Wrangler Ln

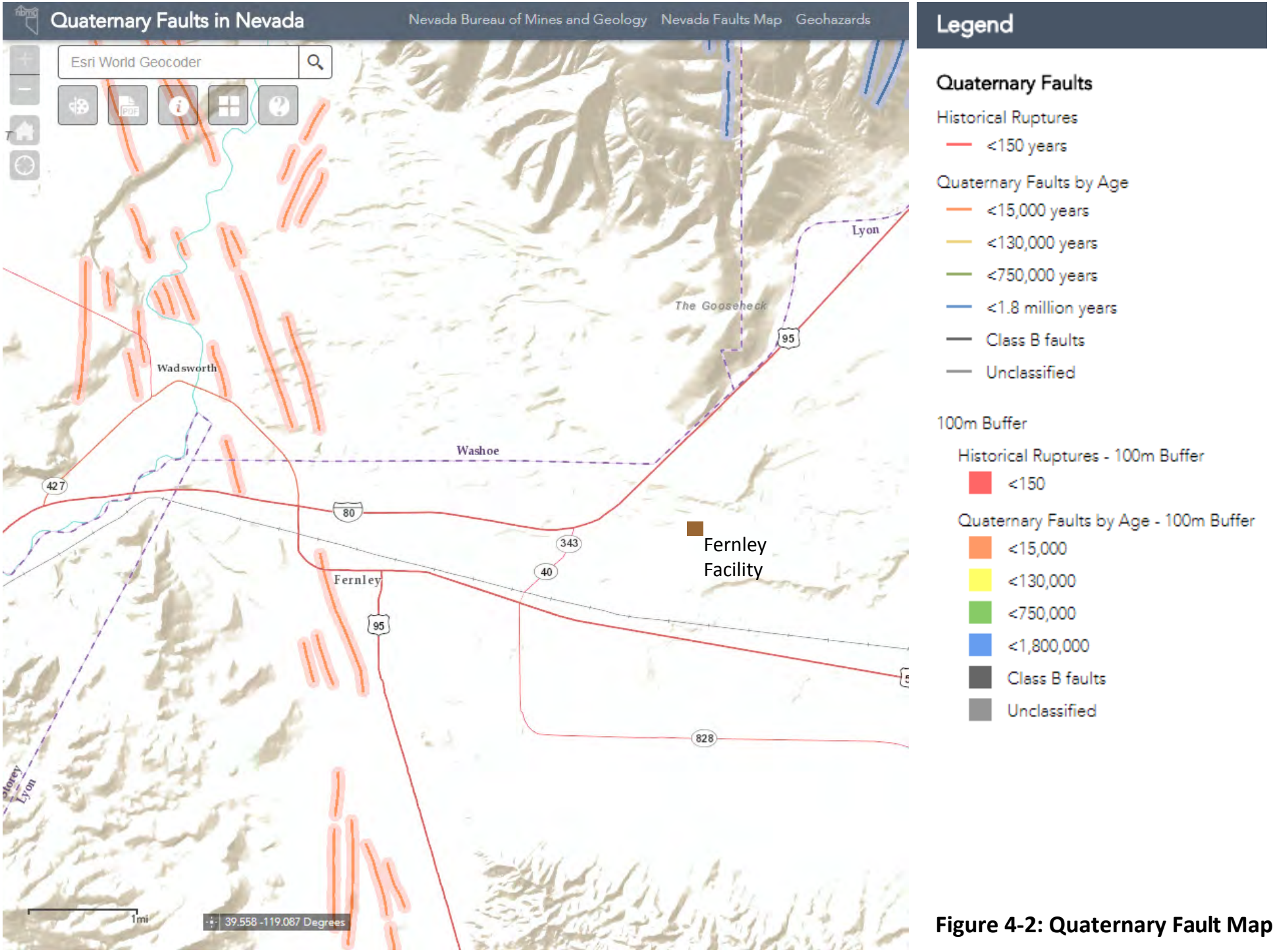


Figure 4-2: Quaternary Fault Map

APPENDIX A
CERTIFICATE OF DESIGNATION CHECKLIST

Nevada Department of CONSERVATION & NATURAL RESOURCES

Nevada Division of Environmental Protection (NDEP)
Bureau of Sustainable Materials Management (BSMM)
Permitting Branch

NDEP

Certificate of Designation Checklist

Date Received: _____

Applicant Name: 21st Century Environmental Management of Nevada, LLC

Point of Contact: Greg Fink **Contact Phone:** 215-822-2676

Facility Location: 2095 and 2185 East Newlands Drive
Street address or Lat/Long (UTM)

Fernley (City) Lyon (County)

Mailing Address: 2095 East Newlands Drive
Street address/PO Box

Fernley (City) NV (State) 89408 (Zip)

Type of Facility:

☐	Landfill / Boiler / Incinerator	$50,000
☑	Treatment	$50,000
☐	Surface Impoundment / Thermal Treatment / Waste Pile	$25,000
☑	Storage	$25,000
☐	Facility for Recycling	$10,000

Application Fee Amount: $ 50,000

Date Fee Received: _____ **Check / e-Payment #:** _____

(*Refer to* **NAC 444.8446** *for specific fee amount. The maximum fee is capped at $100,000.00*)

Pre-Qualification

NAC Reference	Criteria	Yes	No
444.8458.4(a)	Does the submitted application identify the proposed operation to be a ***Facility for Community Recycling***?	☐	☑
444.8458.4(b)	Does the submitted application identify the proposed operation to be a ***Facility for Community Storage***?	☐	☑
444.8458.4(c)	Will the proposed site be for the storage of hazardous waste which is generated on the site of the facility?	☐	☑
444.8458.4(d)	Does the proposed facility qualify for *Interim Status* pursuant to 40 C.F.R. Part 270, Subpart G?	☐	☑

NOTE: *If the answer is "Yes" to any of the above questions, then the provisions of* **NAC 444.8458** (Certificate of Designation) *and* **NAC 444.8456** (Facility Siting) *do not apply; and as such, the following checklist does not need to be completed.*

Certificate of Designation
Application Checklist

Pursuant to **NAC 444.8458.2**, *an application for a* **Certificate of Designation** *must be accompanied by sufficient information to determine the need for the facility, and by information concerning the following requirements.*

NAC Reference	Requirement	Satisfied?	Page #	Section #
444.8458.**2(a)**	*The effect of the proposed facility on the public health, safety and welfare in the geographic area and any municipality near its proposed location, including without limitation:*			
444.8458.2(a)**(1)**	The risk and effect of an accident in the transportation of hazardous waste to the facility; ***Review Comments***	☑ Yes ☐ No	**3-1 - 3-2**	**3.1**
444.8458.2(a)**(2)**	The identification, risk and effect of any spill, discharge, fire, failure of equipment or other emergency that could occur at the facility; ***Review Comments***	☑ Yes ☐ No	**3-2 - 3-3**	**3.2**
444.8458.2(a)**(3)**	The identification, risk and effect of any exposure to persons of hazardous waste, or products of the degradation of hazardous waste, that could occur during the operation or after the closure of the facility; ***Review Comments***	☑ Yes ☐ No	**3-4**	**3.3**
444.8458.2(a)**(4)**	The consistency of the facility with local and regional plans and regulations for the use of land; ***Review Comments***	☑ Yes ☐ No	**3-4**	**3.4**
444.8458.2(a)**(5)**	The protection of the public from adverse effects, including the economic and environmental effects from the construction and operation, and care after closure, of the facility; ***Review Comments***	☑ Yes ☐ No	**3-4 - 3-7**	**3.5**
444.8458.2(a)**(6)**	The risk and effect of the facility concerning public and private sources of drinking water; and, ***Review Comments***	☑ Yes ☐ No	**3-8**	**3.6**
444.8458.2(a)**(7)**	The risk and effect of the facility concerning scenic, historic and recreational areas, and wetlands, floodplains, wildlife areas and other areas that are environmentally sensitive; ***Review Comments***	☑ Yes ☐ No	**3-8 - 3-10**	**3.7**

NAC Reference	Requirement	Satisfied?	Page #	Section #
444.8458.2**(b)**	The density of population in the proximity of the proposed location for the facility; ***Review Comments***	☑ Yes ☐ No	**3-10**	**3.8**
444.8458.2(c)**(1)**	*The public benefits of the proposed facility, including:* The need in the State for the additional capacity for the management of hazardous waste; ***Review Comments***	☑ Yes ☐ No	**3-10 - 3-11**	**3.9**
444.8458.2(c)**(2)**	The public benefits of the proposed facility, including: The energy and resources recoverable by the proposed facility; ***Review Comments***	☑ Yes ☐ No	**3-10 - 3-11**	**3.9**
444.8458.2(c)**(3)**	The public benefits of the proposed facility, including: The reduction in methods for the management of hazardous waste, which are less suitable for the environment, that would be made possible by the proposed facility; ***Review Comments***	☑ Yes ☐ No	**3-10 - 3-11**	**3.9**
444.8458.2**(d)**	Whether any other available site or method for the management of hazardous waste would be less detrimental to the public health or safety or to the quality of the environment; ***Review Comments***	☑ Yes ☐ No	**3-11**	**3.10**
444.8458.2**(e)**	The applicant's qualifications and experience in the management of hazardous waste; ***Review Comments***	☑ Yes ☐ No	**3-11**	**3.11**
444.8458.2**(f)**	Whether the proposed facility complies with the provisions of **NAC 444.8456**; **NOTE**: *see the* Facility Siting Requirements *below*	☐ Yes ☑ No	**4-1 - 4-4**	**4.0**
Facility Siting Requirements				
444.8456	*A stationary new or expanding facility for the management of hazardous waste must not be constructed within:*			
444.8456.1**(a)(1)**	**one mile of:** a dwelling, school, church or community center; ***Review Comments***	☑ Yes ☐ No	**4-1**	**4.1**

NAC Reference	Requirement	Satisfied?	Page #	Section #
444.8456.1(a)**(2)**	…an area zoned solely for residential use; ***Review Comments***	☐ Yes ☑ No	**4-1**	**4.1**
444.8456.1(a)**(3)**	…a public park; ***Review Comments***	☑ Yes ☐ No	**4-1**	**4.2**
444.8456.1(a)**(4)**	…a wildlife management area; ***Review Comments***	☐ Yes ☑ No	**3-10; 4-1**	**3.7.6; 4.3**
444.8456.1(a)**(5)**	…an area identified by the Department of Wildlife as a key habitat for wildlife or as a habitat for an endangered or threatened species; ***Review Comments***	☑ Yes ☐ No	**4-2**	**4.4**
444.8456.1(a)**(6)**	…an area where surface water or wetlands occur; ***Review Comments***	☐ Yes ☑ No	**3-9; 4-2**	**3.7.4; 4.5**
444.8456.1(a)**(7)**	…a natural or man-made geologic hazard which provides a potential for the conveyance of hazardous constituents, as that term is defined in Appendix VIII of 40 C.F.R. Part 261, to surface or groundwaters; or ***Review Comments***	☑ Yes ☐ No	**4-2**	**4.6**
444.8456.1(a)**(8)**	…an existing well which supplies public drinking water; ***Review Comments***	☑ Yes ☐ No	**4-3**	**4.7**
444.8456.1**(b)**	An area identified by the Office of Historic Preservation of the Department of Cultural Affairs as an historical or archeological site that is eligible for listing in the State Register of Historic Places or the National Register of Historic Places, unless an approved mitigation activity has been completed on the site; ***Review Comments***	☑ Yes ☐ No	**4-3**	**4.8**
444.8456.1**(c)**	A 100-year floodplain; or, ***Review Comments***	☐ Yes ☑ No	**4-3**	**4.9**

NAC Reference	Requirement	Satisfied?	Page #	Section #
444.8456.1**(d)**	An area where the water table seasonally rises to within **150 feet** of the surface of the ground. ***Review Comments***	☐ Yes ☑ No	**4-4**	**4.10**
NOTE: *if all* Facility Siting *requirements above are satisfied, then provide a "yes" response can be provided in the box for* **NAC 444.8458.2(f).**				
444.8458.2**(g)**	The characteristics, sources and quantity of hazardous waste to be managed. ***Review Comments***	☑ Yes ☐ No	**2-2 - 2-7**	**2.2;** **2.3;** **2.4**
ADDITIONAL REVIEW COMMENTS:				
NDEP Determination				
444.8458.3**(a)**	Does the probable beneficial environmental effect of the facility to the State outweigh the probable adverse environmental effect? ***Review Comments***	☐ Yes ☐ No		
444.8458.3**(b)**	Is there a need for the facility to serve industry in the State? ***Review Comments***	☐ Yes ☐ No		
444.8458.3**(b)**	Has the basis for the Division's determination of need for the proposed facility been set forth in writing? ***Review Comments***		☐ Attached _____ Date	
OTHER COMMENTS:				

Date of Inspection: _____

Completed by: _____ Date: _____

APPENDIX B
ACCEPTED WASTE CODES

7. Descriptions of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				1) Process Codes	(2) Process Descriptions (if code is not entered in 7.D1)
001	D001	-		S01 S02 T01	
002	D002	-		S01 S02 T01	
003	D003	-		S01 S02 T01	
004	D004	-		S01 S02 T01	
005	D005	-		S01 S02 T01	
006	D006	-		S01 S02 T01	
007	D007	-		S01 S02 T01	
008	D008	-		S01 S02 T01	
009	D009	-		S01 S02 T01	
010	D010	-		S01 S02 T01	
011	D011	-		S01 S02 T01	
012	D012	-		S01	
013	D013	-		S01	
014	D014	-		S01	
015	D015	-		S01	
016	D016	-		S01	
017	D017	-		S01	
018	D018	-		S01	
019	D019	-		S01	
020	D020	-		S01	
021	D021	-		S01	
022	D022	-		S01	
023	D023	-		S01	
024	D024	-		S01	
025	D025	-		S01	
026	D026	-		S01	
027	D027	-		S01	
028	D028	-		S01	
029	D029	-		S01	
030	D030	-		S01	
031	D031	-		S01	
032	D032	-		S01	
033	D033	-		S01	
034	D034	-		S01	
035	D035	-		S01	
036	D036	-		S01	
037	D037	-		S01	
038	D038	-		S01	
039	D039	-		S01	
040	D040	-		S01	
041	D041	-		S01	
042	D042	-		S01	
043	D043	-		S01	
044	F001	-		S01	
045	F002	-		S01	
046	F003	-		S01	
047	F004	-		S01	
048	F005	-		S01	
049	F006	-		S01 S02 T01	
050	F007	-		S01 S02 T01	
051	F008	-		S01 S02 T01	
052	F009	-		S01 S02 T01	
053	F010	-		S01 S02 T01	
054	F011	-		S01 S02 T01	
055	F012	-		S01 S02 T01	
056	F019	-		S01 S02 T01	
057	F020	-		S01	
058	F021	-		S01	

7. Descriptions of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				1) Process Codes	(2) Process Descriptions (if code is not entered in 7.D1)
059	F022	-		S01	
060	F023	-		S01	
061	F024	-		S01	
062	F025	-		S01	
063	F026	-		S01	
064	F027	-		S01	
065	F028	-		S01	
066	F032	-		S01	
067	F034	-		S01	
068	F035	-		S01	
069	F037	-		S01	
070	F038	-		S01	
071	F039	-		S01	
072	K001	-		S01 S02T01	
073	K002	-		S01 S02T01	
074	K003	-		S01 S02T01	
075	K004	-		S01 S02T01	
076	K005	-		S01 S02T01	
077	K006	-		S01 S02T01	
078	K007	-		S01 S02T01	
079	K008	-		S01 S02T01	
080	K009	-		S01	
081	K010	-		S01	
082	K011	-		S01	
083	K013	-		S01	
084	K014	-		S01	
085	K015	-		S01	
086	K016	-		S01	
087	K017	-		S01	
088	K018	-		S01	
089	K019	-		S01	
090	K020	-		S01	
091	K021	-		S01	
092	K022	-		S01	
093	K023	-		S01	
094	K024	-		S01	
095	K025	-		S01	
096	K026	-		S01	
097	K027	-		S01	
098	K028	-		S01	
099	K029	-		S01	
100	K030	-		S01	
101	K031	-		S01	
102	K032	-		S01	
103	K033	-		S01	
104	K034	-		S01	
105	K035	-		S01	
106	K036	-		S01	
107	K037	-		S01	
108	K038	-		S01	
109	K039	-		S01	
110	K040	-		S01	
111	K041	-		S01	
112	K042	-		S01	
113	K043	-		S01	
114	K044	-		S01	
115	K045	-		S01	
116	K046	-		S01	

7. Descriptions of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				1) Process Codes	(2) Process Descriptions (if code is not entered in 7.D1)
117	K047	-		S01	
118	K048	-		S01	
119	K049	-		S01	
120	K050	-		S01	
121	K051	-		S01	
122	K052	-		S01	
123	K060	-		S01	
124	K061	-		S01	
125	K062	-		S01	
126	K069	-		S01	
127	K071	-		S01	
128	K073	-		S01	
129	K083	-		S01	
130	K084	-		S01	
131	K085	-		S01	
132	K086	-		S01	
133	K087	-		S01	
134	K088	-		S01	
135	K093	-		S01	
136	K094	-		S01	
137	K095	-		S01	
138	K096	-		S01	
139	K097	-		S01	
140	K098	-		S01	
141	K099	-		S01	
142	K100	-		S01	
143	K101	-		S01	
144	K102	-		S01	
145	K103	-		S01	
146	K104	-		S01	
147	K105	-		S01	
148	K106	-		S01	
149	K107	-		S01	
150	K108	-		S01	
151	K109	-		S01	
152	K110	-		S01	
153	K111	-		S01	
154	K112	-		S01	
155	K113	-		S01	
156	K114	-		S01	
157	K115	-		S01	
158	K116	-		S01	
159	K117	-		S01	
160	K118	-		S01	
161	K123	-		S01	
162	K124	-		S01	
163	K125	-		S01	
164	K126	-		S01	
165	K131	-		S01	
166	K132	-		S01	
167	K136	-		S01	
168	K141	-		S01	
169	K142	-		S01	
170	K143	-		S01	
171	K144	-		S01	
172	K145	-		S01	
173	K147	-		S01	
174	K148	-		S01	
175	K149	-		S01	
176	K150	-		S01	
177	K151	-		S01	
178	K156	-		S01	
179	K157	-		S01	
180	K158	-		S01	
181	K159	-		S01	
182	K161	-		S01	
183	K169	-		S01	
184	K170	-		S01	
185	K171	-		S01	
186	K172	-		S01	
187	K174	-		S01	
188	K175	-		S01	
189	K176	-		S01	
190	K177	-		S01	
191	K178	-		S01	
192	K181	-		S01	

7. Descriptions of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				1) Process Codes	(2) Process Descriptions (if code is not entered in 7.D1)
1 7 5	K 1 4 9	-		S 0 1	
1 7 6	K 1 5 0	-		S 0 1	
1 7 7	K 1 5 1	-		S 0 1	
1 7 8	K 1 5 6	-		S 0 1	
1 7 9	K 1 5 7	-		S 0 1	
1 8 0	K 1 5 8	-		S 0 1	
1 8 1	K 1 5 9	-		S 0 1	
1 8 2	K 1 6 1	-		S 0 1	
1 8 3	K 1 6 9	-		S 0 1	
1 8 4	K 1 7 0	-		S 0 1	
1 8 5	K 1 7 1	-		S 0 1	
1 8 6	K 1 7 2	-		S 0 1	
1 8 7	K 1 7 4	-		S 0 1	
1 8 8	K 1 7 5	-		S 0 1	
1 9 9	K 1 7 6	-		S 0 1	
1 9 0	K 1 7 7	-		S 0 1	
1 9 1	K 1 7 8	-		S 0 1	
1 9 2	K 1 8 1	-		S 0 1	
1 9 3	P 0 0 1	-		S 0 1	
1 9 4	P 0 0 2	-		S 0 1	
1 9 5	P 0 0 3	-		S 0 1	
1 9 6	P 0 0 4	-		S 0 1	
1 9 7	P 0 0 5	-		S 0 1	
1 9 8	P 0 0 6	-		S 0 1	
2 0 9	P 0 0 7	-		S 0 1	
2 0 0	P 0 0 8	-		S 0 1	
2 0 1	P 0 1 0	-		S 0 1	
2 0 2	P 0 1 1	-		S 0 1	
2 0 3	P 0 1 2	-		S 0 1	
2 0 4	P 0 1 3	-		S 0 1	
2 0 5	P 0 1 4	-		S 0 1	
2 0 6	P 0 1 5	-		S 0 1	
2 0 7	P 0 1 6	-		S 0 1	
2 0 8	P 0 1 7	-		S 0 1	
2 1 9	P 0 1 8	-		S 0 1	
2 1 0	P 0 2 0	-		S 0 1	
2 1 1	P 0 2 1	-		S 0 1 S 0 2 T 0 1	
2 1 2	P 0 2 2	-		S 0 1	
2 1 3	P 0 2 3	-		S 0 1	
2 1 4	P 0 2 4	-		S 0 1	
2 1 5	P 0 2 6	-		S 0 1	
2 1 6	P 0 2 7	-		S 0 1	
2 1 7	P 0 2 8	-		S 0 1	
2 1 8	P 0 2 9	-		S 0 1 S 0 2 T 0 1	
2 2 9	P 0 3 0	-		S 0 1 S 0 2 T 0 1	
2 2 0	P 0 3 1	-		S 0 1	
2 2 1	P 0 3 3	-		S 0 1	
2 2 2	P 0 3 4	-		S 0 1	
2 2 3	P 0 3 6	-		S 0 1	
2 2 4	P 0 3 7	-		S 0 1	
2 2 5	P 0 3 8	-		S 0 1	
2 2 6	P 0 3 9	-		S 0 1	
2 2 7	P 0 4 0	-		S 0 1	
2 2 8	P 0 4 1	-		S 0 1	
2 3 9	P 0 4 2	-		S 0 1	
2 3 0	P 0 4 3	-		S 0 1	
2 3 1	P 0 4 4	-		S 0 1	
2 3 2	P 0 4 5	-		S 0 1	

7. Descriptions of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				1) Process Codes	(2) Process Descriptions (if code is not entered in 7.D1)
23	P046	-		S01	
24	P047	-		S01	
25	P048	-		S01	
26	P049	-		S01	
27	P050	-		S01	
28	P051	-		S01	
49	P054	-		S01	
40	P056	-		S01	
41	P057	-		S01	
42	P058	-		S01	
43	P059	-		S01	
44	P060	-		S01	
45	P062	-		S01	
46	P063	-		S01	
47	P064	-		S01	
48	P065	-		S01	
59	P066	-		S01	
50	P067	-		S01	
51	P068	-		S01	
52	P069	-		S01	
53	P070	-		S01	
54	P071	-		S01	
55	P072	-		S01	
56	P073	-		S01	
57	P074	-		S01	
58	P075	-		S01	
59	P076	-		S01	
60	P077	-		S01	
61	P078	-		S01	
62	P081	-		S01	
63	P082	-		S01	
64	P084	-		S01	
65	P085	-		S01	
66	P087	-		S01	
67	P088	-		S01	
68	P089	-		S01	
69	P092	-		S01	
70	P093	-		S01	
71	P094	-		S01	
72	P095	-		S01	
73	P096	-		S01	
74	P097	-		S01	
75	P098	-		S01	
76	P099	-		S01	
77	P101	-		S01	
78	P102	-		S01	
79	P103	-		S01	

7. Descriptions of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				1) Process Codes	(2) Process Descriptions (if code is not entered in 7.D1)
291	P116	-		S01	
292	P118	-		S01	
293	P119	-		S01	
294	P120	-		S01	
295	P121	-		S01	
296	P122	-		S01	
297	P123	-		S01	
298	P127	-		S01	
309	P128	-		S01	
300	P185	-		S01	
301	P188	-		S01	
302	P189	-		S01	
303	P190	-		S01	
304	P191	-		S01	
305	P194	-		S01	
306	P196	-		S01	
307	P197	-		S01	
308	P198	-		S01	
319	P199	-		S01	
310	P201	-		S01	
311	P202	-		S01	
312	P203	-		S01	
313	P204	-		S01	
314	P205	-		S01	
315	U001	-		S01	
316	U002	-		S01	
317	U003	-		S01	
328	U004	-		S01	
320	U005	-		S01	
321	U006	-		S01	
322	U007	-		S01	
323	U008	-		S01	
324	U009	-		S01	
325	U010	-		S01	
326	U011	-		S01	
327	U012	-		S01	
338	U014	-		S01	
329	U015	-		S01	
330	U016	-		S01	
331	U017	-		S01	
332	U018	-		S01	
333	U019	-		S01	
334	U020	-		S01	
335	U021	-		S01	
336	U022	-		S01	
337	U023	-		S01	
348	U024	-		S01	
339	U025	-		S01	
340	U026	-		S01	
341	U027	-		S01	
342	U028	-		S01	
343	U029	-		S01	
344	U030	-		S01	
345	U031	-		S01	
346	U032	-		S01	
347	U033	-		S01	
358	U034	-		S01	
349	U035	-		S01	
350	U036	-		S01	
351	U037	-		S01	
352	U038	-		S01	
353	U039	-		S01	
354	U041	-		S01	
355	U042	-		S01	
356	U043	-		S01	
357	U044	-		S01	
368	U045	-		S01	
359	U046	-		S01	
360	U047	-		S01	
361	U048	-		S01	
362	U049	-		S01	
363	U050	-		S01	
364	U051	-		S01	
365	U052	-		S01	
366	U053	-		S01	
367	U055	-		S01	
378	U056	-		S01	
369	U057	-		S01	
370	U058	-		S01	
371	U059	-		S01	
372	U060	-		S01	
373	U061	-		S01	
374	U062	-		S01	
375	U063	-		S01	
376	U064	-		S01	
377	U066	-		S01	
388	U067	-		S01	
379	U068	-		S01	
380	U069	-		S01	
381	U070	-		S01	
382	U071	-		S01	
383	U072	-		S01	
384	U073	-		S01	
385	U074	-		S01	
386	U075	-		S01	
387	U076	-		S01	
398	U077	-		S01	
389	U078	-		S01	
390	U079	-		S01	
391	U080	-		S01	
392	U081	-		S01	
393	U082	-		S01	
394	U083	-		S01	
395	U084	-		S01	
396	U085	-		S01	
397	U086	-		S01	
408	U087	-		S01	
399	U088	-		S01	
400	U089	-		S01	
401	U090	-		S01	
402	U091	-		S01	
403	U092	-		S01	
404	U093	-		S01	
405	U094	-		S01	
406	U095	-		S01	
407	U096	-		S01	
418	U097	-		S01	
409	U098	-		S01	
410	U099	-		S01	
411	U101	-		S01	
412	U102	-		S01	
413	U103	-		S01	
414	U105	-		S01	
415	U106	-		S01	
416	U107	-		S01	
417	U108	-		S01	
428	U109	-		S01	
419	U110	-		S01	
420	U111	-		S01	
421	U112	-		S01	
422	U113	-		S01	
423	U114	-		S01	
424	U115	-		S01	
425	U116	-		S01	
426	U117	-		S01	
427	U118	-		S01	
438	U119	-		S01	
429	U120	-		S01	
430	U121	-		S01	
431	U122	-		S01	
432	U123	-		S01	
433	U124	-		S01	
434	U125	-		S01	
435	U126	-		S01	
436	U127	-		S01	
437	U128	-		S01	
448	U129	-		S01	
439	U130	-		S01	
440	U131	-		S01	
441	U132	-		S01	
442	U133	-		S01	
443	U134	-		S01	
444	U135	-		S01	
445	U136	-		S01	
446	U137	-		S01	
447	U138	-		S01	
458	U139	-		S01	
449	U140	-		S01	
450	U141	-		S01	
451	U142	-		S01	
452	U143	-		S01	
453	U144	-		S01	
454	U145	-		S01	
455	U146	-		S01	
456	U147	-		S01	
457	U148	-		S01	
468	U149	-		S01	
459	U150	-		S01	
460	U151	-		S01	
461	U152	-		S01	
462	U153	-		S01	
463	U154	-		S01	
464	U155	-		S01	
465	U156	-		S01	
466	U157	-		S01	
467	U158	-		S01	
478	U159	-		S01	
469	U160	-		S01	
470	U161	-		S01	
471	U162	-		S01	
472	U163	-		S01	
473	U164	-		S01	
474	U165	-		S01	
475	U166	-		S01	
476	U167	-		S01	
477	U168	-		S01	
488	U169	-		S01	
479	U170	-		S01	
480	U171	-		S01	
481	U172	-		S01	
482	U173	-		S01	
483	U174	-		S01	
484	U176	-		S01	
485	U177	-		S01	
486	U178	-		S01	
487	U179	-		S01	
498	U180	-		S01	
489	U181	-		S01	
490	U182	-		S01	
491	U183	-		S01	
492	U184	-		S01	
493	U185	-		S01	
494	U186	-		S01	
495	U187	-		S01	
496	U188	-		S01	
497	U189	-		S01	
508	U190	-		S01	
499	U191	-		S01	
500	U192	-		S01	
501	U193	-		S01	
502	U194	-		S01	
503	U196	-		S01	
504	U197	-		S01	
505	U200	-		S01	
506	U201	-		S01	
507	U202	-		S01	
518	U203	-		S01	
509	U204	-		S01	
510	U205	-		S01	
511	U206	-		S01	
512	U207	-		S01	
513	U208	-		S01	
514	U209	-		S01	
515	U210	-		S01	
516	U211	-		S01	
517	U213	-		S01	
528	U214	-		S01	
519	U215	-		S01	
520	U216	-		S01	
521	U217	-		S01	
522	U218	-		S01	
523	U219	-		S01	
524	U220	-		S01	
525	U221	-		S01	
526	U222	-		S01	
527	U223	-		S01	
538	U225	-		S01	
529	U226	-		S01	
530	U227	-		S01	
531	U228	-		S01	
532	U234	-		S01	
533	U235	-		S01	
534	U236	-		S01	
535	U237	-		S01	
536	U238	-		S01	
537	U239	-		S01	
548	U240	-		S01	
539	U243	-		S01	
540	U244	-		S01	
541	U246	-		S01	
542	U247	-		S01	
543	U248	-		S01	
544	U249	-		S01	
545	U271	-		S01	
546	U278	-		S01	
547	U279	-		S01	
558	U280	-		S01	
549	U328	-		S01	
550	U353	-		S01	
551	U359	-		S01	
552	U364	-		S01	
553	U367	-		S01	
554	U372	-		S01	
555	U373	-		S01	
556	U375	-		S01	
557	U376	-		S01	
568	U377	-		S01	
559	U378	-		S01	
560	U379	-		S01	
561	U381	-		S01	
562	U382	-		S01	
563	U383	-		S01	
564	U384	-		S01	
565	U385	-		S01	
566	U386	-		S01	
567	U387	-		S01	
578	U389	-		S01	
569	U390	-		S01	
570	U391	-		S01	
571	U392	-		S01	
572	U393	-		S01	
573	U394	-		S01	
574	U395	-		S01	
575	U396	-		S01	
576	U400	-		S01	
577	U401	-		S01	
588	U402	-		S01	
579	U403	-		S01	
580	U404	-		S01	
581	U407	-		S01	
582	U409	-		S01	
583	U410	-		S01	
584	U411	-		S01	
585	U412	-		S01	
586	U413	-		S01	
587	U414	-		S01	
598	U415	-		S01	
589	U416	-		S01	
590	U417	-		S01	
591	U418	-		S01	
592	U419	-		S01	
593	U420	-		S01	
594	U426	-		S01	
595	U427	-		S01	
596	U428	-		S01	
597	U429	-		S01	
608	U430	-		S01	
599	U431	-		S01	
600	U432	-		S01	
601	U433	-		S01	
602	U434	-		S01	
603	U435	-		S01	
604	U436	-		S01	
605	U437	-		S01	
606	U438	-		S01	
607	U439	-		S01	
618	U440	-		S01	
609	U442	-		S01	
610	U443	-		S01	
611	U444	-		S01	
612	U446	-		S01	
613	U447	-		S01	
614	U448	-		S01	
615	U449	-		S01	
616	U450	-		S01	
617	U451	-		S01	
628	U452	-		S01	
619	U453	-		S01	
620	U454	-		S01	
621	U455	-		S01	
622	U456	-		S01	
623	U457	-		S01	
624	U458	-		S01	
625	U459	-		S01	
626	U460	-		S01	
627	U461	-		S01	
638	U462	-		S01	
629	U463	-		S01	
630	U464	-		S01	
631	U465	-		S01	
632	U466	-		S01	
633	U467	-		S01	
634	U468	-		S01	
635	U469	-		S01	
636	U470	-		S01	
637	U471	-		S01	
648	U472	-		S01	
639	U473	-		S01	
640	U474	-		S01	
641	U475	-		S01	
642	U476	-		S01	
643	U477	-		S01	
644	U478	-		S01	
645	U479	-		S01	
646	U480	-		S01	
647	U481	-		S01	
658	U482	-		S01	
649	U483	-		S01	
650	U484	-		S01	
651	U485	-		S01	
652	U486	-		S01	
653	U487	-		S01	
654	U488	-		S01	
655	U489	-		S01	
656	U490	-		S01	
657	U491	-		S01	
668	U492	-		S01	
659	U493	-		S01	
660	U494	-		S01	
661	U495	-		S01	
662	U496	-		S01	
663	U497	-		S01	
664	U498	-		S01	
665	U499	-		S01	
666	U500	-		S01	
667	U501	-		S01	
678	U502	-		S01	
669	U503	-		S01	
670	U504	-		S01	
671	U505	-		S01	
672	U506	-		S01	
673	U507	-		S01	
674	U508	-		S01	
675	U509	-		S01	
676	U510	-		S01	
677	U511	-		S01	
688	U512	-		S01	
679	U513	-		S01	
680	U514	-		S01	
681	U515	-		S01	
682	U516	-		S01	
683	U517	-		S01	
684	U518	-		S01	
685	U519	-		S01	
686	U520	-		S01	
687	U521	-		S01	
698	U522	-		S01	
689	U523	-		S01	
690	U524	-		S01	
691	U525	-		S01	
692	U526	-		S01	
693	U527	-		S01	
694	U528	-		S01	
695	U529	-		S01	
696	U530	-		S01	
697	U531	-		S01	
708	U532	-		S01	
699	U533	-		S01	
700	U534	-		S01	
701	U535	-		S01	
702	U536	-		S01	
703	U537	-		S01	
704	U538	-		S01	
705	U539	-		S01	
706	U540	-		S01	
707	U541	-		S01	
718	U542	-		S01	
709	U543	-		S01	
710	U544	-		S01	
711	U545	-		S01	
712	U546	-		S01	
713	U547	-		S01	
714	U548	-		S01	
715	U549	-		S01	
716	U550	-		S01	
717	U551	-		S01	
728	U552	-		S01	
719	U553	-		S01	
720	U554	-		S01	
721	U555	-		S01	
722	U556	-		S01	
723	U557	-		S01	
724	U558	-		S01	
725	U559	-		S01	
726	U560	-		S01	
727	U561	-		S01	
738	U562	-		S01	
729	U563	-		S01	
730	U564	-		S01	
731	U565	-		S01	
732	U566	-		S01	
733	U567	-		S01	
734	U568	-		S01	
735	U569	-		S01	
736	U570	-		S01	
737	U571	-		S01	
748	U572	-		S01	
739	U573	-		S01	
740	U574	-		S01	
741	U575	-		S01	
742	U576	-		S01	
743	U577	-		S01	
744	U578	-		S01	
745	U579	-		S01	
746	U580	-		S01	
747	U581	-		S01	
758	U582	-		S01	
749	U583	-		S01	
750	U584	-		S01	
751	U585	-		S01	
752	U586	-		S01	
753	U587	-		S01	
754	U588	-		S01	
755	U589	-		S01	
756	U590	-		S01	
757	U591	-		S01	
768	U592	-		S01	
759	U593	-		S01	
760	U594	-		S01	
761	U595	-		S01	
762	U596	-		S01	
763	U597	-		S01	
764	U598	-		S01	
765	U599	-		S01	
766	U600	-		S01	
767	U601	-		S01	
778	U602	-		S01	
769	U603	-		S01	
770	U604	-		S01	
771	U605	-		S01	
772	U606	-		S01	
773	U607	-		S01	
774	U608	-		S01	
775	U609	-		S01	
776	U610	-		S01	
777	U611	-		S01	
788	U612	-		S01	
779	U613	-		S01	
780	U614	-		S01	
781	U615	-		S01	
782	U616	-		S01	
783	U617	-		S01	
784	U618	-		S01	
785	U619	-		S01	
786	U620	-		S01	
787	U621	-		S01	
798	U622	-		S01	
789	U623	-		S01	
790	U624	-		S01	
791	U625	-		S01	
792	U626	-		S01	
793	U627	-		S01	
794	U628	-		S01	
795	U629	-		S01	
796	U630	-		S01	
797	U631	-		S01	
808	U632	-		S01	
799	U633	-		S01	
800	U634	-		S01	
801	U635	-		S01	
802	U636	-		S01	
803	U637	-		S01	
804	U638	-		S01	
805	U639	-		S01	
806	U640	-		S01	
807	U641	-		S01	
818	U642	-		S01	
809	U643	-		S01	
810	U644	-		S01	
811	U645	-		S01	
812	U646	-		S01	
813	U647	-		S01	
814	U648	-		S01	
815	U649	-		S01	
816	U650	-		S01	
817	U651	-		S01	
828	U652	-		S01	
819	U653	-		S01	
820	U654	-		S01	
821	U655	-		S01	
822	U656	-		S01	
823	U657	-		S01	
824	U658	-		S01	
825	U659	-		S01	
826	U660	-		S01	
827	U661	-		S01	
838	U662	-		S01	
829	U663	-		S01	
830	U664	-		S01	
831	U665	-		S01	
832	U666	-		S01	
833	U667	-		S01	
834	U668	-		S01	
835	U669	-		S01	
836	U670	-		S01	
837	U671	-		S01	
848	U672	-		S01	
839	U673	-		S01	
840	U674	-		S01	
841	U675	-		S01	
842	U676	-		S01	
843	U677	-		S01	
844	U678	-		S01	
845	U679	-		S01	
846	U680	-		S01	
847	U681	-		S01	
858	U682	-		S01	
849	U683	-		S01	
850	U684	-		S01	
851	U685	-		S01	
852	U686	-		S01	
853	U687	-		S01	
854	U688	-		S01	
855	U689	-		S01	
856	U690	-		S01	
857	U691	-		S01	
868	U692	-		S01	
859	U693	-		S01	
860	U694	-		S01	
861	U695	-		S01	
862	U696	-		S01	
863	U697	-		S01	
864	U698	-		S01	
865	U699	-		S01	
866	U700	-		S01	
867	U701	-		S01	
878	U702	-		S01	
869	U703	-		S01	
870	U704	-		S01	
871	U705	-		S01	
872	U706	-		S01	
873	U707	-		S01	
874	U708	-		S01	
875	U709	-		S01	
876	U710	-		S01	
877	U711	-		S01	
888	U712	-		S01	
879	U713	-		S01	
880	U714	-		S01	
881	U715	-		S01	
882	U716	-		S01	
883	U717	-		S01	
884	U718	-		S01	
885	U719	-		S01	
886	U720	-		S01	
887	U721	-		S01	
898	U722	-		S01	
889	U723	-		S01	
890	U724	-		S01	
891	U725	-		S01	
892	U726	-		S01	
893	U727	-		S01	
894	U728	-		S01	
895	U729	-		S01	
896	U730	-		S01	
897	U731	-		S01	
908	U732	-		S01	
899	U733	-		S01	
900	U734	-		S01	
901	U735	-		S01	
902	U736	-		S01	
903	U737	-		S01	
904	U738	-		S01	
905	U739	-		S01	
906	U740	-		S01	
907	U741	-		S01	
918	U742	-		S01	
909	U743	-		S01	
910	U744	-		S01	
911	U745	-		S01	
912	U746	-		S01	
913	U747	-		S01	
914	U748	-		S01	
915	U749	-		S01	
916	U750	-		S01	
917	U751	-		S01	
928	U752	-		S01	
919	U753	-		S01	
920	U754	-		S01	
921	U755	-		S01	
922	U756	-		S01	
923	U757	-		S01	
924	U758	-		S01	
925	U759	-		S01	
926	U760	-		S01	
927	U761	-		S01	
938	U762	-		S01	
929	U763	-		S01	
930	U764	-		S01	
931	U765	-		S01	
932	U766	-		S01	
933	U767	-		S01	
934	U768	-		S01	
935	U769	-		S01	
936	U770	-		S01	
937	U771	-		S01	
948	U772	-		S01	
939	U773	-		S01	
940	U774	-		S01	
941	U775	-		S01	
942	U776	-		S01	
943	U777	-		S01	
944	U778	-		S01	
945	U779	-		S01	
946	U780	-		S01	
947	U781	-		S01	
958	U782	-		S01	
949	U783	-		S01	
950	U784	-		S01	
951	U785	-		S01	
952	U786	-		S01	
953	U787	-		S01	
954	U788	-		S01	
955	U789	-		S01	
956	U790	-		S01	
957	U791	-		S01	
968	U792	-		S01	
959	U793	-		S01	
960	U794	-		S01	
961	U795	-		S01	
962	U796	-		S01	
963	U797	-		S01	
964	U798	-		S01	
965	U799	-		S01	
966	U800	-		S01	
967	U801	-		S01	
978	U802	-		S01	
969	U803	-		S01	
970	U804	-		S01	
971	U805	-		S01	
972	U806	-		S01	
973	U807	-		S01	
974	U808	-		S01	
975	U809	-		S01	
976	U810	-		S01	
977	U811	-		S01	
988	U812	-		S01	
979	U813	-		S01	
980	U814	-		S01	
981	U815	-		S01	
982	U816	-		S01	
983	U817	-		S01	
984	U818	-		S01	
985	U819	-		S01	
986	U820	-		S01	
987	U821	-		S01	
998	U822	-		S01	
989	U823	-		S01	
990	U824	-		S01	
991	U825	-		S01	
992	U826	-		S01	
993	U827	-		S01	
994	U828	-		S01	
995	U829	-		S01	
996	U830	-		S01	
997	U831	-		S01	
1008	U832	-		S01	
999	U833	-		S01	
1000	U834	-		S01	
1001	U835	-		S01	
1002	U836	-		S01	
1003	U837	-		S01	
1004	U838	-		S01	
1005	U839	-		S01	
1006	U840	-		S01	
1007	U841	-		S01	
1018	U842	-		S01	
1009	U843	-		S01	
1010	U844	-		S01	
1011	U845	-		S01	
1012	U846	-		S01	
1013	U847	-		S01	
1014	U848	-		S01	
1015	U849	-		S01	
1016	U850	-		S01	
1017	U851	-		S01	
1028	U852	-		S01	
1019	U853	-		S01	
1020	U854	-		S01	
1021	U855	-		S01	
1022	U856	-		S01	
1023	U857	-		S01	
1024	U858	-		S01	
1025	U859	-		S01	
1026	U860	-		S01	
1027	U861	-		S01	
1038	U862	-		S01	
1029	U863	-		S01	
1030	U864	-		S01	
1031	U865	-		S01	
1032	U866	-		S01	
1033	U867	-		S01	
1034	U868	-		S01	
1035	U869	-		S01	
1036	U870	-		S01	
1037	U871	-		S01	
1048	U872	-		S01	
1039	U873	-		S01	
1040	U874	-		S01	
1041	U875	-		S01	
1042	U876	-		S01	
1043	U877	-		S01	
1044	U878	-		S01	
1045	U879	-		S01	
1046	U880	-		S01	
1047	U881	-		S01	
1058	U882	-		S01	
1049	U883	-		S01	
1050	U884	-		S01	
1051	U885	-		S01	
1052	U886	-		S01	
1053	U887	-		S01	
1054	U888	-		S01	
1055	U889	-		S01	
1056	U890	-		S01	
1057	U891	-		S01	
1068	U892	-		S01	
1059	U893	-		S01	
1060	U894	-		S01	
1061	U895	-		S01	
1062	U896	-		S01	
1063	U897	-		S01	
1064	U898	-		S01	
1065	U899	-		S01	
1066	U900	-		S01	
1067	U901	-		S01	
1078	U902	-		S01	
1069	U903	-		S01	
1070	U904	-		S01	
1071	U905	-		S01	
1072	U906	-		S01	
1073	U907	-		S01	
1074	U908	-		S01	
1075	U909	-		S01	
1076	U910	-		S01	
1077	U911	-		S01	
1088	U912	-		S01	
1079	U913	-		S01	
1080	U914	-		S01	
1081	U915	-		S01	
1082	U916	-		S01	
1083	U917	-		S01	
1084	U918	-		S01	
1085	U919	-		S01	
1086	U920	-		S01	
1087	U921	-		S01	
1098	U922	-		S01	
1089	U923	-		S01	
1090	U924	-		S01	
1091	U925	-		S01	
1092	U926	-		S01	
1093	U927	-		S01	
1094	U928	-		S01	
1095	U929	-		S01	
1096	U930	-		S01	
1097	U931	-		S01	
1108	U932	-		S01	
1099	U933	-		S01	
1100	U934	-		S01	
1101	U935	-		S01	
1102	U936	-		S01	
1103	U937	-		S01	
1104	U938	-		S01	
1105	U939	-		S01	
1106	U940	-		S01	
1107	U941	-		S01	
1118	U942	-		S01	
1109	U943	-		S01	
1110	U944	-		S01	
1111	U945	-		S01	
1112	U946	-		S01	
1113	U947	-		S01	
1114	U948	-		S01	
1115	U949	-		S01	
1116	U950	-		S01	
1117	U951	-		S01	
1128	U952	-		S01	
1119	U953	-		S01	
1120	U954	-		S01	
1121	U955	-		S01	
1122	U956	-		S01	
1123	U957	-		S01	
1124	U958	-		S01	
1125	U959	-		S01	
1126	U960	-		S01	
1127	U961	-		S01	
1138	U962	-		S01	
1129	U963	-		S01	
1130	U964	-		S01	
1131	U965	-		S01	
1132	U966	-		S01	
1133	U967	-		S01	
1134	U968	-		S01	
1135	U969	-		S01	
1136	U970	-		S01	
1137	U971	-		S01	
1148	U972	-		S01	
1139	U973	-		S01	
1140	U974	-		S01	
1141	U975	-		S01	
1142	U976	-		S01	
1143	U977	-		S01	
1144	U978	-		S01	
1145	U979	-		S01	
1146	U980	-		S01	
1147	U981	-		S01	
1158	U982	-		S01	
1149	U983	-		S01	
1150	U984	-		S01	
1151	U985	-		S01	
1152	U986	-		S01	
1153	U987	-		S01	
1154	U988	-		S01	
1155	U989	-		S01	
1156	U990	-		S01	
1157	U991	-		S01	
1168	U992	-		S01	
1159	U993	-		S01	
1160	U

7. Descriptions of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				1) Process Codes	(2) Process Descriptions (if code is not entered in 7.D1)
359	U035	-		S01	
350	U036	-		S01	
351	U037	-		S01	
352	U038	-		S01	
353	U039	-		S01	
354	U041	-		S01	
355	U042	-		S01	
356	U043	-		S01	
357	U044	-		S01	
358	U045	-		S01	
369	U046	-		S01	
360	U047	-		S01	
361	U048	-		S01	
362	U049	-		S01	
363	U050	-		S01	
364	U051	-		S01	
365	U052	-		S01	
366	U053	-		S01	
367	U055	-		S01	
368	U056	-		S01	
379	U057	-		S01	
370	U058	-		S01	
371	U059	-		S01	
372	U060	-		S01	
373	U061	-		S01	
374	U062	-		S01	
375	U063	-		S01	
376	U064	-		S01	
377	U066	-		S01	
378	U067	-		S01	
389	U068	-		S01	
380	U069	-		S01	
381	U070	-		S01	
382	U071	-		S01	
383	U072	-		S01	
384	U073	-		S01	
385	U074	-		S01	
386	U075	-		S01	
387	U076	-		S01	
388	U077	-		S01	
399	U078	-		S01	
390	U079	-		S01	
391	U080	-		S01	
392	U081	-		S01	
393	U082	-		S01	
394	U083	-		S01	
395	U084	-		S01	
396	U085	-		S01	
397	U086	-		S01	
398	U087	-		S01	
409	U088	-		S01	
400	U089	-		S01	
401	U090	-		S01	
402	U091	-		S01	
403	U092	-		S01	
404	U093	-		S01	
405	U094	-		S01	
406	U095	-		S01	
407	U096	-		S01	
408	U097	-		S01	
419	U098	-		S01	
410	U099	-		S01	
411	U101	-		S01	
412	U102	-		S01	
413	U103	-		S01	
414	U105	-		S01	
415	U106	-		S01	
416	U107	-		S01	
417	U108	-		S01	
418	U109	-		S01	
429	U110	-		S01	
420	U111	-		S01	
421	U112	-		S01	
422	U113	-		S01	
423	U114	-		S01	
424	U115	-		S01	
425	U116	-		S01	
426	U117	-		S01	
427	U118	-		S01	
428	U119	-		S01	
439	U120	-		S01	
430	U121	-		S01	
431	U122	-		S01	
432	U123	-		S01	
433	U124	-		S01	
434	U125	-		S01	
435	U126	-		S01	
436	U127	-		S01	
437	U128	-		S01	
438	U129	-		S01	
449	U130	-		S01	
440	U131	-		S01	
441	U132	-		S01	
442	U133	-		S01	
443	U134	-		S01	
444	U135	-		S01	
445	U136	-		S01	
446	U137	-		S01	
447	U138	-		S01	
448	U139	-		S01	
459	U140	-		S01	
450	U141	-		S01	
451	U142	-		S01	
452	U143	-		S01	
453	U144	-		S01	
454	U145	-		S01	
455	U146	-		S01	
456	U147	-		S01	
457	U148	-		S01	
458	U149	-		S01	
469	U150	-		S01	
460	U151	-		S01	
461	U152	-		S01	
462	U153	-		S01	
463	U154	-		S01	
464	U155	-		S01	
465	U156	-		S01	
466	U157	-		S01	
467	U158	-		S01	
468	U159	-		S01	
479	U160	-		S01	
470	U161	-		S01	
471	U162	-		S01	
472	U163	-		S01	
473	U164	-		S01	
474	U165	-		S01	
475	U166	-		S01	
476	U167	-		S01	
477	U168	-		S01	
478	U169	-		S01	
489	U170	-		S01	
480	U171	-		S01	
481	U172	-		S01	
482	U173	-		S01	
483	U174	-		S01	
484	U176	-		S01	
485	U177	-		S01	
486	U178	-		S01	
487	U179	-		S01	
488	U180	-		S01	
499	U181	-		S01	
490	U182	-		S01	
491	U183	-		S01	
492	U184	-		S01	
493	U185	-		S01	
494	U186	-		S01	
495	U187	-		S01	
496	U188	-		S01	
497	U189	-		S01	
498	U190	-		S01	
509	U191	-		S01	
500	U192	-		S01	
501	U193	-		S01	
502	U194	-		S01	
503	U196	-		S01	
504	U197	-		S01	
505	U200	-		S01	
506	U201	-		S01	
507	U202	-		S01	
508	U203	-		S01	
519	U204	-		S01	
510	U205	-		S01	
511	U206	-		S01	
512	U207	-		S01	
513	U208	-		S01	
514	U209	-		S01	
515	U210	-		S01	
516	U211	-		S01	
517	U213	-		S01	
518	U214	-		S01	
529	U215	-		S01	
520	U216	-		S01	
521	U217	-		S01	
522	U218	-		S01	
523	U219	-		S01	
524	U220	-		S01	
525	U221	-		S01	
526	U222	-		S01	
527	U223	-		S01	
528	U225	-		S01	
539	U226	-		S01	
530	U227	-		S01	
531	U228	-		S01	
532	U234	-		S01	
533	U235	-		S01	
534	U236	-		S01	
535	U237	-		S01	
536	U238	-		S01	
537	U239	-		S01	
538	U240	-		S01	
549	U243	-		S01	
540	U244	-		S01	
541	U246	-		S01	
542	U247	-		S01	
543	U248	-		S01	
544	U249	-		S01	
545	U328	-		S01	
546	U353	-		S01	
547	U359	-		S01	
548	U364	-		S01	
559	U367	-		S01	
550	U372	-		S01	
551	U373	-		S01	
552	U375	-		S01	
553	U376	-		S01	
554	U377	-		S01	
555	U378	-		S01	
556	U379	-		S01	
557	U381	-		S01	
558	U382	-		S01	
569	U383	-		S01	
560	U384	-		S01	
561	U385	-		S01	
562	U386	-		S01	
563	U387	-		S01	
564	U389	-		S01	
565	U390	-		S01	
566	U391	-		S01	
567	U392	-		S01	
568	U393	-		S01	
579	U394	-		S01	
570	U395	-		S01	
571	U396	-		S01	
572	U400	-		S01	
573	U401	-		S01	
574	U402	-		S01	
575	U403	-		S01	
576	U404	-		S01	
577	U405	-		S01	
578	U406	-		S01	
589	U407	-		S01	
580	U409	-		S01	
581	U410	-		S01	
582	U411	-		S01	
583	U412	-		S01	
584	U413	-		S01	
585	U414	-		S01	
586	U415	-		S01	
587	U416	-		S01	
588	U417	-		S01	
599	U418	-		S01	
590	U419	-		S01	
591	U420	-		S01	
592	U422	-		S01	
593	U423	-		S01	
594	U424	-		S01	
595	U426	-		S01	
596	U427	-		S01	
597	U428	-		S01	
598	U429	-		S01	
609	U430	-		S01	
600	U431	-		S01	
601	U432	-		S01	
602	U433	-		S01	
603	U434	-		S01	
604	U435	-		S01	
605	U436	-		S01	
606	U437	-		S01	
607	U438	-		S01	
608	U439	-		S01	
619	U440	-		S01	
610	U441	-		S01	
611	U442	-		S01	
612	U443	-		S01	
613	U444	-		S01	
614	U446	-		S01	
615	U447	-		S01	
616	U448	-		S01	
617	U449	-		S01	
618	U450	-		S01	
629	U451	-		S01	
620	U452	-		S01	
621	U453	-		S01	
622	U454	-		S01	
623	U455	-		S01	
624	U456	-		S01	
625	U457	-		S01	
626	U458	-		S01	
627	U459	-		S01	
628	U460	-		S01	
639	U461	-		S01	
630	U462	-		S01	
631	U463	-		S01	
632	U464	-		S01	
633	U465	-		S01	
634	U466	-		S01	
635	U467	-		S01	
636	U468	-		S01	
637	U469	-		S01	
638	U470	-		S01	
649	U471	-		S01	
640	U472	-		S01	
641	U473	-		S01	
642	U474	-		S01	
643	U475	-		S01	
644	U476	-		S01	
645	U477	-		S01	
646	U478	-		S01	
647	U479	-		S01	
648	U480	-		S01	
659	U481	-		S01	
650	U482	-		S01	
651	U483	-		S01	
652	U484	-		S01	
653	U485	-		S01	
654	U486	-		S01	
655	U487	-		S01	
656	U488	-		S01	
657	U489	-		S01	
658	U490	-		S01	
669	U491	-		S01	
660	U492	-		S01	
661	U493	-		S01	
662	U494	-		S01	
663	U495	-		S01	
664	U496	-		S01	
665	U497	-		S01	
666	U498	-		S01	
667	U499	-		S01	
668	U500	-		S01	
679	U501	-		S01	
670	U502	-		S01	
671	U503	-		S01	
672	U504	-		S01	
673	U505	-		S01	
674	U506	-		S01	
675	U507	-		S01	
676	U508	-		S01	
677	U509	-		S01	
678	U510	-		S01	
689	U511	-		S01	
680	U512	-		S01	
681	U513	-		S01	
682	U514	-		S01	
683	U515	-		S01	
684	U516	-		S01	
685	U517	-		S01	
686	U518	-		S01	
687	U519	-		S01	
688	U520	-		S01	
699	U521	-		S01	
690	U522	-		S01	
691	U523	-		S01	
692	U524	-		S01	
693	U525	-		S01	
694	U526	-		S01	
695	U527	-		S01	
696	U528	-		S01	
697	U529	-		S01	
698	U530	-		S01	
709	U531	-		S01	
700	U532	-		S01	
701	U533	-		S01	
702	U534	-		S01	
703	U535	-		S01	
704	U536	-		S01	
705	U537	-		S01	
706	U538	-		S01	
707	U539	-		S01	
708	U540	-		S01	
719	U541	-		S01	
710	U542	-		S01	
711	U543	-		S01	
712	U544	-		S01	
713	U545	-		S01	
714	U546	-		S01	
715	U547	-		S01	
716	U548	-		S01	
717	U549	-		S01	
718	U550	-		S01	
729	U551	-		S01	
720	U552	-		S01	
721	U553	-		S01	
722	U554	-		S01	
723	U555	-		S01	
724	U556	-		S01	
725	U557	-		S01	
726	U558	-		S01	
727	U559	-		S01	
728	U560	-		S01	
739	U561	-		S01	
730	U562	-		S01	
731	U563	-		S01	
732	U564	-		S01	
733	U565	-		S01	
734	U566	-		S01	
735	U567	-		S01	
736	U568	-		S01	
737	U569	-		S01	
738	U570	-		S01	
749	U571	-		S01	
740	U572	-		S01	
741	U573	-		S01	
742	U574	-		S01	
743	U575	-		S01	
744	U576	-		S01	
745	U577	-		S01	
746	U578	-		S01	
747	U579	-		S01	
748	U580	-		S01	
759	U581	-		S01	
750	U582	-		S01	
751	U583	-		S01	
752	U584	-		S01	
753	U585	-		S01	
754	U586	-		S01	
755	U587	-		S01	
756	U588	-		S01	
757	U589	-		S01	
758	U590	-		S01	
769	U591	-		S01	
760	U592	-		S01	
761	U593	-		S01	
762	U594	-		S01	
763	U595	-		S01	
764	U596	-		S01	
765	U597	-		S01	
766	U598	-		S01	
767	U599	-		S01	
768	U600	-		S01	
779	U601	-		S01	
770	U602	-		S01	
771	U603	-		S01	
772	U604	-		S01	
773	U605	-		S01	
774	U606	-		S01	
775	U607	-		S01	
776	U608	-		S01	
777	U609	-		S01	
778	U610	-		S01	
789	U611	-		S01	
780	U612	-		S01	
781	U613	-		S01	
782	U614	-		S01	
783	U615	-		S01	
784	U616	-		S01	
785	U617	-		S01	
786	U618	-		S01	
787	U619	-		S01	
788	U620	-		S01	
799	U621	-		S01	
790	U622	-		S01	
791	U623	-		S01	
792	U624	-		S01	
793	U625	-		S01	
794	U626	-		S01	
795	U627	-		S01	
796	U628	-		S01	
797	U629	-		S01	
798	U630	-		S01	
809	U631	-		S01	
800	U632	-		S01	
801	U633	-		S01	
802	U634	-		S01	
803	U635	-		S01	
804	U636	-		S01	
805	U637	-		S01	
806	U638	-		S01	
807	U639	-		S01	
808	U640	-		S01	
819	U641	-		S01	
810	U642	-		S01	
811	U643	-		S01	
812	U644	-		S01	
813	U645	-		S01	
814	U646	-		S01	
815	U647	-		S01	
816	U648	-		S01	
817	U649	-		S01	
818	U650	-		S01	
829	U651	-		S01	
820	U652	-		S01	
821	U653	-		S01	
822	U654	-		S01	
823	U655	-		S01	
824	U656	-		S01	
825	U657	-		S01	
826	U658	-		S01	
827	U659	-		S01	
828	U660	-		S01	
839	U661	-		S01	
830	U662	-		S01	
831	U663	-		S01	
832	U664	-		S01	
833	U665	-		S01	
834	U666	-		S01	
835	U667	-		S01	
836	U668	-		S01	
837	U669	-		S01	
838	U670	-		S01	
849	U671	-		S01	
840	U672	-		S01	
841	U673	-		S01	
842	U674	-		S01	
843	U675	-		S01	
844	U676	-		S01	
845	U677	-		S01	
846	U678	-		S01	
847	U679	-		S01	
848	U680	-		S01	
859	U681	-		S01	
850	U682	-		S01	
851	U683	-		S01	
852	U684	-		S01	
853	U685	-		S01	
854	U686	-		S01	
855	U687	-		S01	
856	U688	-		S01	
857	U689	-		S01	
858	U690	-		S01	
869	U691	-		S01	
860	U692	-		S01	
861	U693	-		S01	
862	U694	-		S01	
863	U695	-		S01	
864	U696	-		S01	
865	U697	-		S01	
866	U698	-		S01	
867	U699	-		S01	
868	U700	-		S01	
879	U701	-		S01	
870	U702	-		S01	
871	U703	-		S01	
872	U704	-		S01	
873	U705	-		S01	
874	U706	-		S01	
875	U707	-		S01	
876	U708	-		S01	
877	U709	-		S01	
878	U710	-		S01	
889	U711	-		S01	
880	U712	-		S01	
881	U713	-		S01	
882	U714	-		S01	
883	U715	-		S01	
884	U716	-		S01	
885	U717	-		S01	
886	U718	-		S01	
887	U719	-		S01	
888	U720	-		S01	
899	U721	-		S01	
890	U722	-		S01	
891	U723	-		S01	
892	U724	-		S01	
893	U725	-		S01	
894	U726	-		S01	
895	U727	-		S01	
896	U728	-		S01	
897	U729	-		S01	
898	U730	-		S01	
909	U731	-		S01	
900	U732	-		S01	
901	U733	-		S01	
902	U734	-		S01	
903	U735	-		S01	
904	U736	-		S01	
905	U737	-		S01	
906	U738	-		S01	
907	U739	-		S01	
908	U740	-		S01	
919	U741	-		S01	
910	U742	-		S01	
911	U743	-		S01	
912	U744	-		S01	
913	U745	-		S01	
914	U746	-		S01	
915	U747	-		S01	
916	U748	-		S01	
917	U749	-		S01	
918	U750	-		S01	
929	U751	-		S01	
920	U752	-		S01	
921	U753	-		S01	
922	U754	-		S01	
923	U755	-		S01	
924	U756	-		S01	
925	U757	-		S01	
926	U758	-		S01	
927	U759	-		S01	
928	U760	-		S01	
939	U761	-		S01	
930	U762	-		S01	
931	U763	-		S01	
932	U764	-		S01	
933	U765	-		S01	
934	U766	-		S01	
935	U767	-		S01	
936	U768	-		S01	
937	U769	-		S01	
938	U770	-		S01	
949	U771	-		S01	
940	U772	-		S01	
941	U773	-		S01	
942	U774	-		S01	
943	U775	-		S01	
944	U776	-		S01	
945	U777	-		S01	
946	U778	-		S01	
947	U779	-		S01	
948	U780	-		S01	
959	U781	-		S01	
950	U782	-		S01	
951	U783	-		S01	
952	U784	-		S01	
953	U785	-		S01	
954	U786	-		S01	
955	U787	-		S01	
956	U788	-		S01	
957	U789	-		S01	
958	U790	-		S01	
969	U791	-		S01	
960	U792	-		S01	
961	U793	-		S01	
962	U794	-		S01	
963	U795	-		S01	
964	U796	-		S01	
965	U797	-		S01	
966	U798	-		S01	
967	U799	-		S01	
968	U800	-		S01	
979	U801	-		S01	
970	U802	-		S01	
971	U803	-		S01	
972	U804	-		S01	
973	U805	-		S01	
974	U806	-		S01	
975	U807	-		S01	
976	U808	-		S01	
977	U809	-		S01	
978	U810	-		S01	
989	U811	-		S01	
980	U812	-		S01	
981	U813	-		S01	
982	U814	-		S01	
983	U815	-		S01	
984	U816	-		S01	
985	U817	-		S01	
986	U818	-		S01	
987	U819	-		S01	
988	U820	-		S01	
999	U821	-		S01	
990	U822	-		S01	
991	U823	-		S01	
992	U824	-		S01	
993	U825	-		S01	
994	U826	-		S01	
995	U827	-		S01	
996	U828	-		S01	
997	U829	-		S01	
998	U830	-		S01	
1009	U831	-		S01	
1000	U832	-		S01	
1001	U833	-		S01	
1002	U834	-		S01	
1003	U835	-		S01	
1004	U836	-		S01	
1005	U837	-		S01	
1006	U838	-		S01	
1007	U839	-		S01	
1008	U840	-		S01	
1019	U841	-		S01	
1010	U842	-		S01	
1011	U843	-		S01	
1012	U844	-		S01	
1013	U845	-		S01	
1014	U846	-		S01	
1015	U847	-		S01	
1016	U848	-		S01	
1017	U849	-		S01	
1018	U850	-		S01	
1029	U851	-		S01	
1020	U852	-		S01	
1021	U853	-		S01	
1022	U854	-		S01	
1023	U855	-		S01	
1024	U856	-		S01	
1025	U857	-		S01	
1026	U858	-		S01	
1027	U859	-		S01	
1028	U860	-		S01	
1039	U861	-		S01	
1030	U862	-		S01	
1031	U863	-		S01	
1032	U864	-		S01	
1033	U865	-		S01	
1034	U866	-		S01	
1035	U867	-		S01	
1036	U868	-		S01	
1037	U869	-		S01	
1038	U870	-		S01	
1049	U871	-		S01	
1040	U872	-		S01	
1041	U873	-		S01	
1042	U874	-		S01	
1043	U875	-		S01	
1044	U876	-		S01	
1045	U877	-		S01	
1046	U878	-		S01	
1047	U879	-		S01	
1048	U880	-		S01	
1059	U881	-		S01	
1050	U882	-		S01	
1051	U883	-		S01	
1052	U884	-		S01	
1053	U885	-		S01	
1054	U886	-		S01	
1055	U887	-		S01	
1056	U888	-		S01	
1057	U889	-		S01	
1058	U890	-		S01	
1069	U891	-		S01	
1060	U892	-		S01	
1061	U893	-		S01	
1062	U894	-		S01	
1063	U895	-		S01	
1064	U896	-		S01	
1065	U897	-		S01	
1066	U898	-		S01	
1067	U899	-		S01	
1068	U900	-		S01	
1079	U901	-		S01	
1070	U902	-		S01	
1071	U903	-		S01	
1072	U904	-		S01	
1073	U905	-		S01	
1074	U906	-		S01	
1075	U907	-		S01	
1076	U908	-		S01	
1077	U909	-		S01	
1078	U910	-		S01	
1089	U911	-		S01	
1080	U912	-		S01	
1081	U913	-		S01	
1082	U914	-		S01	
1083	U915	-		S01	
1084	U916	-		S01	
1085	U917	-		S01	
1086	U918	-		S01	
1087	U919	-		S01	
1088	U920	-		S01	
1099	U921	-		S01	
1090	U922	-		S01	
1091	U923	-		S01	
1092	U924	-		S01	
1093	U925	-		S01	
1094	U926	-		S01	
1095	U927	-		S01	
1096	U928	-		S01	
1097	U929	-		S01	
1098	U930	-		S01	
1109	U931	-		S01	
1100	U932	-		S01	
1101	U933	-		S01	
1102	U934	-		S01	
1103	U935	-		S01	
1104	U936	-		S01	
1105	U937	-		S01	
1106	U938	-		S01	
1107	U939	-		S01	
1108	U940	-		S01	
1119	U941	-		S01	
1110	U942	-		S01	
1111	U943	-		S01	
1112	U944	-		S01	
1113	U945	-		S01	
1114	U946	-		S01	
1115	U947	-		S01	
1116	U948	-		S01	
1117	U949	-		S01	
1118	U950	-		S01	
1129	U951	-		S01	
1120	U952	-		S01	
1121	U953	-		S01	
1122	U954	-		S01	
1123	U955	-		S01	
1124	U956	-		S01	
1125	U957	-		S01	
1126	U958	-		S01	
1127	U959	-		S01	
1128	U960	-		S01	
1139	U961	-		S01	
1130	U962	-		S01	
1131	U963	-		S01	
1132	U964	-		S01	
1133	U965	-		S01	
1134	U966	-		S01	
1135	U967	-		S01	
1136	U968	-		S01	
1137	U969	-		S01	
1138	U970	-		S01	
1149	U971	-		S01	
1140	U972	-		S01	
1141	U973	-		S01	
1142	U974	-		S01	
1143	U975	-		S01	
1144	U976	-		S01	
1145	U977	-		S01	
1146	U978	-		S01	
1147	U979	-		S01	
1148	U980	-		S01	
1159	U981	-		S01	
1150	U982	-		S01	
1151	U983	-		S01	
1152	U984	-		S01	
1153	U985	-		S01	
1154	U986	-		S01	
1155	U987	-		S01	
1156	U988	-		S01	
1157	U989	-		S01	
1158	U990	-		S01	
1169	U991	-		S01	
1160	U992	-		S01	
1161	U993	-		S01	
1162	U994	-		S01	
1163	U995	-		S01	
1164	U996	-		S01	
1165	U997	-		S01	
1166	U998	-		S01	
1167	U999	-		S01	
1168	U1000	-		S01	

7. Descriptions of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				1) Process Codes	(2) Process Descriptions (if code is not entered in 7.D1)
407	U096	-		S01	
408	U097	-		S01	
419	U098	-		S01	
410	U099	-		S01	
411	U101	-		S01	
412	U102	-		S01	
413	U103	-		S01	
414	U105	-		S01	
415	U106	-		S01	
416	U107	-		S01	
417	U108	-		S01	
418	U109	-		S01	
229	U110	-		S01	
220	U111	-		S01	
221	U112	-		S01	
222	U113	-		S01	
223	U114	-		S01	
224	U115	-		S01	
225	U116	-		S01	
226	U117	-		S01	
227	U118	-		S01	
228	U119	-		S01	
339	U120	-		S01	
330	U121	-		S01	
331	U122	-		S01	
332	U123	-		S01	
333	U124	-		S01	
334	U125	-		S01	
335	U126	-		S01	
336	U127	-		S01	
337	U128	-		S01	
338	U129	-		S01	
449	U130	-		S01	
440	U131	-		S01	
441	U132	-		S01	
442	U133	-		S01	
443	U134	-		S01	
444	U135	-		S01	
445	U136	-		S01	
446	U137	-		S01	
447	U138	-		S01	
448	U139	-		S01	
559	U140	-		S01	
550	U141	-		S01	
551	U142	-		S01	
552	U143	-		S01	
553	U144	-		S01	
554	U145	-		S01	
555	U146	-		S01	
556	U147	-		S01	
557	U148	-		S01	
558	U149	-		S01	
669	U150	-		S01	
660	U151	-		S01	
661	U152	-		S01	
662	U153	-		S01	
663	U154	-		S01	
664	U155	-		S01	
665	U156	-		S01	
666	U157	-		S01	
667	U158	-		S01	
668	U159	-		S01	
779	U160	-		S01	
770	U161	-		S01	
771	U162	-		S01	
772	U163	-		S01	
773	U164	-		S01	
774	U165	-		S01	
775	U166	-		S01	
776	U167	-		S01	
777	U168	-		S01	
778	U169	-		S01	
889	U170	-		S01	
880	U171	-		S01	
881	U172	-		S01	
882	U173	-		S01	
883	U174	-		S01	
884	U175	-		S01	
885	U176	-		S01	
886	U177	-		S01	
887	U178	-		S01	
888	U179	-		S01	
999	U180	-		S01	
990	U181	-		S01	
991	U182	-		S01	
992	U183	-		S01	
993	U184	-		S01	
994	U185	-		S01	
995	U186	-		S01	
996	U187	-		S01	
997	U188	-		S01	
998	U189	-		S01	
10 9	U190	-		S01	
10 0	U191	-		S01	
10 1	U192	-		S01	
10 2	U193	-		S01	
10 3	U194	-		S01	
10 4	U195	-		S01	
10 5	U196	-		S01	
10 6	U197	-		S01	
10 7	U200	-		S01	
10 8	U201	-		S01	
119	U202	-		S01	
110	U203	-		S01	
111	U204	-		S01	
112	U205	-		S01	
113	U206	-		S01	
114	U207	-		S01	
115	U208	-		S01	
116	U209	-		S01	
117	U210	-		S01	
118	U211	-		S01	
229	U213	-		S01	
220	U214	-		S01	
221	U215	-		S01	
222	U216	-		S01	
223	U217	-		S01	
224	U218	-		S01	
225	U219	-		S01	
226	U220	-		S01	
227	U221	-		S01	
228	U222	-		S01	
339	U223	-		S01	
330	U225	-		S01	
331	U226	-		S01	
332	U227	-		S01	
333	U228	-		S01	
334	U234	-		S01	
335	U235	-		S01	
336	U236	-		S01	
337	U237	-		S01	
338	U238	-		S01	
449	U239	-		S01	
440	U240	-		S01	
441	U243	-		S01	
442	U244	-		S01	
443	U246	-		S01	
444	U247	-		S01	
445	U248	-		S01	
446	U249	-		S01	
447	U328	-		S01	
448	U353	-		S01	
559	U359	-		S01	
550	U364	-		S01	
551	U367	-		S01	
552	U372	-		S01	
553	U373	-		S01	
554	U375	-		S01	
555	U376	-		S01	
556	U377	-		S01	
557	U378	-		S01	
558	U379	-		S01	
669	U381	-		S01	
660	U382	-		S01	
661	U383	-		S01	
662	U384	-		S01	
663	U385	-		S01	
664	U386	-		S01	
665	U387	-		S01	
666	U389	-		S01	
667	U390	-		S01	
668	U391	-		S01	
779	U392	-		S01	
770	U393	-		S01	
771	U394	-		S01	
772	U395	-		S01	
773	U396	-		S01	
774	U400	-		S01	
775	U401	-		S01	
776	U402	-		S01	
777	U403	-		S01	
778	U404	-		S01	
889	U407	-		S01	
880	U409	-		S01	
881	U410	-		S01	
882	U411	-		S01	
883	U328	-		S01	
884	U353	-		S01	
885	U359	-		S01	
886	U364	-		S01	
887	U367	-		S01	
888	U372	-		S01	
999	U373	-		S01	
990	U375	-		S01	
991	U376	-		S01	
992	U377	-		S01	
993	U378	-		S01	
994	U379	-		S01	
995	U381	-		S01	
996	U382	-		S01	
997	U383	-		S01	
998	U384	-		S01	
10 9	U385	-		S01	
10 0	U386	-		S01	
10 1	U387	-		S01	
10 2	U389	-		S01	
10 3	U390	-		S01	
10 4	U391	-		S01	
10 5	U392	-		S01	
10 6	U393	-		S01	
10 7	U394	-		S01	
10 8	U395	-		S01	
119	U396	-		S01	
110	U400	-		S01	
111	U401	-		S01	
112	U402	-		S01	
113	U403	-		S01	
114	U404	-		S01	
115	U407	-		S01	
116	U409	-		S01	
117	U410	-		S01	
118	U411	-		S01	
229	U328	-		S01	
220	U353	-		S01	
221	U359	-		S01	
222	U364	-		S01	
223	U367	-		S01	
224	U372	-		S01	
225	U373	-		S01	
226	U375	-		S01	
227	U376	-		S01	
228	U377	-		S01	
339	U378	-		S01	
330	U379	-		S01	
331	U381	-		S01	
332	U382	-		S01	
333	U383	-		S01	
334	U384	-		S01	
335	U385	-		S01	
336	U386	-		S01	
337	U387	-		S01	
338	U389	-		S01	
449	U390	-		S01	
440	U391	-		S01	
441	U392	-		S01	
442	U393	-		S01	
443	U394	-		S01	
444	U395	-		S01	
445	U396	-		S01	
446	U400	-		S01	
447	U401	-		S01	
448	U402	-		S01	
559	U403	-		S01	
550	U404	-		S01	
551	U407	-		S01	
552	U409	-		S01	
553	U410	-		S01	
554	U411	-		S01	
555	U328	-		S01	
556	U353	-		S01	
557	U359	-		S01	
558	U364	-		S01	
669	U367	-		S01	
660	U372	-		S01	
661	U373	-		S01	
662	U375	-		S01	
663	U376	-		S01	
664	U377	-		S01	
665	U378	-		S01	
666	U379	-		S01	
667	U381	-		S01	
668	U382	-		S01	
779	U383	-		S01	
770	U384	-		S01	
771	U385	-		S01	
772	U386	-		S01	
773	U387	-		S01	
774	U389	-		S01	
775	U390	-		S01	
776	U391	-		S01	
777	U392	-		S01	
778	U393	-		S01	
889	U394	-		S01	
880	U395	-		S01	
881	U396	-		S01	
882	U400	-		S01	
883	U401	-		S01	
884	U402	-		S01	
885	U403	-		S01	
886	U404	-		S01	
887	U407	-		S01	
888	U409	-		S01	
999	U410	-		S01	
990	U411	-		S01	
991	U328	-		S01	
992	U353	-		S01	
993	U359	-		S01	
994	U364	-		S01	
995	U367	-		S01	
996	U372	-		S01	
997	U373	-		S01	
998	U375	-		S01	
10 9	U376	-		S01	
10 0	U377	-		S01	
10 1	U378	-		S01	
10 2	U379	-		S01	
10 3	U381	-		S01	
10 4	U382	-		S01	
10 5	U383	-		S01	
10 6	U384	-		S01	
10 7	U385	-		S01	
10 8	U386	-		S01	
119	U387	-		S01	
110	U389	-		S01	
111	U390	-		S01	
112	U391	-		S01	
113	U392	-		S01	
114	U393	-		S01	
115	U394	-		S01	
116	U395	-		S01	
117	U396	-		S01	
118	U400	-		S01	
229	U401	-		S01	
220	U402	-		S01	
221	U403	-		S01	
222	U404	-		S01	
223	U407	-		S01	
224	U409	-		S01	
225	U410	-		S01	
226	U411	-		S01	
227	U328	-		S01	
228	U353	-		S01	
339	U359	-		S01	
330	U364	-		S01	
331	U367	-		S01	
332	U372	-		S01	
333	U373	-		S01	
334	U375	-		S01	
335	U376	-		S01	
336	U377	-		S01	
337	U378	-		S01	
338	U379	-		S01	
449	U381	-		S01	
440	U382	-		S01	
441	U383	-		S01	
442	U384	-		S01	
443	U385	-		S01	
444	U386	-		S01	
445	U387	-		S01	
446	U389	-		S01	
447	U390	-		S01	
448	U391	-		S01	
559	U392	-		S01	
550	U393	-		S01	
551	U394	-		S01	
552	U395	-		S01	
553	U396	-		S01	
554	U400	-		S01	
555	U401	-		S01	
556	U402	-		S01	
557	U403	-		S01	
558	U404	-		S01	
669	U407	-		S01	
660	U409	-		S01	
661	U410	-		S01	
662	U411	-		S01	
663	U328	-		S01	
664	U353	-		S01	
665	U359	-		S01	
666	U364	-		S01	
667	U367	-		S01	
668	U372	-		S01	
779	U373	-		S01	
770	U375	-		S01	
771	U376	-		S01	
772	U377	-		S01	
773	U378	-		S01	
774	U379	-		S01	
775	U381	-		S01	
776	U382	-		S01	
777	U383	-		S01	
778	U384	-		S01	
889	U385	-		S01	
880	U386	-		S01	
881	U387	-		S01	
882	U389	-		S01	
883	U390	-		S01	
884	U391	-		S01	
885	U392	-		S01	
886	U393	-		S01	
887	U394	-		S01	
888	U395	-		S01	
999	U396	-		S01	
990	U400	-		S01	
991	U401	-		S01	
992	U402	-		S01	
993	U403	-		S01	
994	U404	-		S01	
995	U407	-		S01	
996	U409	-		S01	
997	U410	-		S01	
998	U411	-		S01	
10 9	U328	-		S01	
10 0	U353	-		S01	
10 1	U359	-		S01	
10 2	U364	-		S01	
10 3	U367	-		S01	
10 4	U372	-		S01	
10 5	U373	-		S01	
10 6	U375	-		S01	
10 7	U376	-		S01	
10 8	U377	-		S01	
119	U378	-		S01	
110	U379	-		S01	
111	U381	-		S01	
112	U382	-		S01	
113	U383	-		S01	
114	U384	-		S01	
115	U385	-		S01	
116	U386	-		S01	
117	U387	-		S01	
118	U389	-		S01	
229	U390	-		S01	
220	U391	-		S01	
221	U392	-		S01	
222	U393	-		S01	
223	U394	-		S01	
224	U395	-		S01	
225	U396	-		S01	
226	U400	-		S01	
227	U401	-		S01	
228	U402	-		S01	
339	U403	-		S01	
330	U404	-		S01	
331	U407	-		S01	
332	U409	-		S01	
333	U410	-		S01	
334	U411	-		S01	
335	U328	-		S01	
336	U353	-		S01	
337	U359	-		S01	
338	U364	-		S01	
449	U367	-		S01	
440	U372	-		S01	
441	U373	-		S01	
442	U375	-		S01	
443	U376	-		S01	
444	U377	-		S01	
445	U378	-		S01	
446	U379	-		S01	
447	U381	-		S01	
448	U382	-		S01	
559	U383	-		S01	
550	U384	-		S01	
551	U385	-		S01	
552	U386	-		S01	
553	U387	-		S01	
554	U389	-		S01	
555	U390	-		S01	
556	U391	-		S01	
557	U392	-		S01	
558	U393	-		S01	
669	U394	-		S01	
660	U395	-		S01	
661	U396	-		S01	
662	U400	-		S01	
663	U401	-		S01	
664	U402	-		S01	
665	U403	-		S01	
666	U404	-		S01	
667	U407	-		S01	
668	U409	-		S01	
779	U410	-		S01	
770	U411	-		S01	
771	U328	-		S01	
772	U353	-		S01	
773	U359	-		S01	
774	U364	-		S01	
775	U367	-		S01	
776	U372	-		S01	
777	U373	-		S01	
778	U375	-		S01	
889	U376	-		S01	
880	U377	-		S01	
881	U378	-		S01	
882	U379	-		S01	
883	U381	-		S01	
884	U382	-		S01	
885	U383	-		S01	
886	U384	-		S01	
887	U385	-		S01	
888	U386	-		S01	
999	U387	-		S01	
990	U389	-		S01	
991	U390	-		S01	
992	U391	-		S01	
993	U392	-		S01	
994	U393	-		S01	
995	U394	-		S01	
996	U395	-		S01	
997	U396	-		S01	
998	U400	-		S01	
10 9	U401	-		S01	
10 0	U402	-		S01	
10 1	U403	-		S01	
10 2	U404	-		S01	
10 3	U407	-		S01	
10 4	U409	-		S01	
10 5	U410	-		S01	
10 6	U411	-		S01	
10 7	U328	-		S01	
10 8	U353	-		S01	
119	U359	-		S01	
110	U364	-		S01	
111	U367	-		S01	
112	U372	-		S01	
113	U373	-		S01	
114	U375	-		S01	
115	U376	-		S01	
116	U377	-		S01	
117	U378	-		S01	
118	U379	-		S01	
229	U381	-		S01	
220	U382	-		S01	
221	U383	-		S01	
222	U384	-		S01	
223	U385	-		S01	
224	U386	-		S01	
225	U387	-		S01	
226	U389	-		S01	
227	U390	-		S01	
228	U391	-		S01	
339	U392	-		S01	
330	U393	-		S01	
331	U394	-		S01	
332	U395	-		S01	
333	U396	-		S01	
334	U400	-		S01	
335	U401	-		S01	
336	U402	-		S01	
337	U403	-		S01	
338	U404	-		S01	
449	U407	-		S01	
440	U409	-		S01	
441	U410	-		S01	
442	U411	-		S01	
443	U328	-		S01	
444	U353	-		S01	
445	U359	-		S01	
446	U364	-		S01	
447	U367	-		S01	
448	U372	-		S01	
559	U373	-		S01	
550	U375	-		S01	
551	U376	-		S01	
552	U377	-		S01	
553	U378	-		S01	
554	U379	-		S01	
555	U381	-		S01	
556	U382	-		S01	
557	U383	-		S01	
558	U384	-		S01	
669	U385	-		S01	
660	U386	-		S01	
661	U387	-		S01	
662	U389	-		S01	
663	U390	-		S01	
664	U391	-		S01	
665	U392	-		S01	
666	U393	-		S01	
667	U394	-		S01	
668	U395	-		S01	
779	U396	-		S01	
770	U400	-		S01	
771	U401	-		S01	
772	U402	-		S01	
773	U403	-		S01	
774	U404	-		S01	
775	U407	-		S01	
776	U409	-		S01	
777	U410	-		S01	
778	U411	-		S01	
889	U328	-		S01	
880	U353	-		S01	
881	U359	-		S01	
882	U364	-		S01	
883	U367	-		S01	
884	U372	-		S01	
885	U373	-		S01	
886	U375	-		S01	
887	U376	-		S01	
888	U377	-		S01	
999	U378	-		S01	
990	U379	-		S01	
991	U381	-		S01	
992	U382	-		S01	
993	U383	-		S01	
994	U384	-		S01	
995	U385	-		S01	
996	U386	-		S01	
997	U387	-		S01	
998	U389	-		S01	
10 9	U390	-		S01	
10 0	U391	-		S01	
10 1	U392	-		S01	
10 2	U393	-		S01	
10 3	U394	-		S01	
10 4	U395	-		S01	
10 5	U396	-		S01	
10 6	U400	-		S01	
10 7	U401	-		S01	
10 8	U402	-		S01	
119	U403	-		S01	
110	U404	-		S01	
111	U407	-		S01	
112	U409	-		S01	
113	U410	-		S01	
114	U411	-		S01	
115	U328	-		S01	
116	U353	-		S01	
117	U359	-		S01	
118	U364	-		S01	
229	U367	-		S01	
220	U372	-		S01	
221	U373	-		S01	
222	U375	-		S01	
223	U376	-		S01	
224	U377	-		S01	
225	U378	-		S01	
226	U379	-		S01	
227	U381	-		S01	
228	U382	-		S01	
339	U383	-		S01	
330	U384	-		S01	
331	U385	-		S01	
332	U386	-		S01	
333	U387	-		S01	
334	U389	-		S01	
335	U390	-		S01	
336	U391	-		S01	
337	U392	-		S01	
338	U393	-		S01	
449	U394	-		S01	
440	U395	-		S01	
441	U396	-		S01	
442	U400	-		S01	
443	U401	-		S01	
444	U402	-		S01	
445	U403	-		S01	
446	U404	-		S01	
447	U407	-		S01	
448	U409	-		S01	
559	U410	-		S01	
550	U411	-		S01	
551	U328	-		S01	
552	U353	-		S01	
553	U359	-		S01	
554	U364	-		S01	
555	U367	-		S01	
556	U372	-		S01	
557	U373	-		S01	
558	U375	-		S01	
669	U376	-		S01	
660	U377	-		S01	
661	U378	-		S01	
662	U379	-		S01	
663	U381	-		S01	
664	U382	-		S01	
665	U383	-		S01	
666	U384	-		S01	
667	U385	-		S01	
668	U386	-		S01	
779	U387	-		S01	
770	U389	-		S01	
771	U390	-		S01	
772	U391	-		S01	
773	U392	-		S01	
774	U393	-		S01	
775	U394	-		S01	
776	U395	-		S01	
777	U396	-		S01	
778	U400	-		S01	
889	U401	-		S01	
880	U402	-		S01	
881	U403	-		S01	
882	U404	-		S01	
883	U407	-		S01	
884	U409	-		S01	
885	U410	-		S01	
886	U411	-		S01	
887	U328	-		S01	
888	U353	-		S01	
999	U359	-		S01	
990	U364	-		S01	
991	U367	-		S01	
992	U372	-		S01	
993	U373	-		S01	
994	U375	-		S01	
995	U376	-		S01	
996	U377	-		S01	
997	U378	-		S01	
998	U379	-		S01	
10 9	U381	-		S01	
10 0	U382	-		S01	
10 1	U383	-		S01	
10 2	U384	-		S01	
10 3	U385	-		S01	
10 4	U386	-		S01	
10 5	U387	-		S01	
10 6	U389	-		S01	
10 7	U390	-		S01	
10 8	U391	-		S01	
119	U392	-		S01	
110	U393	-		S01	
111	U394	-		S01	
112	U395	-		S01	
113	U396	-		S01	
114	U400	-		S01	
115	U401	-		S01	
116	U402	-		S01	
117	U403	-		S01	
118	U404	-		S01	
229	U407	-		S01	
220	U409	-		S01	
221	U410	-		S01	
222	U411	-		S01	
223	U328	-		S01	
224	U353	-		S01	
225	U359	-		S01	
226	U364	-		S01	
227	U367	-		S01	
228	U372	-		S01	
339	U373	-		S01	
330	U375	-		S01	
331	U376	-		S01	
332	U377	-		S01	
333	U378	-		S01	
334	U379	-		S01	
335	U381	-		S01	
336	U382	-		S01	
337	U383	-		S01	
338	U384	-		S01	
449	U385	-		S01	
440	U386	-		S01	
441	U387	-		S01	
442	U389	-		S01	
443	U390	-		S01	
444	U391	-		S01	
445	U392	-		S01	
446	U393	-		S01	
447	U394	-		S01	
448	U395	-		S01	
559	U396	-		S01	
550	U400	-		S01	
551	U401	-		S01	
552	U402	-		S01	
553	U403	-		S01	
554	U404	-		S01	
555	U407	-		S01	
556	U409	-		S01	
557	U410	-		S01	
558	U411	-		S01	
669	U328	-		S01	
660	U353	-		S01	
661	U359	-		S01	
662	U364	-		S01	
663	U367	-		S01	
664	U372	-		S01	
665	U373	-		S01	
666	U375	-		S01	
667	U376	-		S01	
668	U377	-		S01	
779	U378	-		S01	
770	U379	-		S01	
771	U381	-		S01	
772	U382	-		S01	
773	U383	-		S01	
774	U384	-		S01	
775	U385	-		S01	
776	U386	-		S01	
777	U387	-		S01	
778	U389	-		S01	
889	U390	-		S01	
880	U391	-		S01	
881	U392	-		S01	
882	U393	-		S01	
883	U394	-		S01	
884	U395	-		S01	
885	U396	-		S01	
886	U400	-		S01	
887	U401	-		S01	
888	U402	-		S01	
999	U403	-		S01	
990	U404	-		S01	
991	U407	-		S01	
992	U409	-		S01	
993	U410	-		S01	
994	U411	-		S01	
995	U328	-		S01	
996	U353	-		S01	
997	U359	-		S01	
998	U364	-		S01	
10 9	U367	-		S01	
10 0	U372	-		S01	
10 1	U373	-		S01	
10 2	U375	-		S01	
10 3	U376	-		S01	
10 4	U377	-		S01	
10 5	U378	-		S01	
10 6	U379	-		S01	
10 7	U381	-		S01	
10 8	U382	-		S01	
119	U383	-		S01	
110	U384	-		S01	
111	U385	-		S01	
112	U386	-		S01	
113	U387	-		S01	
114	U389	-		S01	
115	U390	-		S01	
116	U391	-		S01	
117	U392	-		S01	
118	U393	-		S01	
229	U394	-		S01	
220	U395	-		S01	
221	U396	-		S01	
222	U400	-		S01	
223	U401	-		S01	
224	U402	-		S01	
225	U403	-		S01	
226	U404	-		S01	
227	U407	-		S01	
228	U409	-		S01	
339	U410	-		S01	
330	U411	-		S01	
331	U328	-		S01	
332	U353	-		S01	
333	U359	-		S01	
334	U364	-		S01	
335	U367	-		S01	
336	U372	-		S01	
337	U373	-		S01	
338	U375	-		S01	
449	U376	-		S01	
440	U377	-		S01	
441	U378	-		S01	
442	U379	-		S01	
443	U381	-		S01	
444	U382	-		S01	
445	U383	-		S01	
446	U384	-		S01	
447	U385	-		S01	
448	U386	-		S01	
559	U387	-		S01	
550	U389	-		S01	
551	U390	-		S01	
552	U391	-		S01	
553	U392	-		S01	
554	U393	-		S01	
555	U394	-		S01	
556	U395	-		S01	
557	U396	-		S01	
558	U400	-		S01	
669	U401	-		S01	
660	U402	-		S01	
661	U403	-		S01	
662	U404	-		S01	
663	U407	-		S01	
664	U409	-		S01	
665	U410	-		S01	
666	U411	-		S01	
667	U328	-		S01	
668	U353	-		S01	
779	U359	-		S01	
770	U364	-		S01	
771	U367	-		S01	
772	U372	-		S01	
773	U373	-		S01	
774	U375	-		S01	
775	U376

7. Descriptions of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				1) Process Codes	(2) Process Descriptions (if code is not entered in 7.D1)
465	U157	-		S01	
466	U158	-		S01	
467	U159	-		S01	
468	U160	-		S01	
479	U161	-		S01	
470	U162	-		S01	
471	U163	-		S01	
472	U164	-		S01	
473	U165	-		S01	
474	U166	-		S01	
475	U167	-		S01	
476	U168	-		S01	
477	U169	-		S01	
478	U170	-		S01	
489	U171	-		S01	
480	U172	-		S01	
481	U173	-		S01	
482	U174	-		S01	
483	U176	-		S01	
484	U177	-		S01	
485	U178	-		S01	
486	U179	-		S01	
487	U180	-		S01	
488	U181	-		S01	
499	U182	-		S01	
490	U183	-		S01	
491	U184	-		S01	
492	U185	-		S01	
493	U186	-		S01	
494	U187	-		S01	
495	U188	-		S01	
496	U189	-		S01	
497	U190	-		S01	
498	U191	-		S01	
509	U192	-		S01	
500	U193	-		S01	
501	U194	-		S01	
502	U196	-		S01	
503	U197	-		S01	
504	U200	-		S01	
505	U201	-		S01	
506	U202	-		S01	
507	U203	-		S01	
508	U204	-		S01	
519	U205	-		S01	
510	U206	-		S01	
511	U207	-		S01	
512	U208	-		S01	
513	U209	-		S01	
514	U210	-		S01	
515	U211	-		S01	
516	U213	-		S01	
517	U214	-		S01	
518	U215	-		S01	
529	U216	-		S01	
520	U217	-		S01	
521	U218	-		S01	
522	U219	-		S01	
523	U220	-		S01	
524	U221	-		S01	
525	U222	-		S01	
526	U223	-		S01	
527	U225	-		S01	
528	U226	-		S01	
539	U227	-		S01	
530	U228	-		S01	
531	U234	-		S01	
532	U235	-		S01	
533	U236	-		S01	
534	U237	-		S01	
535	U238	-		S01	
536	U239	-		S01	
537	U240	-		S01	
538	U243	-		S01	
549	U244	-		S01	
540	U246	-		S01	
541	U247	-		S01	
542	U248	-		S01	
543	U249	-		S01	
544	U271	-		S01	
545	U277	-		S01	
546	U278	-		S01	
547	U279	-		S01	
548	U280	-		S01	
559	U328	-		S01	
550	U353	-		S01	
551	U359	-		S01	
552	U364	-		S01	
553	U367	-		S01	
554	U372	-		S01	
555	U373	-		S01	
556	U375	-		S01	
557	U376	-		S01	
558	U377	-		S01	
569	U378	-		S01	
560	U379	-		S01	
561	U381	-		S01	
562	U382	-		S01	
563	U383	-		S01	
564	U384	-		S01	
565	U385	-		S01	
566	U386	-		S01	
567	U387	-		S01	
568	U389	-		S01	
579	U390	-		S01	
570	U392	-		S01	
571	U393	-		S01	
572	U394	-		S01	
573	U395	-		S01	
574	U396	-		S01	
575	U400	-		S01	
576	U401	-		S01	
577	U402	-		S01	
578	U403	-		S01	
589	U404	-		S01	
580	U407	-		S01	
581	U409	-		S01	
582	U410	-		S01	
583	U411	-		S01	
584	U328	-		S01	
585	U353	-		S01	
586	U359	-		S01	
587	U364	-		S01	
588	U367	-		S01	
599	U372	-		S01	
590	U373	-		S01	
591	U375	-		S01	
592	U376	-		S01	
593	U377	-		S01	
594	U378	-		S01	
595	U379	-		S01	
596	U381	-		S01	
597	U382	-		S01	
598	U383	-		S01	
609	U384	-		S01	
600	U385	-		S01	
601	U386	-		S01	
602	U387	-		S01	
603	U389	-		S01	
604	U390	-		S01	
605	U392	-		S01	
606	U393	-		S01	
607	U394	-		S01	
608	U395	-		S01	
619	U396	-		S01	
610	U400	-		S01	
611	U401	-		S01	
612	U402	-		S01	
613	U403	-		S01	
614	U404	-		S01	
615	U407	-		S01	
616	U409	-		S01	
617	U410	-		S01	
618	U411	-		S01	
629	U328	-		S01	
620	U353	-		S01	
621	U359	-		S01	
622	U364	-		S01	
623	U367	-		S01	
624	U372	-		S01	
625	U373	-		S01	
626	U375	-		S01	
627	U376	-		S01	
628	U377	-		S01	
639	U378	-		S01	
630	U379	-		S01	
631	U381	-		S01	
632	U382	-		S01	
633	U383	-		S01	
634	U384	-		S01	
635	U385	-		S01	
636	U386	-		S01	
637	U387	-		S01	
638	U389	-		S01	
649	U390	-		S01	
640	U392	-		S01	
641	U393	-		S01	
642	U394	-		S01	
643	U395	-		S01	
644	U396	-		S01	
645	U400	-		S01	
646	U401	-		S01	
647	U402	-		S01	
648	U403	-		S01	
659	U404	-		S01	
650	U407	-		S01	
651	U409	-		S01	
652	U410	-		S01	
653	U411	-		S01	
654	U328	-		S01	
655	U353	-		S01	
656	U359	-		S01	
657	U364	-		S01	
658	U367	-		S01	
669	U372	-		S01	
660	U373	-		S01	
661	U375	-		S01	
662	U376	-		S01	
663	U377	-		S01	
664	U378	-		S01	
665	U379	-		S01	
666	U381	-		S01	
667	U382	-		S01	
668	U383	-		S01	
679	U384	-		S01	
670	U385	-		S01	
671	U386	-		S01	
672	U387	-		S01	
673	U389	-		S01	
674	U390	-		S01	
675	U392	-		S01	
676	U393	-		S01	
677	U394	-		S01	
678	U395	-		S01	
689	U396	-		S01	
680	U400	-		S01	
681	U401	-		S01	
682	U402	-		S01	
683	U403	-		S01	
684	U404	-		S01	
685	U407	-		S01	
686	U409	-		S01	
687	U410	-		S01	
688	U411	-		S01	
699	U328	-		S01	
690	U353	-		S01	
691	U359	-		S01	
692	U364	-		S01	
693	U367	-		S01	
694	U372	-		S01	
695	U373	-		S01	
696	U375	-		S01	
697	U376	-		S01	
698	U377	-		S01	
709	U378	-		S01	
700	U379	-		S01	
701	U381	-		S01	
702	U382	-		S01	
703	U383	-		S01	
704	U384	-		S01	
705	U385	-		S01	
706	U386	-		S01	
707	U387	-		S01	
708	U389	-		S01	
719	U390	-		S01	
710	U392	-		S01	
711	U393	-		S01	
712	U394	-		S01	
713	U395	-		S01	
714	U396	-		S01	
715	U400	-		S01	
716	U401	-		S01	
717	U402	-		S01	
718	U403	-		S01	
729	U404	-		S01	
720	U407	-		S01	
721	U409	-		S01	
722	U410	-		S01	
723	U411	-		S01	
724	U328	-		S01	
725	U353	-		S01	
726	U359	-		S01	
727	U364	-		S01	
728	U367	-		S01	
739	U372	-		S01	
730	U373	-		S01	
731	U375	-		S01	
732	U376	-		S01	
733	U377	-		S01	
734	U378	-		S01	
735	U379	-		S01	
736	U381	-		S01	
737	U382	-		S01	
738	U383	-		S01	
749	U384	-		S01	
740	U385	-		S01	
741	U386	-		S01	
742	U387	-		S01	
743	U389	-		S01	
744	U390	-		S01	
745	U392	-		S01	
746	U393	-		S01	
747	U394	-		S01	
748	U395	-		S01	
759	U396	-		S01	
750	U400	-		S01	
751	U401	-		S01	
752	U402	-		S01	
753	U403	-		S01	
754	U404	-		S01	
755	U407	-		S01	
756	U409	-		S01	
757	U410	-		S01	
758	U411	-		S01	
769	U328	-		S01	
760	U353	-		S01	
761	U359	-		S01	
762	U364	-		S01	
763	U367	-		S01	
764	U372	-		S01	
765	U373	-		S01	
766	U375	-		S01	
767	U376	-		S01	
768	U377	-		S01	
779	U378	-		S01	
770	U379	-		S01	
771	U381	-		S01	
772	U382	-		S01	
773	U383	-		S01	
774	U384	-		S01	
775	U385	-		S01	
776	U386	-		S01	
777	U387	-		S01	
778	U389	-		S01	
789	U390	-		S01	
780	U392	-		S01	
781	U393	-		S01	
782	U394	-		S01	
783	U395	-		S01	
784	U396	-		S01	
785	U400	-		S01	
786	U401	-		S01	
787	U402	-		S01	
788	U403	-		S01	
799	U404	-		S01	
790	U407	-		S01	
791	U409	-		S01	
792	U410	-		S01	
793	U411	-		S01	
794	U328	-		S01	
795	U353	-		S01	
796	U359	-		S01	
797	U364	-		S01	
798	U367	-		S01	
799	U372	-		S01	
800	U373	-		S01	
801	U375	-		S01	
802	U376	-		S01	
803	U377	-		S01	
804	U378	-		S01	
805	U379	-		S01	
806	U381	-		S01	
807	U382	-		S01	
808	U383	-		S01	
809	U384	-		S01	
810	U385	-		S01	
811	U386	-		S01	
812	U387	-		S01	
813	U389	-		S01	
814	U390	-		S01	
815	U392	-		S01	
816	U393	-		S01	
817	U394	-		S01	
818	U395	-		S01	
819	U396	-		S01	
820	U400	-		S01	
821	U401	-		S01	
822	U402	-		S01	
823	U403	-		S01	
824	U404	-		S01	
825	U407	-		S01	
826	U409	-		S01	
827	U410	-		S01	
828	U411	-		S01	
829	U328	-		S01	
830	U353	-		S01	
831	U359	-		S01	
832	U364	-		S01	
833	U367	-		S01	
834	U372	-		S01	
835	U373	-		S01	
836	U375	-		S01	
837	U376	-		S01	
838	U377	-		S01	
839	U378	-		S01	
840	U379	-		S01	
841	U381	-		S01	
842	U382	-		S01	
843	U383	-		S01	
844	U384	-		S01	
845	U385	-		S01	
846	U386	-		S01	
847	U387	-		S01	
848	U389	-		S01	
849	U390	-		S01	
850	U392	-		S01	
851	U393	-		S01	
852	U394	-		S01	
853	U395	-		S01	
854	U396	-		S01	
855	U400	-		S01	
856	U401	-		S01	
857	U402	-		S01	
858	U403	-		S01	
859	U404	-		S01	
860	U407	-		S01	
861	U409	-		S01	
862	U410	-		S01	
863	U411	-		S01	
864	U328	-		S01	
865	U353	-		S01	
866	U359	-		S01	
867	U364	-		S01	
868	U367	-		S01	
869	U372	-		S01	
870	U373	-		S01	
871	U375	-		S01	
872	U376	-		S01	
873	U377	-		S01	
874	U378	-		S01	
875	U379	-		S01	
876	U381	-		S01	
877	U382	-		S01	
878	U383	-		S01	
879	U384	-		S01	
880	U385	-		S01	
881	U386	-		S01	
882	U387	-		S01	
883	U389	-		S01	
884	U390	-		S01	
885	U392	-		S01	
886	U393	-		S01	
887	U394	-		S01	
888	U395	-		S01	
889	U396	-		S01	
890	U400	-		S01	
891	U401	-		S01	
892	U402	-		S01	
893	U403	-		S01	
894	U404	-		S01	
895	U407	-		S01	
896	U409	-		S01	
897	U410	-		S01	
898	U411	-		S01	
899	U328	-		S01	
900	U353	-		S01	
901	U359	-		S01	
902	U364	-		S01	
903	U367	-		S01	
904	U372	-		S01	
905	U373	-		S01	
906	U375	-		S01	
907	U376	-		S01	
908	U377	-		S01	
909	U378	-		S01	
910	U379	-		S01	
911	U381	-		S01	
912	U382	-		S01	
913	U383	-		S01	
914	U384	-		S01	
915	U385	-		S01	
916	U386	-		S01	
917	U387	-		S01	
918	U389	-		S01	
919	U390	-		S01	
920	U392	-		S01	
921	U393	-		S01	
922	U394	-		S01	
923	U395	-		S01	
924	U396	-		S01	
925	U400	-		S01	
926	U401	-		S01	
927	U402	-		S01	
928	U403	-		S01	
929	U404	-		S01	
930	U407	-		S01	
931	U409	-		S01	
932	U410	-		S01	
933	U411	-		S01	
934	U328	-		S01	
935	U353	-		S01	
936	U359	-		S01	
937	U364	-		S01	
938	U367	-		S01	
939	U372	-		S01	
940	U373	-		S01	
941	U375	-		S01	
942	U376	-		S01	
943	U377	-		S01	
944	U378	-		S01	
945	U379	-		S01	
946	U381	-		S01	
947	U382	-		S01	
948	U383	-		S01	
949	U384	-		S01	
950	U385	-		S01	
951	U386	-		S01	
952	U387	-		S01	
953	U389	-		S01	
954	U390	-		S01	
955	U392	-		S01	
956	U393	-		S01	
957	U394	-		S01	
958	U395	-		S01	
959	U396	-		S01	
960	U400	-		S01	
961	U401	-		S01	
962	U402	-		S01	
963	U403	-		S01	
964	U404	-		S01	
965	U407	-		S01	
966	U409	-		S01	
967	U410	-		S01	
968	U411	-		S01	
969	U328	-		S01	
970	U353	-		S01	
971	U359	-		S01	
972	U364	-		S01	
973	U367	-		S01	
974	U372	-		S01	
975	U373	-		S01	
976	U375	-		S01	
977	U376	-		S01	
978	U377	-		S01	
979	U378	-		S01	
980	U379	-		S01	
981	U381	-		S01	
982	U382	-		S01	
983	U383	-		S01	
984	U384	-		S01	
985	U385	-		S01	
986	U386	-		S01	
987	U387	-		S01	
988	U389	-		S01	
989	U390	-		S01	
990	U392	-		S01	
991	U393	-		S01	
992	U394	-		S01	
993	U395	-		S01	
994	U396	-		S01	
995	U400	-		S01	
996	U401	-		S01	
997	U402	-		S01	
998	U403	-		S01	
999	U404	-		S01	
1000	U407	-		S01	
1001	U409	-		S01	
1002	U410	-		S01	
1003	U411	-		S01	
1004	U328	-		S01	
1005	U353	-		S01	
1006	U359	-		S01	
1007	U364	-		S01	
1008	U367	-		S01	
1009	U372	-		S01	
1010	U373	-		S01	
1011	U375	-		S01	
1012	U376	-		S01	
1013	U377	-		S01	
1014	U378	-		S01	
1015	U379	-		S01	
1016	U381	-		S01	
1017	U382	-		S01	
1018	U383	-		S01	
1019	U384	-		S01	
1020	U385	-		S01	
1021	U386	-		S01	
1022	U387	-		S01	
1023	U389	-		S01	
1024	U390	-		S01	
1025	U392	-		S01	
1026	U393	-		S01	
1027	U394	-		S01	
1028	U395	-		S01	
1029	U396	-		S01	
1030	U400	-		S01	
1031	U401	-		S01	
1032	U402	-		S01	
1033	U403	-		S01	
1034	U404	-		S01	
1035	U407	-		S01	
1036	U409	-		S01	
1037	U410	-		S01	
1038	U411	-		S01	
1039	U328	-		S01	
1040	U353	-		S01	
1041	U359	-		S01	
1042	U364	-		S01	
1043	U367	-		S01	
1044	U372	-		S01	
1045	U373	-		S01	
1046	U375	-		S01	
1047	U376	-		S01	
1048	U377	-		S01	
1049	U378	-		S01	
1050	U379	-		S01	
1051	U381	-		S01	
1052	U382	-		S01	
1053	U383	-		S01	
1054	U384	-		S01	
1055	U385	-		S01	
1056	U386	-		S01	
1057	U387	-		S01	
1058	U389	-		S01	
1059	U390	-		S01	
1060	U392	-		S01	
1061	U393	-		S01	
1062	U394	-		S01	
1063	U395	-		S01	
1064	U396	-		S01	
1065	U400	-		S01	
1066	U401	-		S01	
1067	U402	-		S01	
1068	U403	-		S01	
1069	U404	-		S01	
1070	U407	-		S01	
1071	U409	-		S01	
1072	U410	-		S01	
1073	U411	-		S01	
1074	U328	-		S01	
1075	U353	-		S01	
1076	U359	-		S01	
1077	U364	-		S01	
1078	U367	-		S01	
1079	U372	-		S01	
1080	U373	-		S01	
1081	U375	-		S01	
1082	U376	-		S01	
1083	U377	-		S01	
1084	U378	-		S01	
1085	U379	-		S01	
1086	U381	-		S01	
1087	U382	-		S01	
1088	U383	-		S01	
1089	U384	-		S01	
1090	U385	-		S01	
1091	U386	-		S01	
1092	U387	-		S01	
1093	U389	-		S01	
1094	U390	-		S01	
1095	U392	-		S01	
1096	U393	-		S01	
1097	U394	-		S01	
1098	U395	-		S01	
1099	U396	-		S01	
1100	U400	-		S01	
1101	U401	-		S01	
1102	U402	-		S01	
1103	U403	-		S01	
1104	U404	-		S01	
1105	U407	-		S01	
1106	U409	-		S01	
1107	U410	-		S01	
1108	U411	-		S01	
1109	U328	-		S01	
1110	U353	-		S01	
1111	U359	-		S01	
1112	U364	-		S01	
1113	U367	-		S01	
1114	U372	-		S01	
1115	U373	-		S01	
1116	U375	-		S01	
1117	U376	-		S01	
1118	U377	-		S01	
1119	U378	-		S01	
1120	U379	-		S01	
1121	U381	-		S01	
1122	U382	-		S01	
1123	U383	-		S01	
1124	U384	-		S01	
1125	U385	-		S01	
1126	U386	-		S01	
1127	U387	-		S01	
1128	U389	-		S01	
1129	U390	-		S01	
1130	U392	-		S01	
1131	U393	-		S01	
1132	U394	-		S01	
1133	U395	-		S01	
1134	U396	-		S01	
1135	U400	-		S01	
1136	U401	-		S01	
1137	U402	-		S01	
1138	U403	-		S01	
1139	U404	-		S01	
1140	U407	-		S01	
1141	U409	-		S01	
1142	U410	-		S01	
1143	U411	-		S01	
1144	U328	-		S01	
1145	U353	-		S01	
1146	U359	-		S01	
1147	U364	-		S01	
1148	U367	-		S01	
1149	U372	-		S01	
1150	U373	-		S01	
1151	U375	-		S01	
1152	U376	-		S01	
1153	U377	-		S01	
1154	U378	-		S01	
1155	U379	-		S01	
1156	U381	-		S01	
1157	U382	-		S01	
1158	U383	-		S01	
1159	U384	-		S01	
1160	U385	-		S01	
1161	U386	-		S01	
1162	U387	-		S01	
1163	U389	-		S01	
1164	U390	-		S01	
1165	U392	-		S01	
1166	U393	-		S01	
1167	U394	-		S01	
1168	U395	-		S01	
1169	U396	-		S01	
1170	U400	-		S01	
1171	U401	-		S01	
1172	U402	-		S01	
1173	U403	-		S01	
1174	U404	-		S01	
1175	U407	-		S01	
1176	U409	-		S01	
1177	U410	-		S01	
1178	U411	-		S01	
1179	U328	-		S01	
1180	U353	-		S01	
1181	U359	-		S01	
1182	U364	-		S01	
1183	U367	-		S01	
1184	U372	-		S01	
1185	U373	-		S01	
1186	U375	-		S01	
1187	U376	-		S01	
1188	U377	-		S01	
1189	U378	-		S01	
1190	U379	-		S01	
1191	U381	-		S01	
1192	U382	-		S01	
1193	U383	-		S01	
1194	U384	-		S01	
1195	U385	-		S01	
1196	U386	-		S01	
1197	U387	-		S01	
1198	U389	-		S01	
1199	U390	-		S01	
1200	U392	-		S01	
1201	U393	-		S01	
1202	U394	-		S01	
1203	U395	-		S01	
1204	U396	-		S01	
1205	U400	-		S01	
1206	U401	-		S01	
1207	U402	-		S01	
1208	U403	-		S01	
1209	U404	-		S01	
1210	U407	-		S01	
1211	U409	-		S01	
1212	U410	-		S01	
1213	U411	-		S01	
1214	U328	-		S01	
1215	U353	-		S01	
1216	U359	-		S01	
1217	U364	-		S01	
1218	U367	-		S01	
1219	U372	-		S01	
1220	U373	-		S01	
1221	U375	-		S01	
1222	U376	-		S01	
1223	U377	-		S01	
1224	U378	-		S01	
1225	U379	-		S01	
1226	U381	-		S01	
1227	U382	-		S01	
1228	U383	-		S01	
1229	U384	-		S01	
1230	U385	-		S01	
1231	U386	-		S01	
1232	U387	-		S01	
1233	U389	-		S01	
1234	U390	-		S01	
1235	U392	-		S01	
1236	U393	-		S01	
1237	U394	-		S01	
1238	U395	-		S01	
1239	U396	-		S01	
1240	U400	-		S01	
1241	U401	-		S01	
1242	U402	-		S01	
1243	U403	-		S01	
1244	U404	-		S01	
1245	U407	-		S01	
1246	U409	-		S01	
1247	U410	-		S01	
1248	U411	-		S01	
1249	U328	-		S01	
1250	U353	-		S01	
1251	U359	-		S01	
1252	U364	-		S01	
1253	U367	-		S01	
1254	U372	-		S01	
1255	U373	-		S01	
1256	U375	-		S01	
1257	U376	-		S01	
1258	U377	-		S01	
1259	U378	-		S01	
1260	U379	-		S01	
1261	U381	-		S01	
1262	U382	-		S01	
1263	U383	-		S01	
1264	U384	-		S01	
1265	U385	-		S01	
1266	U386	-		S01	
1267	U387	-		S01	
1268	U389	-		S01	
1269	U390	-		S01	
1270	U392	-		S01	
1271	U393	-		S01	
1272	U394	-		S01	
1273	U395	-		S01	
1274	U396	-		S01	
1275	U400	-		S01	
1276	U401	-		S01	
1277	U402	-		S01	
1278	U403	-		S01	
1279	U404	-		S01	
1280	U407	-		S01	
1281	U409	-		S01	
1282	U410	-		S01	
1283	U411	-		S01	
1284	U328	-		S01	
1285	U353	-		S01	
1286	U359	-		S01	
1287	U364	-		S01	
1288	U367	-		S01	
1289	U372	-		S01	
1290	U373	-		S01	
1291	U375	-		S01	
1292	U376	-		S01	
1293	U377	-		S01	
1294	U378	-		S01	
1295	U379	-		S01	
1296	U381	-		S01	
1297	U382	-		S01	
1298	U383	-		S01	
1299	U384	-		S01	
1300	U385	-		S01	
1301	U386	-		S01	
1302	U387	-		S01	
1303	U389	-		S01	
1304	U390	-		S01	
1305	U392	-		S01	
1306	U393	-		S01	
1307	U394	-		S01	
1308	U395	-		S01	
1309	U396	-		S01	
1310	U400	-		S01	
1311	U401	-		S01	
1312	U402	-		S01	
1313	U403	-		S01	
1314	U404	-		S01	
1315	U407	-		S01	
1316	U409	-		S01	
1317	U410	-		S01	
1318	U411	-		S01	
1319	U328	-		S01	
1320	U353	-		S01	
1321	U359	-		S01	
1322	U364	-		S01	
1323	U367	-		S01	
1324

7. Descriptions of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.	A. EPA Hazardous Waste No.	B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes	
				1) Process Codes	(2) Process Descriptions (if code is not entered in 7.D1)
523	U220	-		S01	
524	U221	-		S01	
525	U222	-		S01	
526	U223	-		S01	
527	U225	-		S01	
528	U226	-		S01	
539	U227	-		S01	
530	U228	-		S01	
531	U234	-		S01	
532	U235	-		S01	
533	U236	-		S01	
534	U237	-		S01	
535	U238	-		S01	
536	U239	-		S01	
537	U240	-		S01	
538	U243	-		S01	
549	U244	-		S01	
540	U246	-		S01	
541	U247	-		S01	
542	U248	-		S01	
543	U249	-		S01	
544	U271	-		S01	
545	U278	-		S01	
546	U279	-		S01	
547	U280	-		S01	
548	U328	-		S01	
559	U353	-		S01	
550	U359	-		S01	
551	U364	-		S01	
552	U367	-		S01	
553	U372	-		S01	
554	U373	-		S01	
555	U375	-		S01	
556	U376	-		S01	
557	U377	-		S01	
558	U378	-		S01	
569	U379	-		S01	
560	U381	-		S01	
561	U382	-		S01	
562	U383	-		S01	
563	U384	-		S01	
564	U385	-		S01	
565	U386	-		S01	
566	U387	-		S01	
567	U389	-		S01	
568	U390	-		S01	

N - Short tons per day

APPENDIX C
NDOT 2023 ANNUAL TRAFFIC REPORT FOR LYON COUNTY

HUMBOLDT

ELKO

WASHOE

PERSHING

LANDER

EUREKA

CHURCHILL

STOREY

WHITE PINE

CARSON CITY

LYON

DOUGLAS

MINERAL

NYE

ESMERALDA

LINCOLN

CLARK

NEVADA

MILES

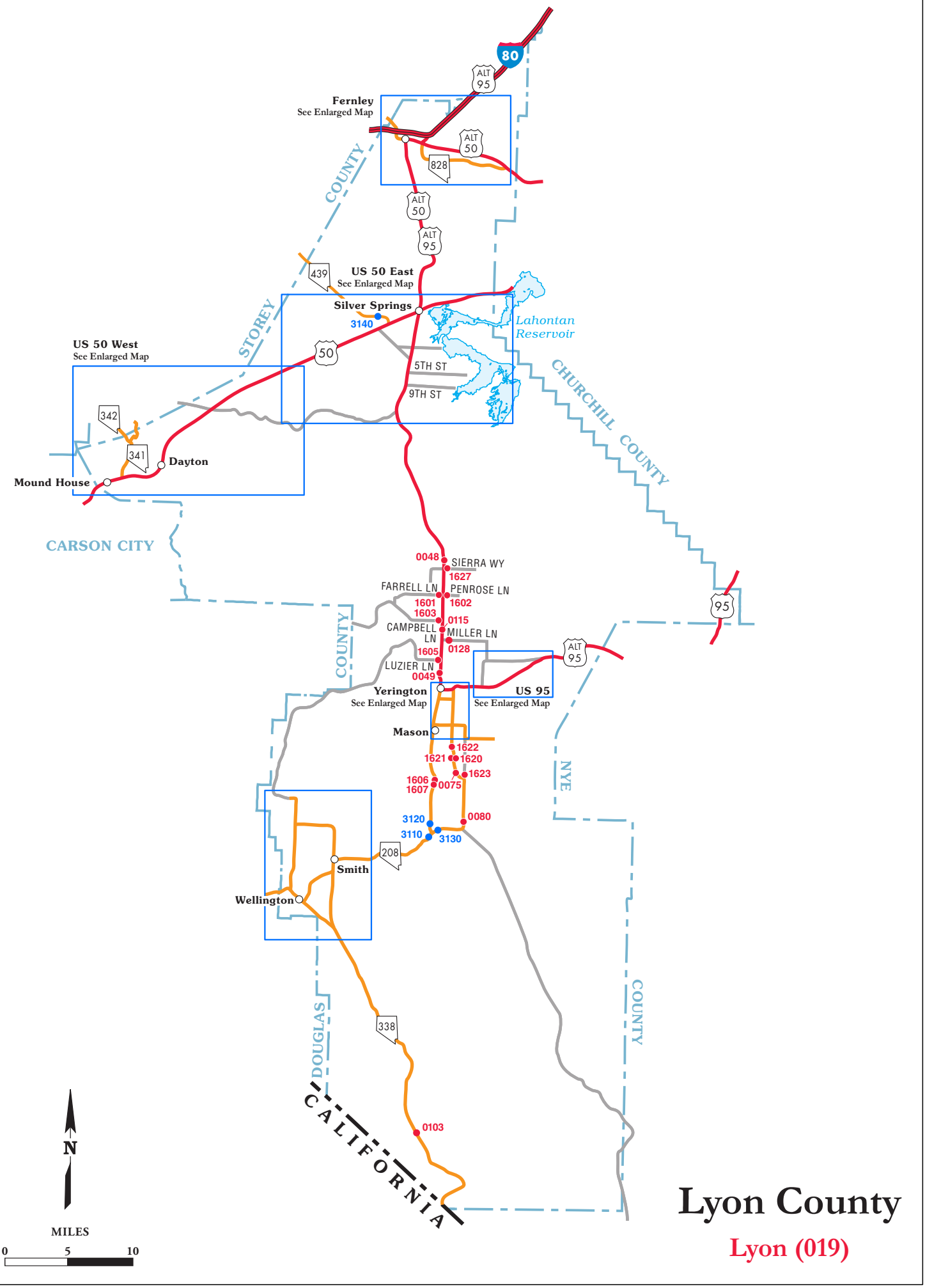
0 50

0 80

KILOMETERS

NEVADA DOT

NEVADA DEPARTMENT OF TRANSPORTATION
LOCATION DIVISION
CARTOGRAPHY
(775) 888-7627



Lyon County

Lyon (019)

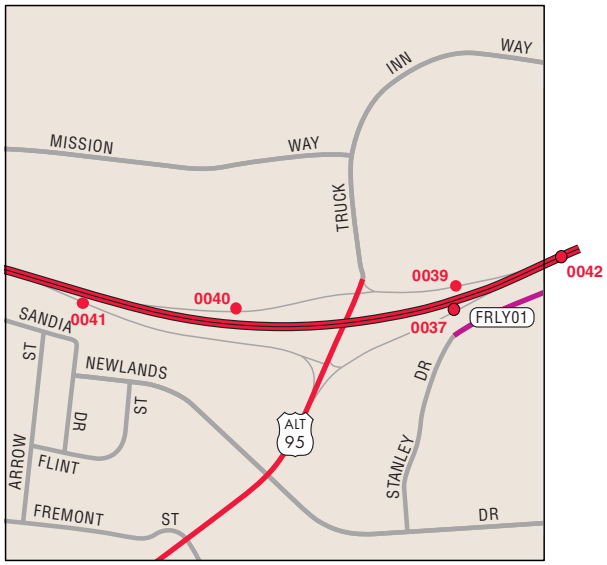
Interstate 80 Interchanges

Lyon (019)

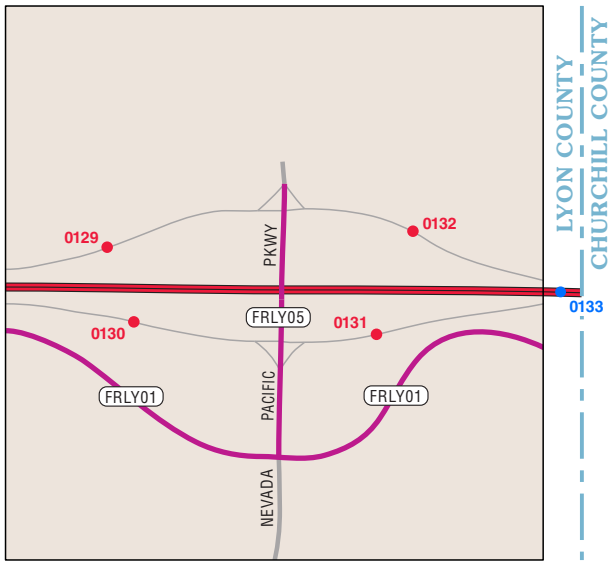
Wadsworth-Fernley 46

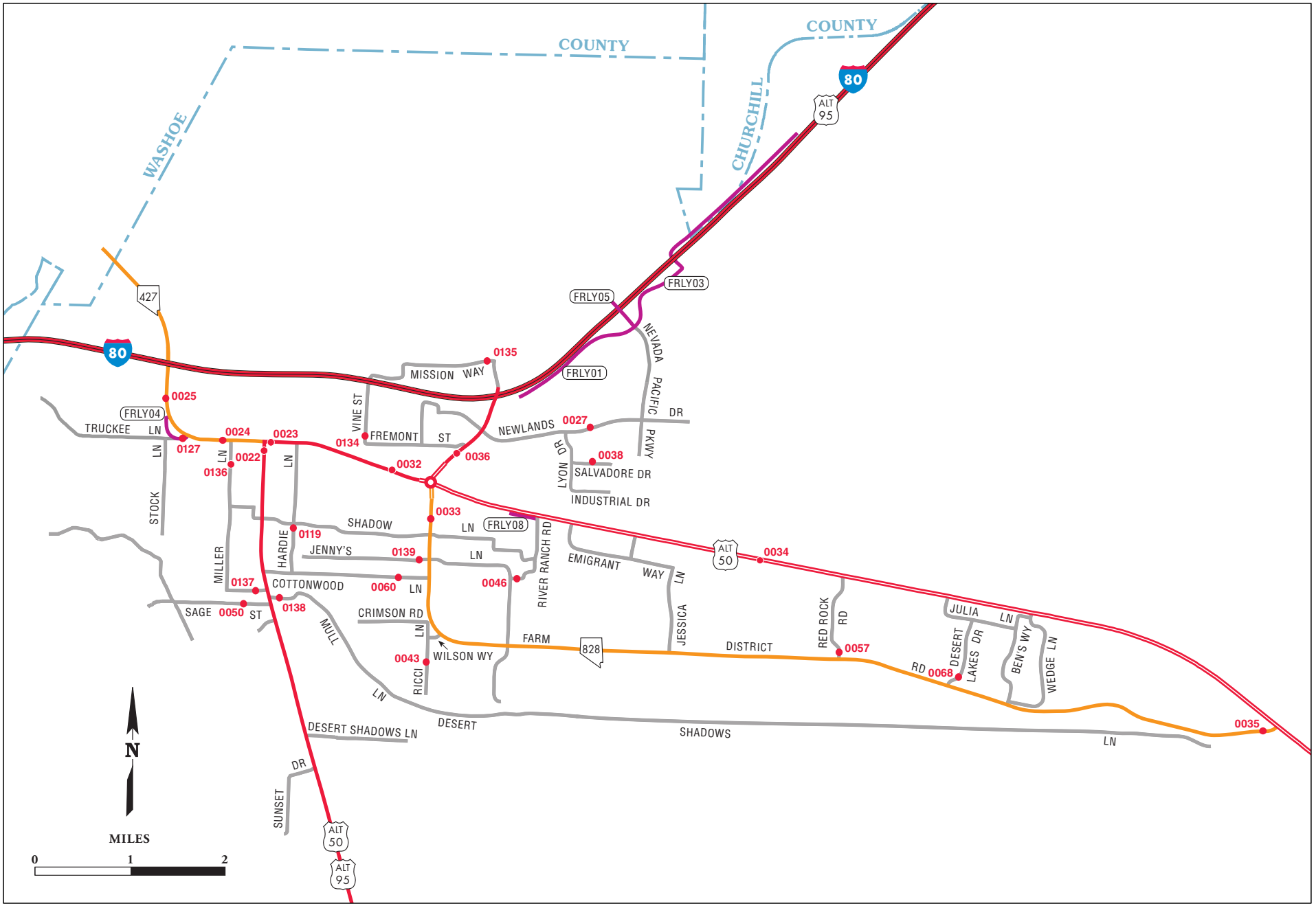


East Fernley 48



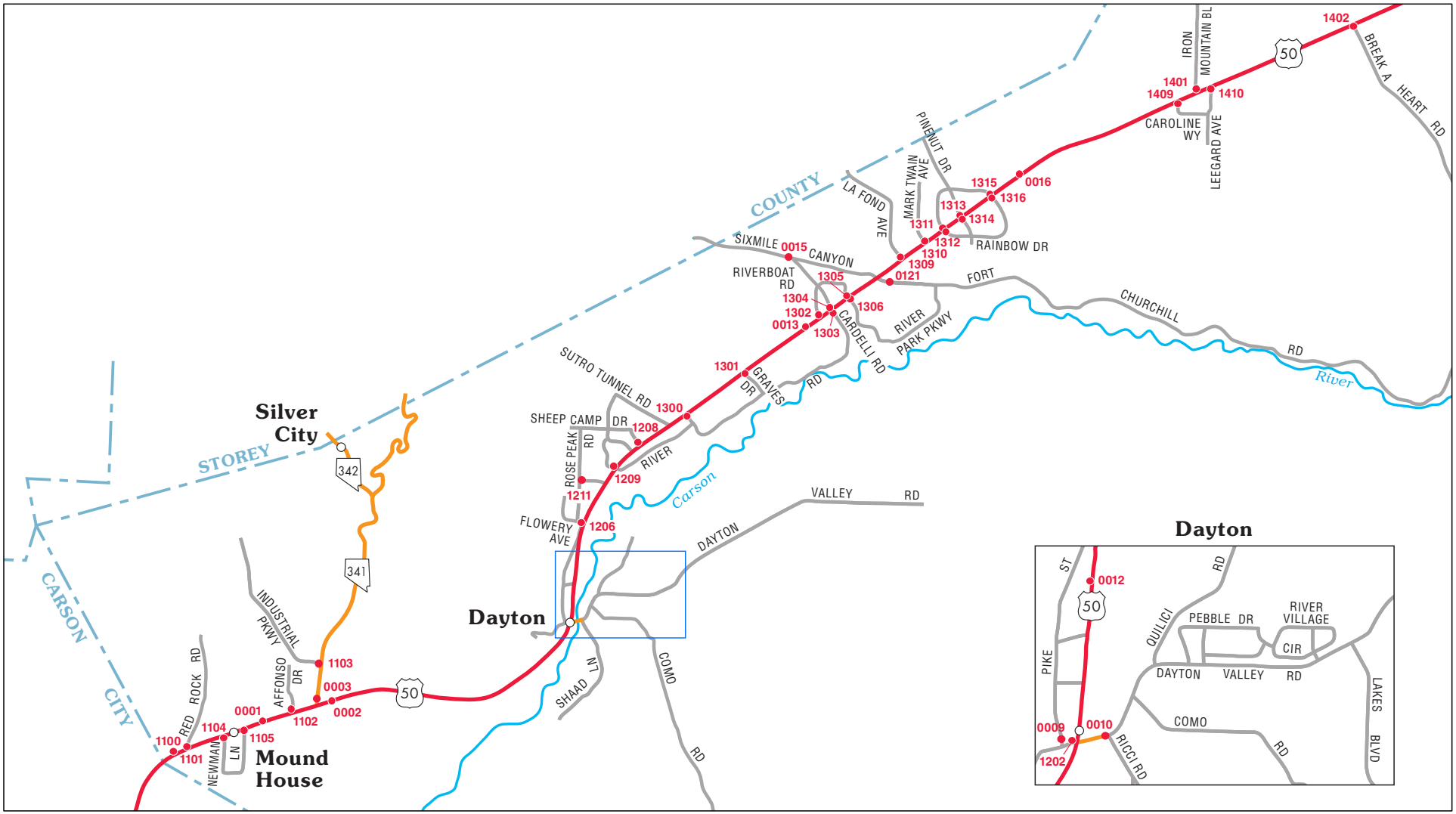
Nevada Pacific Pkwy 50

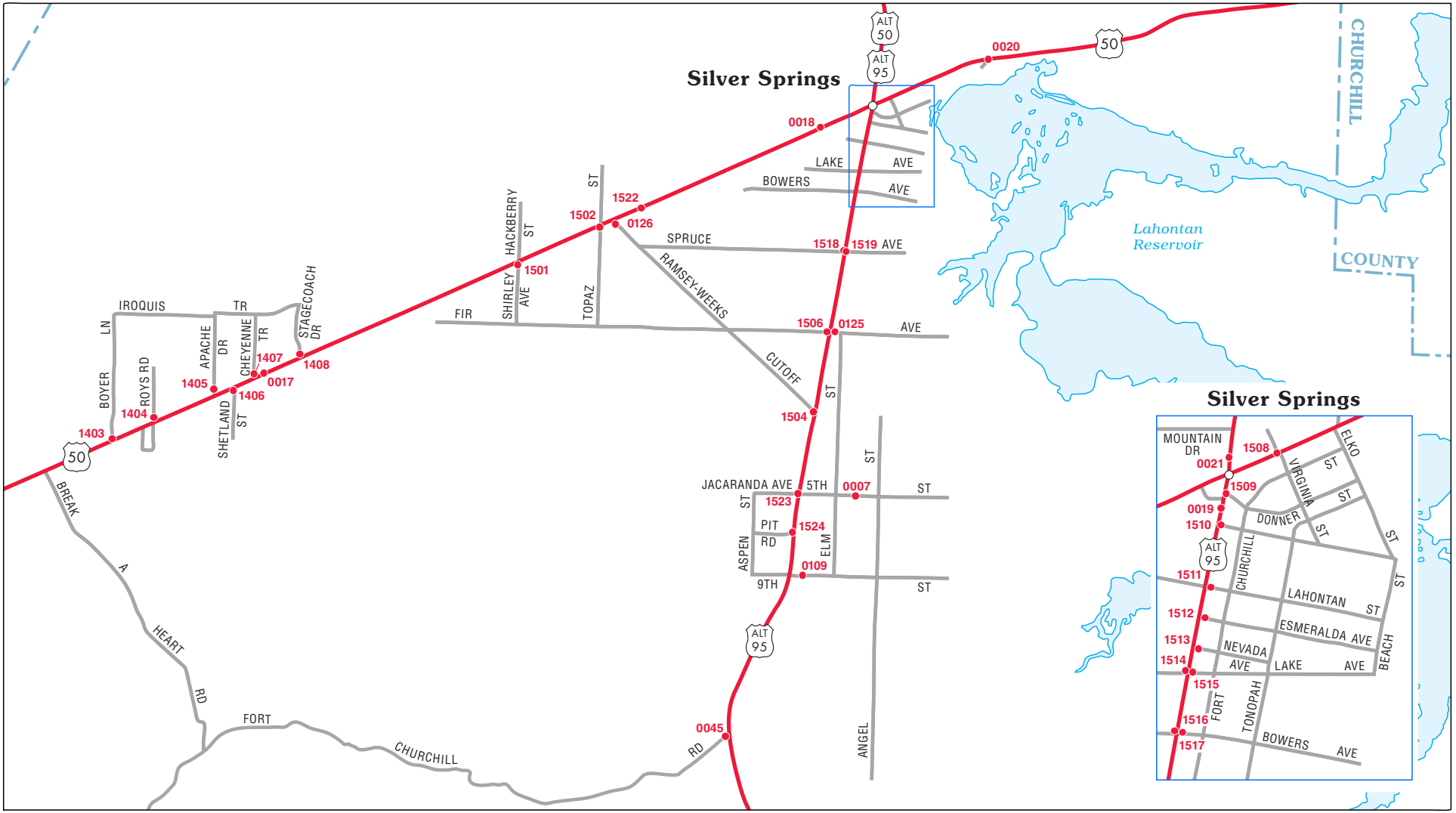




Fernley

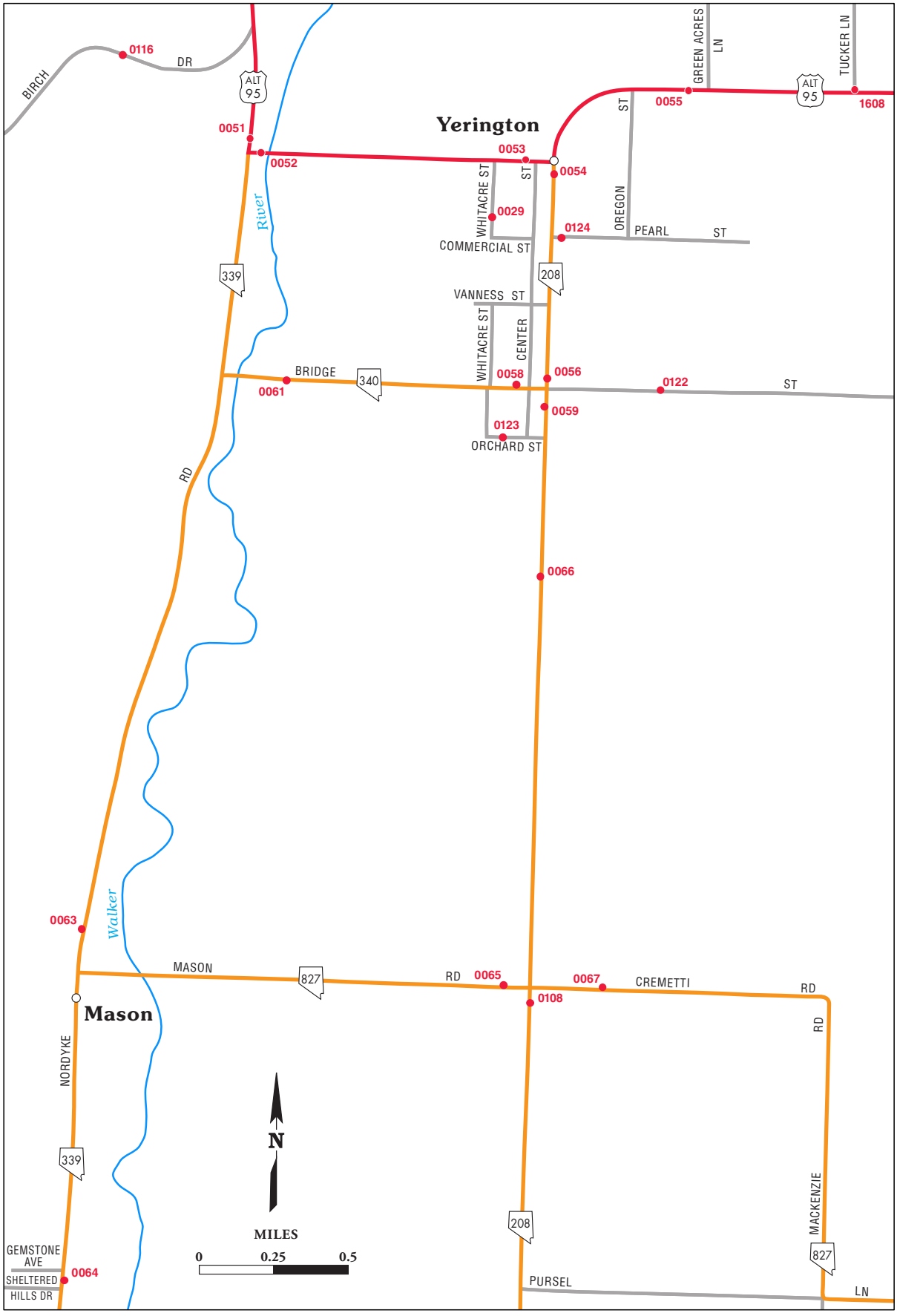
Lyon (019)


Silver City
Dayton
Mound House
Dayton
STOREY COUNTY
CARSON CITY
Carson River
342
341
50
0001
0002
0003
0010
0012
0013
0015
0016
0121
1100
1101
1102
1103
1104
1105
1202
1206
1208
1209
1211
1300
1301
1302
1303
1304
1305
1306
1309
1310
1311
1312
1313
1314
1315
1316
1401
1402
1409
1410
ROCK RD
RED
NEWMAN LN
INDUSTRIAL PKWY
AFFONSO DR
SHAAD LN
COMO RD
SUTRO TUNNEL RD
SHEEP CAMP DR
ROSE PEAK RD
FLOWERY AVE
VALLEY RD
GRAVES DR
CARDELLI RD
RIVER PARK PKWY
SIXMILE CANYON
RIVERBOAT RD
LA FOND AVE
MARK TWAIN AVE
PINENUT DR
RAINBOW DR
FORT CHURCHILL RD
IRON MOUNTAIN BL
CAROLINE WY
LEEGARD AVE
BREAK A HEART RD
ST
PIKE
QUILICI RD
PEBBLE DR
RIVER VILLAGE CIR
DAYTON VALLEY RD
COMO RD
LAKES BLVD
RICCI RD
N
MILES
0 1 2
US 50 (West)
Lyon (019)



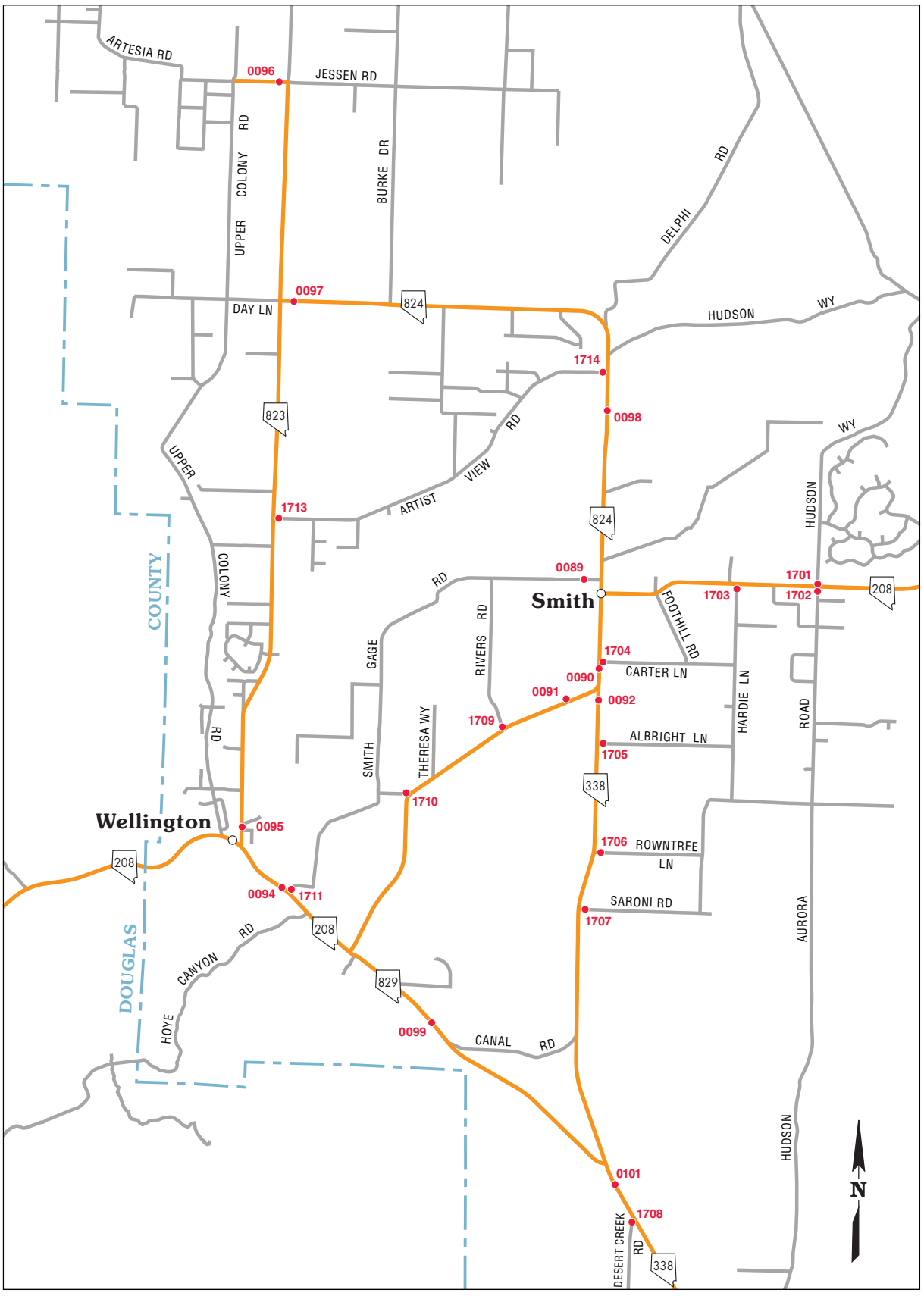
US 50 (East)

Lyon (019)



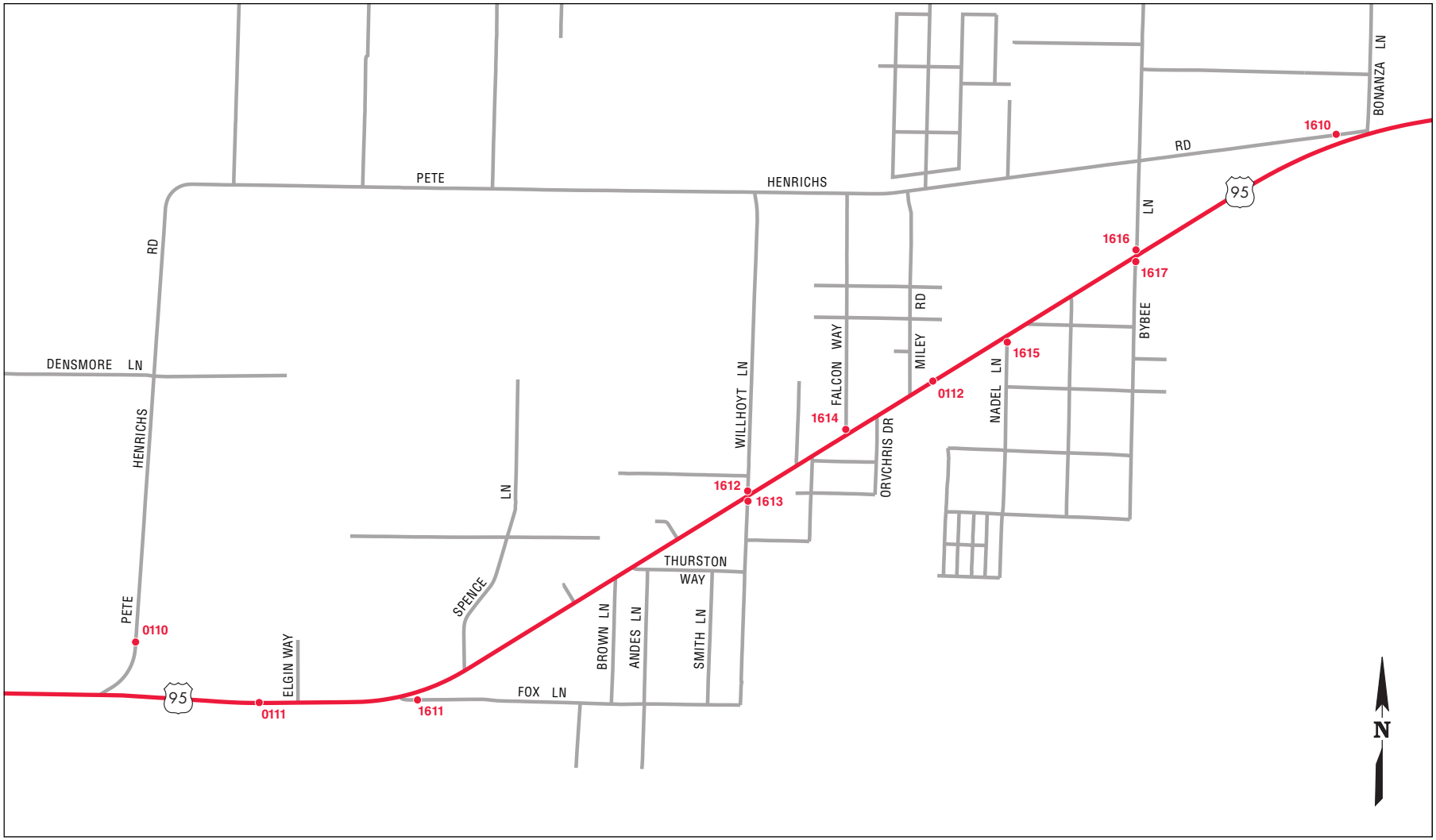
Yerington Area

Lyon (019)



Smith/Wellington Area

Lyon (019)



US 95

Lyon (019)

State of Nevada Department of Transportation

Annual Average Daily Traffic Count Stations

County Name: Lyon

		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Station	Route/Location	AADT	AADT	AADT	AADT	AADT	AADT	AADT	AADT	AADT	AADT
0190001	US50, 590ft E of Hillside Dr	22500	23500	25000	25000	25100	25000	24000	26200	26200	25000
0190002	US50, 930ft E of SR341	18500	20000	21000	22000	23400	22000	21100	23000	23300	22200
0190003	SR341, 400ft N of US50	2700	2900	3000	2700	2750	2750	2450	2650	2650	2700
0190007	5th St, .2 mi E of Elm St	600	550	680	620	720	680	730	800	840	760
0190009	Pike St, 150ft N of Main St	400	400	460	430	450	470	420	480	470	530
0190010	Dayton Valley Rd, 625ft E of US50 in Dayton	8700	8800	11000	11000	12500	11200	10200	11200	11100	9100
0190012	US50, .2 mi E of Pike St	18000	19500	21000	21000	22800	22000	19900	21400	22300	23600
0190015	Six Mile Canyon Rd, 220ft W of Riverboat Rd	2100	2300	2400	2400	2750	2800	2300	2600	2450	2700
0190016	US50, 520ft E of Chaves Rd	6300	7200	7400	7700	8550	8400	7400	7800	8250	8300
0190017	US50, 520ft E of Cheyenne Dr (in Stagecoach)	5100	5700	6000	6100	6250	6400	6650	6800	7200	7700
0190018	US50, .7 mi W of US95A in Silver Springs	3800	3900	4400	4600	5150	5250	4950	5500	5400	5900
0190019	US95A, 300ft N of Lahontan St	4900	5200	5300	5900	5850	5950	5100	5150	5700	5700
0190020	US50, .2 mi E of Orange Ln	1900	2100	2100	2100	2650	2700	2300	2500	2500	2600
0190021	US95A, 530ft N of US50	4800	4900	5400	5500	4300	4400	3900	4150	4350	4550
0190022	US95A, 40ft S of Mortensen Ln	7200	7500	8300	8400	7600	7750	7150	7450	8000	8650
0190023	US95A, Main St, 200ft E of East St	8900	9800	10000	10500	11600	11900	8600	10600	10900	10900
0190024	SR427, Main St, 155ft W of Dallas Ln	9200	9800	11000	11000	10400	10600	8800	10400	10500	11500
0190025	SR427, Main St, 400ft S of Pilot Rd	8200	8600	9000	11000	9100	9300	8200	9800	9650	9700
0190026	IR80, E/B on-ramp of the Wadsworth/W Fernley Intch 'Exit 46'	2100	2100	2200	2200	2300	3450	3350	2350	2400	2400
0190027	E Newlands Dr, 940ft E of Lyon Dr at the RxR crossing	1100	1200	1200	1200	1550	1100	1100	1200	1200	1100

Color indicates that this AADT value is estimated

		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Station	Route/Location	AADT	AADT	AADT	AADT	AADT	AADT	AADT	AADT	AADT	AADT
0190028	IR80, W/B off-ramp of the Wadsworth/W Fernley Intch 'Exit 46'	1900	1800	1800	2000	2150	2350	2250	2250	2300	2350
0190029	Whitacre St, 70ft N of Commercial Ave	100	150	80	80	60	60	100	110	80	70
0190030	IR80, W/B on-ramp of the Wadsworth/W Fernley Intch 'Exit 46'	3600	3800	4300	4500	3800	3800	3400	3750	3400	3400
0190031	IR80, E/B off-ramp of the Wadsworth/W Fernley Intch 'Exit 46'	4200	4300	4900	4400	4450	4400	3850	4450	4400	4500
0190032	US95A, 80ft W of 7th St	10500	10500	11000	11000	11000	11300	10800	11500	13200	12300
0190033	SR828, Fernley Farm District Rd, 745ft S of US50A	9100	7800	7700	8300	10300	9900	9200	9900	8900	10300
0190034	US50A, .65 mi E of Jessica Ln	10500	11000	12000	12000	12700	13000	12500	12600	12400	12400
0190035	SR828, Fernley Farm District Rd, 560ft W of US50A	450	500	500	540	560	600	590	680	710	720
0190036	US95A, 360ft S of Chisholm Trail	25500	28000	29000	28000	32500	31000	29900	29500	29100	25800
0190037	IR80, E/B on-ramp of the E Fernley Intch 'Exit 48'	500	950	1000	1000	970	1200	870	1050	1100	1100
0190038	Salvador Dr, 750ft E of Lyon Dr at the RxR crossing	100	100	130	130	190	200	340	400	400	380
0190039	IR80, W/B off-ramp of the E Fernley Intch 'Exit 48'	1200	1300	1400	1200	1250	1550	1200	1500	1600	1600
0190040	IR80, W/B on-ramp of the E Fernley Intch 'Exit 48'	6500	6400	6600	8000	6300	7000	7150	7900	6550	6600
0190041	IR80, E/B off-ramp of the E Fernley Intch 'Exit 48'	5800	6000	6600	7000	6900	6000	3900	4300	5600	5650
0190042	IR80, .6 mi E of the E Fernley Intch (W of the Nevada Pacific Pkwy Intch)	7700	7900	8200	8300	8700	10900	10500	9600	9250	9100
0190043	Ricci Ln, 185ft S of Wilson Ave	850	850	830	860	560	1350	1200	1300	1400	1500
0190045	Fort Churchill Rd, 245ft W of US95A	200	200	160	160	210	160	220	200	190	230

Color indicates that this AADT value is estimated

		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Station	Route/Location	AADT	AADT	AADT	AADT	AADT	AADT	AADT	AADT	AADT	AADT
0190046	Reese River Rd, 170ft E of Jenny's Ln	550	450	490	420	470	500	460	550	670	750
0190048	US95A, .45 N of Sierra Way	2600	2600	2700	2900	2600	4150	4000	4300	4500	4150
0190049	US95A, .7 mi S of Luzier Ln	4200	4300	5100	5100	5250	5500	5450	6300	5850	6900
0190050	Sage St, 300ft W of US50A	700	750	740	820	940	1050	930	1100	1050	1000
0190051	US95A, 330ft N of SR339	5100	5200	6500	6700	6900	7300	6350	8150	7100	8700
0190052	US95A, 785ft E of SR339	4500	4600	4800	5900	6050	5700	5450	5800	6100	7500
0190053	US95A, 130ft W of Center St	5700	5800	6400	6800	7000	7150	6150	6700	6650	8000
0190054	SR208, Main St, 200ft S of US95A	5100	5400	5500	5700	5800	5900	4850	5400	4200	4900
0190055	US95A, 200ft W of Green Acres Ln	3300	3400	3500	4100	4200	3800	3450	4050	3900	3700
0190056	SR208, Main St, 150ft N of SR340 (Bridge St)	3600	3700	3900	5200	5350	5450	4350	4900	4000	4500
0190057	Red Rock Rd, 535ft N of SR828 (Farm District Rd)	200	200	250	220	260	260	260	280	270	370
0190058	SR340, Bridge St, 130ft E of West St	4700	4900	4000	3400	3950	3600	3500	3800	3450	3800
0190059	SR208, Main St, 300ft S of SR340 (Bridge St)	3500	3700	3900	4200	4350	4450	4250	3950	3400	3900
0190060	Cottonwood Ln, 500ft W of Cook Way	4200	3800	4000	4100	4650	2700	4200	4750	5000	5550
0190061	SR340, Bridge St, 190ft E of Sprague Dr	2600	2600	2800	3100	3200	3250	3200	3100	2950	3800
0190063	SR339, Nordyke Rd, 720ft N of SR827 (Mason Rd)	3000	2300	2400	4200	3950	4150	3650	4550	3800	3400
0190064	SR339, Nordyke Rd, 100ft N of Sheltered Hills Dr	1800	2100	2000	1700	1850	1900	1900	2250	1950	1700
0190065	SR827, Mason Rd, 400ft W of SR208 (Topaz-Yerington Rd)	1200	850	740	1200	1250	1200	1400	1650	1300	1500
0190066	SR208, Main St, 665ft N of Arrowleaf Pkwy	2700	2400	2600	3000	3150	3200	2200	3250	2700	3100
0190067	SR827, Cremetti Ln, .25 mi E of SR208	450	300	240	110	430	430	370	540	450	340
0190068	Desert Lakes Dr, 210ft N of Divot Dr	250	200	250	280	270	660	210	250	330	330

Color indicates that this AADT value is estimated

		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Station	Route/Location	AADT	AADT	AADT	AADT	AADT	AADT	AADT	AADT	AADT	AADT
0190075	SR208, Topaz-Yerington Rd, 590ft S of Friedhoff Ln	450	400	370	440	530	560	490	480	510	490
0190080	SR208, Topaz-Yerington Rd, 100ft N of Pine Grove Rd	350	350	350	390	450	460	410	420	400	420
0190089	Smith Gage Rd, 600ft W of SR824 (Day Ln)	100	90	100	90	110	110	110	130	120	110
0190090	SR208, Topaz-Yerington Rd, 200ft S of Carter Ln in Smith	1400	1500	1800	1600	1650	1650	1800	1600	1850	1550
0190091	SR208, Topaz-Yerington Rd, .2 mi W of SR338 S of Smith	900	1100	1500	1300	960	980	1000	1600	1400	1300
0190092	SR338, Sweetwater Rd, 500ft S of SR208 S of Smith	350	400	320	480	430	430	410	530	500	440
0190094	SR208, Topaz-Yerington Rd, .5 mi E of SR823 to Colony District	1700	1800	1800	2100	1750	1750	2150	1850	2100	1750
0190095	SR823, Artesia Rd, 590ft N of SR208	650	650	690	590	610	720	720	770	840	800
0190096	SR823, Artesia Rd, 315ft W of SR823 (Hunewill Ln)	200	200	170	280	220	230	250	270	370	350
0190097	SR824, Day Lane, 530ft E of Lower Colony Rd	250	300	300	350	300	310	290	320	370	300
0190098	SR824, Day Lane, .4 mi S of Artist View Dr	600	600	650	820	530	540	640	720	730	620
0190099	SR829, Wellington Rd, 1.2 mi E of SR208 (Topaz-Yerington Rd)	300	350	300	510	720	470	390	360	630	420
0190101	SR338, Sweetwater Rd, 700ft S of SR829 (Wellington Rd)	400	500	440	270	880	900	860	690	800	700
0190103	SR338, Sweetwater Rd, 3.9 mi S of the County Rd at mp 9.7	300	350	250	400	630	640	560	550	590	450
0190108	SR208, Topaz-Yerington Rd, 300ft S of SR827 (Mason Rd)	1500	1500	1600	1700	1200	1250	1950	2300	1900	2100
0190109	9th St, 845ft E of US95A	900	750	970	860	960	570	1100	1200	1500	1350
0190110	Pete Henrichs Rd, .2 mi N of US95A to Mason Valley Wildlife Mgt Area	350	350	410	530	500	770	560	1050	360	660

Color indicates that this AADT value is estimated

		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Station	Route/Location	AADT	AADT	AADT	AADT	AADT	AADT	AADT	AADT	AADT	AADT
0190111	US95A, .4 mi E of Pete Hendrichs Rd	2300	2800	2600	2900	2850	2000	1900	1250	2900	2800
0190112	US95A, 315ft E of Miley Ln	1600	1900	1700	2000	2100	1900	1200	2250	2350	3450
0190114	IR80, E of the Wadsworth/Fernley Intch 'Exit 46'	19500	21000	22000	23000	24000	23800	23100	21700	21600	21700
0190115	US95A, .6 mi N of Miller Ln	3500	3700	4400	3900	4800	5250	5050	5700	4700	5550
0190116	Burch Dr, .5 mi W of US95A	500	600	640	670	710	730	740	700	710	690
0190119	Hardie Ln, 200ft S of Shadow Ln	900	850	950	1100	1000	1050	1200	1250	940	1350
0190121	Fort Churchill Rd, 130ft N of Columbia Dr	900	900	1400	1500	1550	1400	1400	1950	1950	1950
0190122	Bridge St, 100ft E of Charlotte Ave in Yerington	700	550	580	900	690	720	720	820	730	730
0190123	Orchard St, 90ft E of S Whitaker St in Yerington	30	90	50	60	40	40	40	60	50	40
0190124	Pearl St, 200ft E of SR208	1000	1000	1100	1200	910	920	710	1200	1450	1400
0190125	Fir Ave, 330ft E of US95A	550	450	650	1200	1100	1100	1850	770	690	1500
0190126	Weeks-Ramsey Cutoff Rd, 300ft S of US50	1700	2200	2300	2100	3250	3350	3600	4050	3600	4800
0190127	Truckee Ln, 200ft W of SR427	600	560	610	570	610	590	620	620	590	590
0190128	Miller Ln, 555ft E of US95A	450	450	550	570	950	1200	1150	1450	1300	690
0190129	IR80, W/B on-ramp of the Nevada Pacific Pkwy Intch 'Exit 50'	250	250	330	370	350	450	340	440	380	370
0190130	IR80, E/B off-ramp of the Nevada Pacific Pkwy Intch 'Exit 50'	250	300	330	380	340	390	390	440	480	480
0190131	IR80, E/B on-ramp of the Nevada Pacific Pkwy Intch 'Exit 50'	70	70	70	80	90	90	100	100	120	90
0190132	IR80, W/B off-ramp of the Nevada Pacific Pkwy Intch 'Exit 50'	80	90	100	100	110	140	130	120	120	120
0190134	Vine St, 110ft N of Fremont St			350	230	230	440	410	210	430	430

Color indicates that this AADT value is estimated

		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Station	Route/Location	AADT	AADT	AADT	AADT	AADT	AADT	AADT	AADT	AADT	AADT
0190135	Mission Way, 120ft W of Truck Inn Way in Fernley			250	400	420	240	280	290	270	270
0190136	Miller Ln, 200ft N of Cedar St				490	1500	1550	1850	1850	1400	1400
0190137	Canal Rd, 135ft W of US50/US95A			350	360	360	380	340	380	360	360
0190138	Mull Ln, 260ft E of US50A/US95A (S Fernley)				420	270	220	260	260	180	310
0190139	Jenny's Ln, 60ft W of SR828 (Farm District Rd)			550	610	690	1100	520	540	1150	720
0191100	Linehan Rd, 125ft N of US50	950	1200	990	980	1100	1100	930	1050	1050	1000
0191101	Red Rock Rd, 100ft N of US50	1400	1200	1200	1200	1250	1250	1200	1350	910	1000
0191102	Affonso Dr, 240ft N of US50	2500	2750	2650	2800	1300	1350	2550	3000	2800	2700
0191103	Industrial Pkwy, 125ft W of SR341	1300	3900	1400	1250	1200	1300	1200	1300	1250	1300
0191104	Newman Ln, 150ft S of US50	150	380	420	430	430	450	490	440	490	460
0191105	Kit Kat Rd, 100ft S of US50	500	530	470	520	210	210	280	370	420	390
0191202	Main St, 80ft N of US50	500	610	750	700	580	670	400	690	340	800
0191206	Flowery Ave, 75ft W of US50	790	780	800	720	380	980	770	1200	530	1300
0191208	Fortune Dr, 150ft N of US50	2250	3300	3300	5000	5150	4650	4300	5550	5300	5050
0191209	Retail Rd, 100ft N of US50	1300	1600	1700	1450	2750	3100	2750	3400	3350	3350
0191211	Pine Cone Rd, 180ft E of Rose Peak Rd	1200	1300	1300	2450	2000	3000	1900	2450	2400	2400
0191300	Segale Rd, 180ft S of US50	300	400	380	430	360	400	330	400	400	400
0191301	Graves Dr, 125ft S of US50	100	150	130	120	120	130	100	120	120	120
0191302	Occidental Dr, 100ft N of US50	1000	1000	1100	1200	1200	1250	1200	640	630	630
0191303	Cardelli Dr, 200ft S of US50	350	350	360	360	360	270	280	280	280	280
0191304	Riverboat Rd, 75ft N of US50	2400	2500	2500	3300	4050	4200	3250	3000	2950	3000
0191305	Occidental Dr, 75ft N of US50	400	400	450	680	930	900	360	420	420	420
0191306	Occidental Dr, 85ft S of US50	1600	1700	1800	1300	1350	1300	1400	1650	1600	1600
0191309	Lafond Ave, 100ft N of US50	600	760	740	720	740	790	710	830	810	810
0191310	Mark Twain Ave, 125ft N of US50	200	280	380	210	240	250	180	290	290	290
0191311	Rainbow Dr, 150ft N of US50	200	170	140	100	100	200	180	180	180	160
0191312	Rainbow Dr, 160ft S of US50	150	150	160	200	110	170	160	200	200	160
0191313	Pinenut Dr, 125ft N of US50	200	190	190	100	160	160	290	170	170	210
0191314	Pinenut Dr, 150ft S of US50	150	110	110	110	120	120	130	130	120	180

Color indicates that this AADT value is estimated

		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Station	Route/Location	AADT	AADT	AADT	AADT	AADT	AADT	AADT	AADT	AADT	AADT
0191315	Rainbow Dr, 170ft N of US50	50	40	40	50	150	150	80	80	80	60
0191316	Rainbow Dr, 150ft S of US50	100	100	80	120	180	130	130	140	140	150
0191401	Iron Mountain Rd, 300ft N of US50	340	350	340	300	320	320	300	330	330	310
0191402	Break A Heart Rd, 125ft S of US50	90	240	220	220	220	230	200	220	250	230
0191403	Boyer Ln, 100ft N of US50	520	570	480	610	560	570	650	650	690	720
0191404	Roys Rd, 350ft N of US50	40	40	40	40	40	40	50	40	40	40
0191405	Apache Dr, 400ft N of US50	810	940	890	970	520	520	1100	1150	1150	1200
0191406	Shetland St, 175ft S of US50	250	280	320	320	290	340	330	380	380	430
0191407	Cheyenne Trail, 250ft N of US50	570	620	690	640	700	680	610	620	690	720
0191408	Stagecoach Dr, 200ft N of US50	340	360	450	390	390	400	580	640	540	610
0191409	Caroline Way, 100ft S of US50	250	250	250	230	250	240	250	290	280	260
0191410	Leegard Ave, 100ft S of US50	40	40	50	40	40	50	60	60	60	50
0191501	Shirlee Ave, 200ft S of US50	150	110	150	140	100	150	110	120	120	120
0191502	Topaz St, 100ft S of US50	650	780	560	730	860	770	310	360	380	170
0191504	Ramsey Cut-Off, 100ft N of US95A	1400	1600	1750	1800	3200	3200	3500	3700	4050	4100
0191506	Fir Ave, 200ft W of US95A	350	390	410	400	470	500	430	470	610	670
0191508	Virginia St, 100ft S of US50	250	260	270	240	230	250	280	310	310	300
0191509	Donner Trail, 175ft E of US95A	600	690	700	580	570	610	630	680	600	510
0191510	Lahontan St, 275ft E of US95A	450	460	260	370	200	200	370	400	400	450
0191511	Esmeralda Ave, 125ft E of US95A	250	330	340	290	290	300	290	310	300	330
0191512	Nevada St, 300ft E of US95A	600	390	750	750	720	750	890	970	940	900
0191513	Pyramid St, 150ft E of US95A	300	310	480	550	290	570	320	350	410	320
0191514	Lake Ave, 100ft W of US95A	350	450	880	1100	500	500	540	590	480	300
0191515	Lake Ave, 125ft E of US95A	350	300	360	340	370	370	380	420	350	410
0191516	Idaho Ave, 250ft W of US95A	800	750	790	800	780	840	800	880	900	930
0191517	Bowers Ave, 125ft E of US95A	40	60	50	50	50	50	60	60	60	60
0191518	Spruce Ave, 100ft W of US95A	550	580	620	750	810	810	560	610	590	600
0191519	Spruce Ave, 300ft E of US95A	300	570	440	250	240	260	250	270	270	260
0191522	Onyx St, 100ft S of US50	200	180	190	220	300	300	590	650	560	400

Color indicates that this AADT value is estimated

		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Station	Route/Location	AADT	AADT	AADT	AADT	AADT	AADT	AADT	AADT	AADT	AADT
0191523	Jacaranda Ave, 75ft W of US95A	50	30	40	30	40	40	40	50	50	50
0191524	7th St, 100ft W of US95A	40	30	30	30	40	40	30	30	30	30
0191601	Farrell Ln, 100ft W of US95A	180	220	170	240	250	330	260	290	290	220
0191602	Penrose Ln, 125ft E of US95A	170	260	180	210	220	260	280	310	230	280
0191603	Campbell Ln, 150ft W of US95A	1100	1000	1100	1200	1250	1250	1200	1350	1300	990
0191605	Luzier Ln, 150ft W of US95A	680	850	850	940	970	900	990	1100	920	700
0191606	Snyder Ln, 100ft E of SR339	180	170	120	200	210	160	170	190	180	170
0191607	Nordyke Rd, 200ft E of SR339	30	20	20	20	20	30	30	30	30	30
0191608	Tucker Ln, 125ft W of US95A	330	340	280	350	360	340	320	350	300	280
0191610	Pete Henrichs Rd, 150ft W of Bonanza Ln	170	200	260	240	250	250	830	910	1000	970
0191611	Fox Ln, 150ft S of US95A	190	210	160	190	200	170	230	250	160	160
0191612	Willhoyt Ln, 60ft N of US95A	140	180	150	170	180	130	240	260	140	130
0191613	Willhoyt Ln, 100ft S of US95A	40	50	60	70	70	60	70	70	70	60
0191614	Falcon Way, 175ft N of US95A	150	300	130	150	150	140	190	210	170	160
0191615	Nadel Ln, 125ft S of US95A	230	240	240	250	260	330	310	340	350	330
0191616	Bybee Ln, 100ft N of US95A	290	280	300	270	280	340	370	410	380	360
0191617	Bybee Ln, 125ft S of US95A	30	30	20	30	30	40	40	40	40	40
0191620	Osborne Ln, 100ft W of SR208 (N)	110	120	90	90	90	150	140	150	180	170
0191621	Osborne Ln, 100ft W of SR208 (S)	210	210	250	90	90	100	220	230	120	110
0191622	Tognoli Ln, 125ft E of SR208	200	230	230	160	170	300	230	260	240	230
0191623	McKenzie Ln, 150ft N of SR208	90	220	90	100	100	150	150	160	170	170
0191627	Sierra Way, .5 mi E of US95AN	190	170	90	90	90	100	120	130	100	90
0191701	Hudson Way, 100ft N of SR208	220	250	220	280	290	290	250	430	430	290
0191702	Hudson Auroa Rd, 75ft S of SR208	270	210	200	220	210	230	250	250	250	290
0191703	Hardie Ln, 125ft S of SR208	20	20	30	20	30	20	30	30	30	30
0191704	Carter Ln, 100ft E of SR208	50	40	40	40	20	50	60	70	60	60
0191705	Albright Ln, 125ft E of SR338	40	20	50	90	50	50	70	90	90	90
0191706	Rowntree Ln, 100ft E of SR338	20	60	30	60	30	30	30	30	30	60
0191707	Saroni Rd, 75ft E of SR338	90	70	70	90	120	120	80	120	120	120

Color indicates that this AADT value is estimated

		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Station	Route/Location	AADT	AADT	AADT	AADT	AADT	AADT	AADT	AADT	AADT	AADT
0191708	Desert Creek Rd, 200ft E of SR338	50	40	50	50	50	60	60	60	60	70
0191709	Rivers Rd, 150ft N of SR208	100	70	80	80	90	90	70	60	60	80
0191710	Crosby Ln, 200ft W of SR208	30	40	40	50	50	60	50	50	50	60
0191711	Smith Gage Rd, 100ft N of SR208	40	30	40	30	30	40	20	20	20	30
0191713	Artist View Rd, 100ft E of SR823	300	300	350	320	410	410	280	440	430	440
0191714	Artist View Rd, 150ft W of SR824 (Day Ln)	300	270	350	290	400	400	280	350	350	400

Color indicates that this AADT value is estimated

APPENDIX D
CONTINGENCY PLAN

FACILITY CONTINGENCY PLAN

21ST CENTURY ENVIRONMENTAL MANAGEMENT OF NEVADA, LLC (21EMN) FERNLEY FACILITY

2095 NEWLANDS DRIVE EAST
FERNLEY, NEVADA

JULY 2024

INFO@ALL4INC.COM
610.933.5246
WWW.ALL4INC.COM

STRATEGY WITH SOLUTION.
PARTNERSHIP WITH A PURPOSE.

TABLE OF CONTENTS

Section Name **Page Number**

1. CONTINGENCY PLAN 1-1

2. GENERAL FACILITY DESCRIPTION 2-1

2.1 FACILITY IDENTIFICATION, LOCATION, AND SITE PLAN 2-1

2.2 FACILITY OPERATIONS 2-1

3. HAZARDOUS WASTES HANDLED AT THE FACILITY 3-1

4. EMERGENCY COORDINATOR AND KEY PERSONNEL 4-1

5. IMPLEMENTATION OF THE CONTINGENCY PLAN 5-1

6. EMERGENCY RESPONSE PROCEDURES 6-1

6.1 EMPLOYEE RESPONSE 6-1

6.2 EMERGENCY COORDINATOR RESPONSE 6-5

6.3 SECURITY PERSONNEL/ANSWERING SERVICE RESPONSE 6-6

6.4 NOTIFICATION 6-7

6.5 CONTAINMENT AND CONTROL OF EMERGENCIES 6-8

6.5.1 Injured or Endangered Employees 6-10

6.5.2 Fires and Explosions 6-10

6.5.3 Spills and Releases 6-14

6.5.4 Damaged Shipments 6-17

6.6 PREVENTION OF RECURRENCE 6-17

6.7 EMERGENCY EQUIPMENT 6-18

6.8 POST EMERGENCY PROCEDURES 6-22

6.8.1 Storage and Treatment of Released Materials Potential Flammable or Toxic Gases 6-22

6.8.2 Equipment Decontamination and Maintenance 6-24

6.8.3 Reactivation of Activities in the affected Area 6-24

6.8.4 Personnel Debriefing 6-25

6.9 COORDINATION AGREEMENTS 6-25

6.9.1 Provisions for Adequate Aisle Space 6-27

6.10 EVACUATION PLAN 6-27

6.11 INCIDENT REPORTS 6-32

6.12 AMENDMENTS TO THE CONTINGENCY PLAN 6-32

LIST OF FIGURES

Figure 2-1, Facility Site Plan

Figure 2-2, Facility Access Routes

Figure 6-1, Alarms and Monitoring Equipment

Figure 6-2, Fire Detection and Prevention Equipment

Figure 6-3, Emergency Equipment Locations

Figure 6-4, Facility Exits and Assemble Areas

LIST OF TABLES

Table 1-1 Hazardous Waste Accepted at the Fernley Facility.....3-1
Table 1-2 Emergency and Key Personnel.....4-1
Table 1-3 Alarm Signals.....6-1
Table 1-4 Hazardous Material Characteristics and Handling.....6-2
Table 1-5 Fire Types and Fire Extinguishers.....6-11
Table 1-6 Emergency Equipment List.....6-20
Table 1-7 Potential Vapors and Gases 6-22

1. CONTINGENCY PLAN

In accordance with 40 CFR 264, Subpart D, the following plan will be used in the event of an emergency involving hazardous materials and wastes at the Fernley Facility.

This Contingency Plan contains the following:

- Emergency Guidance: To act as a guide during actual emergency situations.
- Hazard Minimization: To minimize hazards to human health and the environment from fires, explosions, or any structures, or to the air or soil.
- Mutual Aid: To familiarize local emergency response personnel (i.e., sheriff, fire, and rescue departments, hospital and government personnel) with the types of materials handled and internal emergency response procedures.
- Training: To act as a training guide for employees, to familiarize them in proper procedures, and to implement during an actual emergency situation.

Several copies of this plan are maintained at the Fernley Facility at all times for use during an emergency.

In addition, a copy has been submitted to the following agencies:

- Lyon County Sheriff
- North Lyon County Fire Protection District (NLCFPD)
- Lyon County Emergency Management (LCEM) Director
- Renown Urgent Care
- Nevada Division of Environmental Protection (NDEP)

2. GENERAL FACILITY DESCRIPTION

2.1 FACILITY IDENTIFICATION, LOCATION, AND SITE PLAN

The Fernley Facility is located at 2095 Newlands Drive East, Fernley, Nevada. The Fernley Facility location is identified in *Figure 2-1, Facility Site Plan*. The Facility's access routes are indicated in *Figure 2-2*, *Facility Access Routes*.

2.2 FACILITY OPERATIONS

The Fernley Facility is a hazardous waste storage and treatment facility engaged in the following functions:

1. Acceptance of hazardous and non-hazardous industrial, wholesale, and retail waste from various generating industries.
2. Acceptance of metal containing wastes for reclamation.
3. Storage of hazardous materials and waste in tanks and containers. Organic material with greater than 500 ppm VOC or 100,000 ppm TOC will be accepted for storage (no treatment activities on the West Pad Container Storage Area, East Pad Container Storage Area, East Container Storage Area, and the Lab Pack Room.
4. Treatment of aqueous liquid hazardous and non-hazardous industrial waste in tanks and other recovery equipment.
5. Acceptance of used batteries for storage and transportation.
6. Depacking, repacking, and consolidation of lab pack and loose pack materials.

3. HAZARDOUS WASTES HANDLED AT THE FACILITY

The hazardous waste accepted, stored, and treated at the Fernley Facility are presented in Table 1-1.

Table 1-1
Hazardous Waste Accepted at the Fernley Facility

Waste Type	Hazards	EPA Waste Code(s)
Ignitable	Flash point of less than 140°F or ignitable compressed gas or is an oxidizer	D001
Corrosive	pH <2 or >12.5	D002
Reactive	Reactive – possible water reactive or Cyanide or Sulfide waste that is capable of releasing toxic gasses	D003
Toxic	Toxicity	D004-D043
Waste from Non-Specific Sources	Potentially Toxic/Reactive/Acutely Hazardous	F001-F012, F019-F028, F032, F034, F035, F037-F039
Waste from Specific Sources	Corrosive, Toxic	K001-K011, K013- K052, K060-K062, K069, K071, K073, K083-K088, K093-K098, K100-K118, K123-K126, K131, K132, K136, K140-K145, K147-K150, K156-K159, K161, K169-K172, K174-K178, K181
Acutely Hazardous Commercial Chemical Products	Toxic	P001-P018, P020-P024, P026-P030, P033-P034, P036-P051, P054, P056-P060, P062, P064-P078, P081, P082, P084, P085, P087-P089, P092-P094, P097-P099, P101-06, P108-P116, P118-P123, P127, P128, P185, P188-P192, P194, P196-P199, P201-P205
Toxic Commercial Chemical Products	Toxic	U001-U012, U014-U039, U041-U053, U055-U064, U066-U099, U101-U138, U140-U174, U176-U194, U196, U197, U200-U211, U213-U223, U225-U228, U234-U240, U243, U244, U246-U249, U271, U278, U279, U280, U328, U353, U359, U364, U367, U372, U373, U387, U389, U394, U395, U404, U409-U411

4. EMERGENCY COORDINATOR AND KEY PERSONNEL

The Fernley Facility has established key personnel with experience in responding to a spill, fire, or explosion involving hazardous waste described in this section.

At all times, one designated Emergency Coordinator (EC) will be available either on the Facility premises or on call and will be responsible for coordinating all emergency response measures. The EC will have full authority to commit all resources needed to carry out the measures provided in this plan.

The EC will be thoroughly familiar with the Facility Contingency Plan, all operations and activities at the Facility, the location and characteristics of the materials and wastes handled, the location of all Facility records, the Facility layout, and the location of all emergency response and spill clean-up equipment.

In the event of an emergency, the EC must immediately:

1. Activate internal Facility alarms or communication systems to notify all Facility personnel.
2. Ensure that all personnel are accounted for and isolated from danger.
3. Arrange for emergency services for any injured personnel.
4. Notify state or local emergency response teams if their help is needed.
5. Decide whether an evacuation of the Facility and/or surrounding areas is necessary. Note: If the EC believes an evacuation of off- site areas is needed, response agencies will be alerted as outlined in *Section* Coordination Agreements.

A list of the key personnel and local emergency response agencies are provided in Table 1-2.

Table 1-1
Emergency and Key Personnel

Agency	Emergency Number[(1)]	Non-Emergency Number[(1)]
Fire – North Lyon County Fire Protection District	911	775.575.3310
Medical – Renown Urgent Care	911	775.982.5000
Sheriff – Lyon County Sheriff's Department	911	775.575.3350

Electric – NV Energy	775.834.4100 or 800.962.0399	775.834.4444
Gas – Southwest Gas	775.882.0193 or 800.772.4555	877.860.6020
Emergency Coordinators[2]		
Lewis, Gerald – Facility Manager 1762 Hearth Dr, Fernley NV 89408-9795		775.427.0644
Adams, Tony – Maintenance Lead 3 Diablo Circle Fernley NV 89408		775.217.9736
Mary Weinheimer – Materials Manager 7717 Cerritos Circle Sparks Nv 89436		775.530.9492
Trey Watts-EHS Manager 4710 Yukon Court Carson City, NV 89706		775.221.6841
Other Key Personnel		
Randell Wells – Operation Production Manager 1675 Sky mountain Dr Reno NV 89523 apt 1114		445.243.1051
T.J. Mc Caustland – Permitting Compliance Manager 5158 Ashley Drive Covington, Georgia 30014		770.891.2531
Greg Fink – Director, EHS		215.768.6470
Joe Ryan – Transportation Supervisor		775.315.4689
Jenn Anderson – Shipping/Receiving Manager		775.835.3573

[1] Dial Area code for all non 911 calls

5. IMPLEMENTATION OF THE CONTINGENCY PLAN

Where public health or the environment is threatened, the following emergencies would call for the implementation of the Contingency Plan:

a. Fire/explosion anywhere on premises.
b. On-site and off-site releases of hazardous wastes or hazardous waste constituents.
c. The occurrence of natural disasters.

Listed below are detailed examples of the emergency incidents described above.

a. Fire/Explosion

- Any advanced stage of fire (beyond the incipient stage, as defined in 29 CFR 1910.155(c)(26)) that cannot be easily controlled or extinguished by portable fire extinguishers, or small hose systems.
- A fire in which the use of water or chemical fire suppressant could result in contaminated runoff.
- A fire that causes the release of toxic fumes.
- A fire that spreads and could possibly ignite stored materials/chemicals in other locations on-site.
- A fire that could cause heat-induced explosions of materials/chemicals on-site. The potential for explosion poses hazards of flying fragments, ignition of other hazardous materials and their release.

b. Material Release

- A sudden or non-sudden release that poses a threat to public health or the environment or is an uncontrolled release of a reportable quantity of a hazardous substance.
- A release from containment, resulting in soil or surface water or potential groundwater contamination.
- An uncontrolled release originating from a damaged shipment that has arrived at the Facility in such a condition.
- A release of gas to the air originating from an explosion or reaction of materials.

c. Natural Disaster

- A release or potential for release of hazardous materials caused by earthquake or severe flooding conditions that damage equipment, foundations, structures, or tanks.

- A release or potential for release of hazardous materials caused by a severe storm involving high velocity winds or lightning that damages or overturn containers.

6. EMERGENCY RESPONSE PROCEDURES

6.1 EMPLOYEE RESPONSE

In the event of an emergency, employees will attend to their own safety. The employee will first leave the area via the safest exit and either activate the alarm or notify an on-site supervisor. Then, if is safe to do so, they will attend to other employees requiring immediate assistance. Locations of telephones/intercoms are shown in *Figure 6-1*, and alarm signals are listed in Table 1-3.

Table 1-1
Alarm Signals

There are three main types of emergency alarms that will sound throughout the Facility and laboratory areas.
1. Fire Alarm – Buzzer, Horn, or Bell
Immediately proceed by the evacuation route to the Assembly area. The Emergency Coordinator will provide additional instruction.
2. Gas Monitor Alarms – Siren
Immediately proceed by the evacuation route to the assembly area. Check wind direction and move up wind at least 100-feet if the assembly area is downwind. Return to work only after permission is given by the Emergency Coordinator.
3. Medical Alert Alarm – Intermittent Whistle
Immediately proceed by the evacuation route to the assembly area. The Emergency Coordinator will check the panel to determine area of alarm activation and proceed to that area with a first aid kit. Evacuated staff will perform role call to account for all personnel.

Hazardous material characteristics and appropriate handling procedures are identified Table 1-4. Practice emergency drills during which employees use the various alarms and alarm signals are held on a quarterly basis. These drills will be conducted as part of the Facility Training Plan. All employees on-site at the Fernley Facility must participate in emergency drills, and they will be documented in the operating record.

Table 1-2
Hazardous Material Characteristics and Handling

Substance	Location	Life Hazards	Personal Protective Equipment	Storage	Fire Fighting
Concentrated Acids & wastes (commonly plating or stripping solutions)	Tank Storage Area, West Pad Container Storage Area (CSA), East Pad, Lab Pack Room	Extremely toxic DO NOT HANDLE WITH BARE HANDS. Can cause sever deep burns; avoid contact. Breathing concentrated mists can damage upper respiratory tract and lung tissue damage.	Wear full protective clothing (acid resistant) including safety goggles. Upon any contact with skin or eyes, the material should be washed off immediately. Remove contaminated clothing immediately. Wear self-contained breathing apparatus in the presence of mists or vapors, or for cleaning up spills.	Store away from cyanide and sulfide materials or combustible materials.	Material is not normally flammable. Use large amounts of water or smother with suitable powder. Fire fighters must be protected from contact with the material. Wear SCBA to protect against corrosive vapors which may be given off.
Cyanide solutions	Tank Storage Area, West Pad CSA, East Pad, Lab Pack Room	Extremely toxic. DO NOT HANDLE WITH BARE HANDS. Releases highly toxic and flammable hydrogen cyanide gas on contact with acids. Very toxic through inhalation or ingestion. Also, can be absorbed through the skin.	Wear full protective clothing including safety goggles. Upon any contact with skin or eyes, the material should be washed off immediately. Wear self-contained breathing apparatus when cleaning up spills.	Separate from acids and oxidizing materials.	Water, dry chemical, alcohol foam or carbon dioxide may be used to fight a fire in an area containing cyanides. In advanced or massive fires, firefighting should be done from a safe distance or from a protected location. Fire fighters should wear protective clothing and SCBA
Metal sludges (hydroxide)	West Pad CSA, East Pad	Ingestion of large amounts can cause intestinal disorders and even death. Toxicity primarily due to metals. Hydrogen sulfide can be released upon contact with acids and powerful oxidizers.	Wear full protective clothing including safety goggles. Self-contained breathing apparatus should be worn if hydrogen sulfide presence is suspected (rotten egg smell).	Keep separate from strong Oxidizers	Essentially nonflammable, however, if ignited must treat as a metal fire. Normal fire extinguishers, water, CO_2, foam, may not be effective. Dry sand, ultra-sorb may be required to blanket fire.

Substance	Location	Life Hazards	Personal Protective Equipment	Storage	Fire Fighting
Acid Solutions	Tank Storage Area, West Pad CSA, Lab Pack Room, East Pad	Corrosive. Contact can cause burns, damaged sight. Can be toxic if ingested. Breathing of concentrated mists can damage upper respiratory tract and lung tissue.	Wear full protective (acid resistant) clothing including safety goggles. Upon any contact with skin or eyes, the material should be washed off immediately. Remove contaminated clothing. Wear self-contained breathing apparatus if mists or vapors are present.	Store away from cyanide and sulfide materials or combustible materials.	Material is not normally flammable. Use extinguishing agent appropriate for surrounding fire. If this material comes in contact with cyanide solutions, toxic cyanide gas may be released. Fire fighters should wear self-contained breathing apparatus. Explosive hydrogen gas may be released on contacting metals.
Alkaline Solutions	Tank Storage Area, West Pad CSA, Lab Pack Room, East Pad	Toxic. A severe eye hazard concentrated solution destroys tissue on contact.	Wear full protective clothing (splash resistant), including goggles and face shield.	Separate from acids, metals, explosives, organic peroxides, and easily ignitable materials.	Material is not normally flammable. Use extinguishing agent appropriate for surrounding fires. Fire fighters should wear protective clothing and avoid contact with material
Oxidizers Liquids and Solids,	West Pad CSA, Lab Pack Room East Pad	Oxidizer: Capable of supplying oxygen to a fire, making extinguishing difficult.	Wear full protective (acid resistant) clothing including safety goggles. Upon any contact with skin or eyes, the material should be washed off immediately. Remove contaminated clothing including goggles.	Separate from strong reducing agents, metals, flammables and combustibles, and easily ignitable materials.	Use water only, attempt to remove heat and fuel source.

Substance	Location	Life Hazards	Personal Protective Equipment	Storage	Fire Fighting
Flammable Liquids	West Pad CSA, Lab Pack Room, East Pad, APU	Material with a flashpoint below 140	Wear full protective clothing, including goggles.	Separate from oxidizers, corrosive acids and bases, water reactive compounds and poisons.	Use dry chemical or CO_2 fire extinguishers.
Water Reactive Liquids and Solids	West Pad CSA, Lab Pack Room, East Pad	Reactive: Capable of becoming spontaneously flammable or produce toxic or flammable gases	Wear full protective clothing, including goggles.	Separate from, flammables, oxidizers, organic peroxides, concentrated acids and bases, cyanides and sulfides	Use dry chemical or CO_2 fire extinguishers. DO NOT USE WATER.

For newly hired employees, Contingency Plan training will be held prior to the employee working in the active areas of the Facility. In all emergency situations (regardless of size or extent), the employee involved in or discovering the situation will first contact the EC and provide information as to the location, nature, and extent of the incident. The names, addresses, and telephone numbers of the Primary and Alternate Emergency Coordinators are found in Table 1-2.

6.2 EMERGENCY COORDINATOR RESPONSE

In the event of an emergency, the EC will first evacuate the affected portion of the Facility, or, as necessary, the entire Facility. The EC will account for all employees and notify the appropriate emergency responders.

The EC will identify the character, exact source, amount, or extent of released materials through direct observation, review of operating records, manifests, waste analysis reports, or chemical analysis.
The EC must also assess the possible hazards to human health or the environment that may result from any release, fire, or explosion (e.g. the effects of any toxic, irritating, or asphyxiating gases that are generated) or the effects of any hazardous surface water runoff from water or chemical agents used to control fire. The EC must consider both direct and indirect effects of any release, fire, or explosion. The EC shall use their best professional judgment for the assessment of possible hazards. If the emergency threatens human health and/or the environment outside the Facility, the EC must provide the following information to responders:

1. Name and telephone number of reporter;
2. Name and address of the Facility;
3. Time and type of incident (e.g. release, fire);
4. Name and quantity of material(s) involved;
5. The extent of any injuries;
6. The possible hazards to human health or the environment outside the Facility;
7. Medium of release;
8. In assessing whether the evacuation of local areas is necessary, the EC will assess:
    a. The nature and toxicity of the material involved in the emergency;

b. Prevailing wind;
c. Potential for migration outside the Facility;
d. Possibility of explosion and a pending release of toxic vapors, gases, or mists.

During an emergency, the EC will take any and all measures they deem necessary (e.g. stop operations, isolate containers, etc.) To ensure that fires, explosions, or releases do not occur, reoccur, or spread to other hazardous waste areas of the Facility. If the Facility stops operations, the EC will monitor for leaks, pressure buildups, gas generation, or ruptures in pipes, valves, or other equipment.

Detention pond and sumps will be monitored during an emergency event. After an emergency, the EC will:

- Supervise cleanup efforts and ensure that the recovered waste or contaminated material is properly treated, stored, or disposed of.
- Ensure that no waste that may be incompatible with the released material is treated, stored, or disposed of until cleanup procedures are completed.
- Make sure emergency and spill cleanup equipment is back in order before operations resume.
- Inspect all emergency equipment listed in the Contingency Plan and certify that said equipment is cleaned and fit for its intended use before operations are resumed.

6.3 SECURITY PERSONNEL/ANSWERING SERVICE RESPONSE

A privately owned security response service is employed by the Facility. In the event of an alarm from a release, the company calls the Facility for confirmation. If no one answers the telephone, a call is initiated to the EC. The EC will determine if outside assistance is required and will request the service call the NLCFPD. The service is responsive to fire, cyanide alarms, hydrogen sulfide alarms, and medic alarms.

6.4 NOTIFICATION

Following an incident requiring implementation of the Contingency Plan, the following notifications will be made:

1. Within one (1) hour of event, call Nevada Department of Emergency Management at (775) 687-4240 (24-hr phone number), and provide the following:
    a. Report incident and receive State Incident Number. Write down State Incident Number, person contacted, date and time of day.
2. Within one (1) hour of event, call LCEM at (775) 463-6510 or 302-7088 and:
    a. Report incident and State incident number, note person contacted, date and time of day.
3. Additionally, the NDEP (telephone (888) 331-6337 nights/weekends) Air, Water, and/or Hazardous Waste divisions must be notified within 24 hours. Finally, if a reportable quantity is released, the U.S. EPA National Response Center (telephone number [800] 424-8802) must be notified immediately.
4. Within 15 calendar days after an incident requiring Contingency Plan implementation or the release of a reportable quantity, the owner or operator will submit a written report to the Director of NDEP documenting the following:
    a. Name, Address and Telephone Number of the Owner or Operator.
    b. Name, Address, and phone number of the Facility.
    c. Date, Time and Type of Incident, including the name and quantity of materials involved.
    d. The extent of injuries, if any.
    e. An assessment of actual or potential hazards to human health or the environment, where applicable.
5. Estimated quantity and disposition of recovered material that resulted from the incident.

Also, within 15 days, the written follow up report will be sent to the following agencies:

Nevada Department of Emergency Management
2525 South Carson Street
Carson City, NV 89710

Nevada Department of Environmental Protection Bureau of Corrective Actions
Attn: Bureau Chief
901 S. Stewart Street, Suite 4001 Carson City, NV 89701

Nevada Division of Environmental Protection Bureau of Waste Management
Attn: Permitting Supervisor
901 S. Stewart Street, Suite 4001 Carson City, NV 89701

Lyon County Emergency Management
Attn: EM Coordinator
127 S. Main Street
Yerington, NV 89447

North Lyon County Fire Protection District
Attn: Fire Chief
195 E. Main Street Fernley, NV 89408

Fernley Town Board
P.O. Box 1624
Fernley, NV 89408

6.5 CONTAINMENT AND CONTROL OF EMERGENCIES

This plan has been developed and organized to afford maximum guidance during an incident of any magnitude. The EC and personnel employed at the Fernley Facility are thoroughly familiar with this document and will follow prescribed procedures in the event of an emergency.

Should an emergency situation arise, the EC will be notified immediately. Concurrently, all Facility personnel will be notified where required. Sheriff departments, federal, state or local agencies or contractors will be notified if their assistance is required.

Fire:
195 E. Main Street
Fernley, NV 89408
911

Police:
Lyon County Sheriff
555 East Main Street
Fernley, NV 89408
(775) 575-3350 Fernley Sub Station
(775) 463-6620 Dispatch (or)
(775) 577-5023 Dispatch

Emergency Department:
Northern Nevada Medical Center
2375 Prater Way
Sparks, NV 89434
(775) 356-4040

Chemical Information:
Chemtrec
Chemical Transportation Emergency Center
Washington, D.C.
(800) 424-9300

Spill Clean-up:
Clean Earth Emergency Response
https://www.cleanearthinc.com/services/emergency-response
(877) 577-2669

Security Company:
Desert Hills Fire and Security
deserthills.com
Sparks, NV
(775) 359-2005

NV Department of Emergency Management:
2478 Fairview Drive #B
Carson City, NV 89710
(775) 687-0300

Medical:
Renown Urgent Care
1343 West Newland Drive
Fernley, NV 89408
(775) 982-5000
Mon–Fri, 9AM-7PM
Sat–Sun, 9AM–3PM

State Police:
Nevada Highway Patrol
555 Wright Way
Carson City, NV 89710
(775) 687-5300

Lyon County Emergency Management:
27 S. Main Street
Yerington, NV 89447
(775) 463-6531 (or) (775) 577-5037

Spill Clean-up Alternate:
H2O Environmental
3510 Barron Way #200
Reno, NV 89511
(775) 351-2237

Danger Outside Facility:
National Response Center
(800) 424-8802

6.5.1 Injured or Endangered Employees

Various medical emergency and first aid equipment is maintained on-site. The general first aid response to medical emergencies and injuries is as follows:

- Move victim to fresh air; call emergency medical care – 911 for emergency ambulance dispatch.
- If not breathing, give artificial respiration.
- In case of contact with material remove clothing, if necessary, immediately flush skin and eyes with running water for at least 15 minutes and keep warm.
- Remove and isolate contaminated clothing and shoes.
- Administer additional specific first aid as appropriate.
- Keep victim warm and await the arrival of emergency medical response unit.
- Ensure that a description of the incident and the materials involved (provide SDS or waste profile) accompanies the victim to the hospital. The SDS or profile should be provided for the hazardous material. As determined advisable by the EC, a member of the management team should accompany the victim to the hospital.
- SDS and waste profiles are maintained at the Fernley Facility.

6.5.2 Fires and Explosions

<u>Fire/Explosion – Emergency Procedures</u>

Refer to Table 1-5 regarding Fire Classes and Fire Extinguishers. Refer to Table 1-4 for identification of hazardous material characteristics and appropriate handling procedures. Depending upon the magnitude of the fire incident and the amount of material involved, the following emergency procedures will be implemented.

Table 1-3
Fire Types and Fire Extinguishers

Fire Types and Fire Extinguishers		
Fire Class	**Fire Description**	**Use Fire Extinguisher Class**
A	Ordinary Combustibles – Wood, paper, plastics	Multi-purpose (ABC) rated, water, fire foams - Aqueous Film Forming Foam (AFFF) /Alcohol Type Concentrate (ATC) DO NOT USE CO_2 OR DRY CHEMICAL
B	Flammable Liquids, Greases or Gases	Dry Chemical (BC)
C	Energized Electrical Equipment – Live wires	CO_2, Halon, ABC, BC rated DO NOT USE WATER
D	Elemental Metal Fires – Magnesium, Lithium	Class D rated extinguishers only.
Fire Extinguishers		
Extinguisher	**Class**	**Description**
Water, Pressurized Water	A	Extinguish by cooling, soaking and penetrating solid combustible hazards. Good for oxidizers.
Multi-purpose	ABC	Contains siliconized mono-ammonium phosphate, forming vapor barriers and displacing oxygen.
Foam	ABC	AFFF → effective vapor barrier cutting off fuel source.
CO_2 – Carbon dioxide	BC	Extinguishing by displacing oxygen. Good for liquid flammables and electrical fires.
Dry Chemical	BC	Contains siliconized sodium bicarbonate. Suitable for use on all types of electrical and flammable liquid and gas fires. Forms vapor barriers and displaces oxygen.
Clean Steaming Agents Halon 1211	BC	These agents are stored as a liquid and discharged under pressure as a vapor, causing no cold or static shock. The unit extinguishes fire by chemically interacting. Good for flammables and electrical fires.

Fire Types and Fire Extinguishers		
Powder Type	D	Contains Sodium chloride based dry powder. Heat from the fire causes it to cake and form a crust excluding air and dissipating the heat from the burning metal. Copper powder units smother fires.

Small Spill on Fire

1. Grab fire extinguisher and extinguish flames. If unable to immediately extinguish, sound alarm and leave area. If not extinguished, follow procedures in *Section 7.4.3.2* for large fires.

2. Notify EC. The EC will notify the local fire authorities if the EC deems the fire will require additional manpower to manage the situation by dialing 911 on any available phone.

3. If the EC or one of the alternates is not immediately available to make this determination, the decision to call the Fire Department falls upon the shift lead or operations personnel in charge at the time of the incident.

4. Eliminate and continue to restrict all sources of ignition so the fire will not re-ignite.

5. Wearing boots, protective gloves, and eye protection, stop leak. Absorb spill with absorbent or pump to standby empty recovery drums.

6. Follow spill cleanup procedures described in *Section 7.4.3.3*.

Oxidizers on Fire

1. (Employee) Leave the area via the safest exit and notify the supervisor in charge of that portion of the Facility, the EC, or Facility Manager whichever supervisor is immediately available.

2. (Supervisor) If safe to do so, grab a water hose, DO NOT USE HALON, CO_2, DRY CHEMICAL OR FOAMS TO EXTINGUISH FLAMES; oxidizers create their own oxygen. To put out a fire you have to remove the heat/ignition source or eliminate or reduce the flammability of the fuel source. If unable to immediately extinguish, sound alarm and leave area. If not extinguished, follow procedures in *Section 7.4.3.2* for large fires.

3. Notify EC. The EC will notify the local fire authorities if the EC deems the fire will require additional manpower to manage the situation by dialing 911 on any available telephone.

4. If the EC or one of the alternates is not immediately available to make this determination, the decision to call the Fire Department falls upon the shift lead or operations personnel deemed in charge at the time of the incident.

Flammable Liquids on Fire (West Pad or East Pad Container Storage Area, Lab Pack Room)

1. (Employee) Leave the area via the safest exit and notify the EC or supervisor in charge of that portion of the Facility whichever is immediately available.

2. (Supervisor) If safe to do so, grab compatible fire extinguisher and extinguish flames following procedure outlined in *Section 4.3.2.1* for small fires. If unable to immediately extinguish, sound alarm, leave area and notify EC.

3. If the EC determines the fire will require additional manpower to manage the situation, he will contact the fire department by dialing 911 on any available telephone. If the EC determines the fire is controllable, he/she will contact trained employees. If fire does not extinguish, all personnel should evacuate the building and wait for the arrival of the Fire Department following the procedures outlined in *Section 4.3.2.4* for large fires.

4. If the EC or one of the alternates is not immediately available to make this determination, the decision to call the Fire Department falls upon the shift lead or operations personnel in charge at the time of the incident.

Large Fire or Large Spill on Fire (West Pad or East Container Storage Areas)

1. Sound Emergency Fire Alarm using pull box.

2. Office personnel call NLCFPD upon sounding of emergency alarm by dialing 911 or calling (775) 575-3310.

3. Notify EC (if not already aware of the situation).

4. All personnel will immediately evacuate the building via the nearest exit, whenever the fire alarm sounds. They will not return to their workplace until cleared by the EC.

5. In the event of a release of toxic gases or the potential for explosion, off-site evacuation may be advisable.

6. Determine the most accessible and safest route of approach to the fire. Consider flame migration potential, associated dangers and physical limitations. Attempt to determine the nature and source of the burning material using knowledge of tank and container contents.

7. When Fire Department arrives, delegate to them primary responsibility. Stand by for assistance.

8. Cool nearby tanks with water (being careful of any water reactions).

9. When fire is extinguished, remedy point source to stop flow if it can be done without risk.

10. Absorb spilled material or pump to available tank or empty containers. Use shovel to spread standard industrial absorbent over affected area.

11. Collect contaminated material (i.e., absorbent, dry chemical, rags, etc.) in recovery drums.
12. Decontaminate boots, gloves, goggles, face shields, self-contained breathing apparatus and other reusable emergency response equipment.
13. Cleanup, restore or replace emergency response equipment, and return it to its original location.
14. Inspect emergency equipment as specified in *Section 7.4.5*. See Equipment Inspection Form.
15. Label and mark recovery drums in accordance with all applicable hazardous waste rules and regulations.

6.5.3 Spills and Releases

In the event of a spill, leak or release of any kind, the following general steps will be followed:

1. Notify EC or Alternate (verbal communication).
2. Determine source of leak or spill immediately identify the character, exact source, amount and area affected by the release. Shut off pump(s) if possible, without endangerment of personnel.
3. Eliminate and continue to restrict all sources of incompatible materials or ignition from spill area, and areas down-wind of the spill area.
4. Assessment: The EC will assess possible hazards to human health and the environment by considering both direct and indirect effects of released material.

<u>Uncontrolled Spills</u>

Follow General Spill Procedures identified above.

1. Don appropriate PPE. Type of respirator will be determined by the EC using published OSHA and NIOSH standards for the materials identified.
2. Identify, remedy, and stop point source where possible.
3. Dike spill with Standard Industrial Absorbent as required.
4. Once flow is stopped, pump spilled material to empty tank or recovery drums, or absorb spilled material with Standard Industrial Absorbent. Use shovel to uniformly disperse absorbent over affected area.

5. Collect contaminated material (i.e., absorbent rags, etc.).

6. Decontaminate boots, protective clothing, gloves, and face shield. Dispose of Tyvek suits into a recovery drum with contaminated absorbent.

7. Cleanup, restore or replace spill response equipment, and return it to its original location.

8. EC will complete physical inspection of all emergency equipment to ensure the equipment is cleaned and fit for its intended use as specified in the Equipment Manufacturer's Operating Procedures. See Equipment Inspection Form.

9. Label recovery drums in accordance with all applicable hazardous waste rules and regulations.

10. Observe proper hygiene procedures during decontamination of personnel.

6.5.3.1 Contained Spills

Spills within Diked Tank Storage/Treatment Areas:

1. Immediately notify EC. He will determine whether toxic or irritating fumes may be formed. The EC will prescribe appropriate respiratory protection using published OSHA and NIOSH guidelines for the identified material. Activation of the contingency plan is at the prerogative of the EC based on criteria defined in *Section 1.3, Implementation of the Contingency Plan*.

2. EC will summon outside assistance as required.

3. Contact laboratory personnel to determine which tanks are available and/or compatible with spilled materials.

4. Pump into the appropriate storage tank.

5. All tanks are in bermed containment areas with berms designed to contain 110 percent of the total volume of the largest tank within the berm; escape from the berm is a low probability.

6. Each berm has a sump with a level alarm. The sumps are designed to allow pump out using portable air or electric operated pumps. There are no drains associated with the sump, thus eliminating underground piping that might leak.

7. In the event of a leak or spill, the spilled material is washed into the sump and pumped to the appropriate storage tanks or reactor at the direction of the EC in conjunction with the laboratory personnel and outside assistance as required.

8. The maximum estimated cleanup time required for such an emergency is one hour for up to the first 300 gallons and an additional hour for each additional 1,000 gallons.

9. Clean and repair spill area thoroughly.
10. The estimated repair time for tanks will vary with the specific flow; however, tanks will not be returned to service until repaired.

Spills within Truck Unloading Area:

1. Immediately notify EC. They will determine whether toxic or irritating fumes may be formed. The possibility of hazardous vapors always exists from a spill of hazardous materials. The EC will prescribe appropriate respirators. Activation for the Contingency Plan is the prerogative of the EC based on criteria defined in *Section 1.3*, *Implementation of the Contingency Plan*.
2. The EC will summon outside assistance, such as a spill cleanup contractor, as required.
3. The EC will determine whether or not the spilled material will remain within the spill control area and whether to use absorbent material to contain the spill if necessary.
4. Contact laboratory personnel to determine which tanks are available and/or compatible with spilled materials.
5. Pump to appropriate storage tanks.
6. Clean spill area thoroughly.

Spills on West Pad Container Storage Area, East Pad Container Storage Area, East Container Storage Area, Lab Pack Room, and APU:

Immediately notify EC. They will determine whether toxic or irritating fumes may be formed. The possibility of hazardous vapors always exists from a spill of hazardous materials. The EC based on criteria defined in *Section 1.3*, *Implementation of the Contingency Plan*.

1. The EC will summon outside assistance, such as a spill cleanup contractor, as required.
2. The EC will determine whether or not the spilled material will remain within the spill control area, and use absorbent material to contain spill if necessary.
3. Portable tanks or drums will be maintained to recover any spilled material and wash water.
4. Clean spill area thoroughly.

Spills in Solids Receiving Area:

1. Immediately notify EC. Activation for the Contingency Plan is the prerogative of the EC based on criteria defined in *Section 1.3*, *Implementation of the Contingency Plan*.
2. The EC will summon outside assistance, such as a spill cleanup contractor, as required.
3. The EC will determine whether or not the spilled material will remain within the spill control area and use absorbent material to contain spill if necessary. Containment in the Solids Receiving Area is adequate to fully contain the largest possible spill.
4. Clean spill area thoroughly.

6.5.4 Damaged Shipments

Damaged shipments leaking through the vehicle bed will be immediately placed in secondary containment. Refer to *Section 7.4.3.3* for spills and contained spill response. The vehicle route will be retraced to determine if waste was released off-site. Mass balance computations will be conducted, if feasible.

6.6 PREVENTION OF RECURRENCE

The EC will take all necessary steps to ensure that a secondary release, fire, or explosion does not recur after the initial incident. The EC will ensure that incompatible wastes are not treated or stored in the affected area. Waste compatibility is determined in accordance with the Facility Waste Analysis Plan.

If the Facility stops operations in response to a fire, explosion or release, the EC will monitor associated tanks for leaks, pressure build up, gas generation, or leaks and for ruptures in valves, pipes, or other equipment until the emergency has ended and normal operations can resume.

The EC together with the assistance of company Engineering, Operations, and Environmental, Health and Safety Departments will evaluate the incident to understand why and how the incident occurred and what future modifications or changes can be initiated to prevent a recurrence of the same or a similar situation. Evaluations will include equipment design, operational procedures, response tactics and personnel safety.

6.7 EMERGENCY EQUIPMENT

40 CFR 264.52(e) requires that the Fernley Facility maintain a list of all emergency equipment at the Facility.

In addition, the location of each piece of equipment must be specified along with a brief outline of its capabilities. At a minimum, this equipment includes:

- An internal communications or alarm system capable of providing immediate emergency instruction (voice or signal) to Facility personnel.
- A device, such as a telephone (immediately available at the scene of operations) or a handheld two-way radio, capable of providing immediate emergency instruction (voice or signal) to Facility personnel.
- Portable pumps, fire extinguisher, fire control equipment (including special extinguishing equipment, such as that using foam, inert gas or dry chemicals), spill control equipment and decontamination equipment.
- Water at adequate volume and pressure to supply water hose streams, or foam-producing equipment, or automatic sprinklers, or water spray systems.

With regard to preparedness and prevention, the following emergency response equipment is maintained at the Fernley Facility:

<u>Communications Equipment and Alarms</u>

- Telephones are available throughout the Facility. Each department has a phone with a list of emergency telephone numbers. The permit will be modified when the list of Emergency Coordinators changes. The list of Other Key Personnel may change without a permit modification being required.
- A phone operated public address system is maintained at this Facility to provide immediate instruction to all personnel.
- A manually operated air horn is maintained in a cabinet near the entrance to the offices in the event the PA system is or becomes inoperative.

<u>Fire Control Equipment</u>

The following firefighting equipment is available:

- Fire Hydrants are located on the premises for fire truck link-up and use.
- Twelve 20-pound ABC-rated Fire Extinguishers are located in the Facility provided in *Figure 6-2*, *Fire Detection and Prevention Equipment*.
- Main building has a fire sprinkler system throughout.
- Fire alarms are automatically activated when the sprinkler system is activated.

The following spill control equipment is available on-site in the northwest section of the truck bay:

- 20 empty open-top drums;
- 5 shovels.
- 200 pounds of industrial absorbent.

An emergency generator is located on the east side of the Facility. This generator is a backup source of electrical power to the Facility. The primary usage of the emergency back-up generator is for lighting, scrubber operation, and safety requirements.

The West Pad Container Storage Area has two spill kits as provided in *Figure 6-3, Emergency Equipment Locations.*

Personnel Protective Equipment

All Facility operators and potential emergency responders are issued the following PPE:

Hard hat, glove liners, heavy-duty gloves, steel toed chemical resistant boots, coveralls, and full-face respirators. These PPE items are inspected by the operator each day and replaced as needed. A list of emergency equipment is provided in Table 1-6.

Table 1-4
Emergency Equipment List

Item	Locations	Capability
Communications and Alarms		
Telephones	All office Areas, Detox, Truck Bay, Maintenance, Solids Receiving	Public Address
Manually Operated Air Horn	Entrance to Office Area	Back-up Evacuation Alarm
Fire Alarms	SE Corner of Truck Bay, SW Wall of Truck Bay, NW Wall of Truck Bay, West Wall of Storage Bay, East Wall of Storage Bay, west Wall of Utility Room, West Wall of the Lobby, NW Corner of Detox, North Wall of Dewatering, North Wall of Hallway at the East Exit, SE Corner of Dewatering, SW Corner of Detox, SW Corner of the Lab Pack Room	Fire Notification
Man-Down Alarms	SW Ramp of Storage Bay, North Wall of Crystallizer Area, SW of Wet Lab, SE Corner of Instrument Lab, North Wall of Boiler Area, NW corner of Dewatering, SW Corner of locker Room, East Wall of Break room, NW Corner of Detox, NW Ramp of Storage Bay	Casualty Notification
Cyanide Alarm Sensors	Storage Bay in between Tank S-1 and S-2, Detox between T-6 and T-7, HVAC between Detox and Storage Bay. Truck Bay Receiving Door, Scrubber Room	Provide Notification of CN Release and Evacuation
Hydrogen Sulfide	Scrubber Room, HVAC between Detox and Storage Bay	Provide Notification of Hydrogen Sulfide Release and Evacuation
Fire Control Equipment		
Fire Hydrants	NE Corner of Facility, East Side of Facility	Water Capacity for Fire Dept
Sprinkler System	Throughout Building	Automatic Fire Suppression System

Item	Locations	Capability
Fire Extinguishers	East side of check-in pad, East Side of West Storage Pad, NE Corner of Truck Bay, NW Wall of Truck Bay, SE Corner of Truck Bay, West Wall of Storage Bay, North Wall of Crystallizer Room, South Wall of Storage Bay, SW Corner of Detox, SW Wall of Dewatering, SE Corner of the Lab Pack Room, East Wall of Maintenance Shop, NW Corner of solids Receiving, NW Wall of Detox, East Wall of Storage Bay, Storage Bay Entry, SW Corner of Wet Lab, SE Wall of Instrument Lab, Detox Entry, Lobby Entrance, East Wall of Electrical Room, Wet Wall of Men's Locker Room, SE Corner of Break Room	Fire Suppression
Spill Control Equipment		
20 Open Top Drums	NW corner of Truck Bay	Mitigate released, provide containers for release
Shovels	NW corner of Truck Bay	Mitigate releases, provide means of cleaning up spills on solid matrix
Spill Kit	South end of West Pad, Truck Bay	Mitigate releases, provide means of cleaning up spills on solid matrix
2,000 pounds of Absorbent	NW corner of Truck Bay	Mitigate releases, provide means of absorbing liquid spills
First Aid Equipment		
First Aid Kit	Break Room, Wet Lab, Office, Lab Pack Room, APU Building	Application of immediate medical response
Calcium Gluconate	Lab, Lab Pack Room, Truck Bay	For response to hydrofluoric acid contamination
Personal Protective Equipment		
Self-Contained breathing Apparatus (SCBA)	Four in office area	Provide Respiratory Protection for Release
Protective Masks	Throughout Facility	Full Face mask with hook up for canister
Disposable Tyvek and Tychem suits and lightweight gloves	Throughout Facility	Protects against chemical threats and hazards

Item	Locations	Capability
Heavy duty gloves and boots (pairs)	Throughout Facility	Provide abrasion and drop protection
Hard hats	Throughout Facility	Provide head protection
Acid Resistant suits	Throughout Facility	Provide skin and body protection
Personal Decontamination Equipment		
Emergency Showers/Eye Washes	South end of West Pad, Instrument Lab, East Side of Solids Receiving, SW Wall of Detox, North Wall of Crystallizer Room, NW Corner of Dewatering, SW Corner of Men's Locker Room, SW Corner of Detox, Lab Pack Room	Provide mitigation of personal contamination

6.8 POST EMERGENCY PROCEDURES

Following an emergency or evacuation, the EC will instruct employees to conduct a daily inspection of all areas. *Section 6*, *Procedure to Prevent Hazards*, delineates all items for inspection. Only upon completion of these inspections will the Facility return to normal operations.

6.8.1 Storage and Treatment of Released Materials Potential Flammable or Toxic Gases

A list of flammable or toxic gases with a potential of being formed from chemicals used at the Facility, the method of detection, and possible methods to remedy, neutralize, capture, or control the gas is provided in Table 1-7. All possible combinations or gases may not be included on this list.

Table 1-5
Potential Vapors and Gases

Vapor/Gas	PEL/IDLH	Cause of Formation	Detected By	Remedy, Capture, Neutralization Techniques
Ammonia	30/300	Raising pH above 9.0 when ammonium species are present in solution	Odor, NH_3 colorimetric tube	Lower pH of solution to <9.0. Recover ammonia with a mildly acidic Hydrochloric acid solution in an air scrubber.

Vapor/Gas	PEL/IDLH	Cause of Formation	Detected By	Remedy, Capture, Neutralization Techniques
Chlorine gas	1/10	Decomposition of Sodium hypochlorite (Bleach) from mixing with acid, metal, or other impurities	Odor, Cl_2 colorimetric	Raise the pH of the solution >9.0. Capture gas by running through an alkaline air scrubber with a slight Sodium metabisulfite excess.
Hydrogen Cyanide	10/50	Mixing cyanide waste solutions with acids to a pH <8.0.	HCN Monitors	Raise the pH of the solution > 12.5. Capture gas by running through an alkaline/caustic air scrubber with a slight Sodium hypochlorite excess.
Hydrogen Gas	N/A	Acidification of Sodium borohydride solutions, strong acids on elemental zinc, cadmium. Lab reagent.	Combustible gas meter	Avoid sparks and flames, ventilate area well, eliminate source of gas by neutralizing acidic solutions.
Hydrogen Sulfide	20/100	Acidification of Sodium borohydride solutions, strong acids on elemental zinc, cadmium. Lab reagent	Combustible gas meter	Avoid sparks and flames, ventilate area well, eliminate source of gas by neutralizing acidic solutions.
Hydrogen Sulfide	20/100	Acidification of solution containing reactive or amenable sulfides.	H_2S Monitors	Raise the pH of the solution > 12.5. Capture gas by running through an alkaline/caustic air scrubber with a slight Sodium hypochlorite excess.
Nitrogen oxides	5/20	Mixing Nitric acid with a reducing agent such as Sodium metabisulfite, Nickel solutions, trivalent chrome	NO_X colorimetric tube, visible fumes	Add an oxidizer such as Potassium permanganate or hexavalent chromic acid. Alternatively, raise the pH of the solution >4.0. Capture gas with an alkaline air scrubber.
Sulfur dioxide	5/100	Mixing acids with Sodium metabisulfite, dilution or neutralization of conc. H_2SO_4	SO_2 colorimetric tube	Raise the pH of the solution to >3.0 or add hexavalent chromic acid. Capture gas with an alkaline air scrubber.

Note: During an emergency situation, the concentration of the gaseous release is unknown. There could also be more than one gas present depending on the solution generating the gas. Always approach an emergency situation with the maximum amount of respiratory protection; SCBA.

6.8.2 Equipment Decontamination and Maintenance

All Facility communication or alarm systems, fire protection equipment, spill control equipment, and decontamination, where required is tested and maintained to assure its proper operation in case of an actual emergency.

6.8.3 Reactivation of Activities in the affected Area

Prior to resuming normal operations, the EC will ensure that all emergency equipment is inspected and returned to operating condition.

The EC must take the following precautions for the prevention of incompatible waste from being treated, stored, or located in the affected areas:

1. No new waste will be introduced into the affected area until a total cleanup is accomplished.
2. Following the spill cleanup operation, the EC will assess proper handling of recovered materials including:
    a. If the exact source of the leaked or spilled material can be determined, the cleanup residue will be identified accordingly.
    b. If the exact source of the leaked or spilled material cannot be determined or if two or more materials have mixed and subsequently been cleaned up, a sample will be collected and analyzed. Spill cleanup residues of listed hazardous wastes are automatically considered as the same hazardous waste.
    c. Whenever two or more wastes are mixed as the result of a spill, the components will be reviewed to ensure that they are not incompatible with any material with which they might be combined.
    d. Tests shall be made necessary to ensure proper handling and disposal of all material.

The EC will inspect all emergency equipment listed in the Contingency Plan and certify that it is clean and fit for its intended use per the manufacturer's specification. The Equipment Inspection Form will document the inspection.

Prior to the resuming operations in the affected area(s) of the Facility, the EC or designee shall contact the NDEP, Sustainable Materials Management, and the U.S. EPA Regional Director and notify them of the impending resumption of operations.

6.8.4 Personnel Debriefing

The EC, with the assistance of the corporate personnel (Operations, Environmental, Health and Safety) will conduct debriefings of Facility personnel and local authorities to assess the effectiveness of the preparedness and prevention measures, response activities, control, and evacuation procedures related to the incident. Based on the review, the Contingency Plan will be evaluated and updated as needed.

6.9 COORDINATION AGREEMENTS

40 CFR 264.52(c) requires arrangements to be agreed to by the local sheriff and fire departments, hospitals, contractors, and State and local emergency response teams. In fulfillment of the requirements of this part, the Fernley Facility has made agreements that include:

1. The NLCFPD.
2. The LCEM Director.
3. The Nevada Highway Patrol to provide support as needed during an actual emergency.
4. Renown Urgent Care, 1343 West Newlands Drive, Fernley NV to familiarize their personnel with the properties of hazardous materials and wastes handled at the Facility and the types of injuries or illnesses, which could result from fire, explosions, or releases at the Facility.
5. The local police department will provide traffic control and site security as needed during the emergency.

Additionally, arrangements with the Lyon County Sheriff and NLCFPD have been made to familiarize their personnel with:

1. The layout of the Facility

2. Properties and hazards associated with the materials and wastes handled at the Facility.
3. Places where Facility personnel would normally be working.
4. Entrances to the Facility.
5. Evacuation routes.

Each agency has been contacted and sent copies of the Fernley Facility's Contingency Plan. The following arrangements have been requested:

Lyon County Sheriff Department

Lyon County Sheriff Department will receive a copy of the Contingency Plan, and has been asked to provide the following assistance during an emergency:

- Immediate Response
- Crowd Control Assistance
- Communications Support
- Security to the affected area
- Evacuation of Surrounding Areas, if required

North Lyon County Fire Protection District

NLCFPD will receive a copy of the Contingency Plan and will be asked to provide:

- Primary Emergency Authority
- Immediate Response
- Primary Fire Fighting Services
- Rescue and Emergency Transport Services
- Rescue Services

Renown Urgent Care

Renown Urgent Care will receive a copy of the Contingency Plan and will be asked to provide primary medical services.

6.9.1 Provisions for Adequate Aisle Space

The Fernley Facility has been designed with adequate aisle space to allow unobstructed movement of personnel, fire protection equipment and decontamination equipment to any area of the Facility operation in an emergency. This has been accomplished through the provisions of aisles between all tanks and processing equipment. Main access walkways and evacuation routes are indicated on *Figure 6-4*, *Facility Exits and Assemble Areas*.

6.10 EVACUATION PLAN

In the event that an incident poses an actual or serious potential threat to human health or safety, the EC will evacuate the Facility, or, at minimum, the affected area. If the evacuation of the outlying areas is deemed necessary, the EC will advise the local Sheriff and Fire Departments (dial 911 for emergency dispatch) and the NDEP of the potential threat to human health.

Evacuation plan implementation requires prompt and deliberate action. The plan of action described in this section will be strictly adhered to unless, in the opinion of the on-scene EC, minor modifications during an actual emergency would constitute ease of evacuation.
The following policy is applicable in the event of a Facility alarm condition.

1. When a gas or fire alarm sounds, all persons will evacuate directly through the nearest exit and proceed upwind from any smoke or fumes to the front of the Facility.
2. The EC or designee will account for all personnel at the Facility. Everyone will assemble at a location upwind of the Facility based on the direction of the windsocks and/or flags located in the front and back of the building.
3. The command area used for assessment and setting tactical priorities includes the assembly area and front offices. The EC will complete data collection and risk (hazard) characterization.
4. The EC will determine the people who will enter the Facility to respond to the event. The individuals that are responding to the emergency are chosen based on their past training,

experience, skills, and knowledge of the situation. These individuals will assess the situation and gather information. This information may include the following items:

a. Turn over sheets and log books
b. Tank Treatment Records
c. Scrubbers condition and pH readings
d. Signs of visible reactions
e. Detector tube readings of gases suspected
f. Monitor readings and conditions

5. After entry contact, the EC and relay information and current status alarms. The EC will determine the course of action to take.
6. Notify Alarm Company that you are aware of the alarm and are working to correct conditions. The alarm company telephone number is (775) 359-2005.
7. If toxic gases are not present, the area will be rechecked, and the results given to the EC, who may release the areas for re-entry.
8. Before employees return to work, all equipment must be in proper working order and returned to their proper storage area. The EC shall certify on the Equipment Inspection Form that all emergency equipment is clean and fit for its intended use per the manufacturer's specifications.
9. Alarms will be reset, and the Alarm Company notified that the alarm condition has been corrected.
10. Reporting Requirements: In the event of an alarm condition results from a release of substances to the environment, the Nevada Department of Emergency Management and LCEM Director must be notified within one hour of the actual release. Additionally, the NDEP Air, Water, and/or Hazardous Waste divisions must be notified within 24 hours. Finally, if a reportable quantity is released, the U.S. EPA National Response Center must be notified immediately.

The objective of the evacuation plan is to minimize the health hazards to employees or visitors from imminent or potential hazards associated with a spill or fire.

Alarm Signals

The Facility emergency alarms or paging system (air horn if alarms are inactive) will be used to signal partial or total Facility evacuation. Verbal warning by an appointed runner may be used, if necessary. The following describes the emergency alarms' sounds and procedures associated with each.

The Fire Alarm, Buzzer or Bell, requires immediate evacuation to the Assembly area. The EC will provide additional instructions.

The Gas Monitor Alarms, Siren, initiates immediate evacuation to the assembly area. Check wind direction and move up wind at least 100-feet if the assembly area is downwind. Return to work area only after permission is given by the EC.

The Medical Alert Alarm, Intermittent Whistle, indicates immediate evacuation to the assembly area. The EC will check the panel to determine area of alarm activation and proceed to that area with a first aid kit. Evacuated staff will perform role call to account for all personnel.

The High-Level Alarm, Beep Tone, indicates laboratory personnel will notify the Truck Bay operator of the condition and cease pumping to the tank with the high-level alarm.

The EC makes his decision to evacuate based on the incident and threat to human health or the environment. In the event of a total Facility evacuation and the site personnel are unable to respond to the emergency, the Lyon County Sheriff and NLCFPD will be immediately notified.

Decision to Evacuate

The EC will decide when to evacuate. This decision will be based upon his experience in the field and those criteria identified in the Contingency Plan.

All personnel will immediately evacuate whenever a fire or gas alarm sounds. They will not return to their workplace until cleared by the EC. Evacuation Procedures are as follows:

1. The on-scene EC will direct the evacuation.
2. In each occurrence of an evacuation emergency, it is the responsibility of the section leads to take charge of their personnel and property in their department.
3. Supervisors who are away from their base work area when an emergency occurs are urged to return to it as quickly as possible to take charge.
4. Operators must move their vehicles, so they do not obstruct aisles. This will allow emergency vehicles to pass.
5. While the building is evacuated, operators should shut down their operations, if possible.
6. All employees, visitors and contractors will leave the Facility in an orderly manner, via exits shown in Facility Evacuation Plan in *Figure 6-4*, *Facility Exits and Assemble Areas*.
7. Immediately end all telephone conversations.
8. Do not attempt to obtain personal belongings, unless otherwise authorized.
9. Do not run or make unnecessary noise.
10. During the evacuation, the EC and appointed aids will ensure that all unauthorized personnel be prevented from entering the evacuated area.
11. When evacuating the building, all employees will proceed to the assembly area, as shown in the Evacuation Plan (see *Figure 6-4*, *Facility Exits and Assemble Areas*) and gather with their department supervisor. They will remain in the assembly area as far from the building as possible so as not to interfere with emergency personnel and equipment. It is the responsibility of department supervisors (or designees) to assemble their employees in an expeditious manner and report any unaccounted personnel to the EC.
12. The EC will account for all personnel and visitors to ensure that no one has been left behind. The EC will ensure that the visitor log is taken to the assembly area and reviewed.
13. The decision to re-enter the Facility will be made by the EC. When appropriate, the EC will determine the proper protective equipment for the employees. The factors for determination of the PPE include the potential exposures and hazards from both chemical and physical materials. For each situation, the equipment and clothing will be selected to provide an adequate level of protection.
14. The EC will obtain rescue services for injured people where required.

If the emergency situation requires the evacuation of areas surrounding the Facility, the EC will immediately inform the Lyon County Sheriff and NLCFPD (Dial 911), the Nevada Department of Emergency Management, the NDEP, and the National Response Center of such a condition. This decision will be based upon:

a. The nature and toxicity of the material involved in the emergency.
b. Prevailing wind direction.
c. Migration potential outside the Facility.
d. Possibility of an explosion.
e. Possibility of a pending release of toxic vapors, gases, or mists.

Evacuation Signal and Notification

The signal to evacuate surrounding areas will be given directly to the Lyon County Sheriff and NLCFPD. Under direction of the Sheriff and Fire Departments calls will be placed to facilities immediately surrounding the Fernley Facility, advising them of the nature of the situation and the advisability to evacuate. In all cases of surrounding area evacuation, all personnel so notified will be directed as to the best roads to use and direction(s) to proceed along, as decided by the EC in conjunction with the Lyon County Sheriff and the NLCFPD.

Whenever the EC determines that evacuation of local areas may be advisable, they must immediately notify the NLCFPD (Dial 911) and the Lyon County Sheriff Department. They must be available to help appropriate officials decide whether local areas should be evacuated. In addition, the following agencies must be notified:

1. The EC must immediately notify the Nevada Department of Emergency Management and the NDEP using the emergency spill response procedures and provide that information.
2. The EC must also immediately notify the National Response Center. The report must include:
    a. Name and telephone number of reporter;
    b. Name and address of Facility;

c. Time and Type of incident (e.g., release, fire);

d. Name and quantity of material(s) involved;

e. The extent of any injuries;

f. The possible hazards to human health, or the environment, outside the Facility.

6.11 INCIDENT REPORTS

The Comprehensive Environmental Response, Compensation, and Liability Act's Superfund Amendments and Reauthorization Act of 1986, Title III, Section 304 requires immediate local notification when an accidental or unplanned release of a hazardous substance occurs. In addition to local emergency responders, notification will also be provided immediately to the following agencies.

- Lyon County Emergency Management
- Nevada Department of Emergency Management
- Nevada Division of Environmental Protection
- EPA National Response Center

The information required includes: identification of the substance; location of the release; time the release started; duration; estimate of the quantity of the substance released into the environment; medium of the environment receiving the release (soil, water, air, pavement, etc.); known or anticipated acute or chronic health risks associated with the release; when appropriate, advice regarding medical attention for treatment of exposed individuals; precautions to be taken, including evacuation and other considerations; and name and telephone number of contact for further information.

6.12 AMENDMENTS TO THE CONTINGENCY PLAN

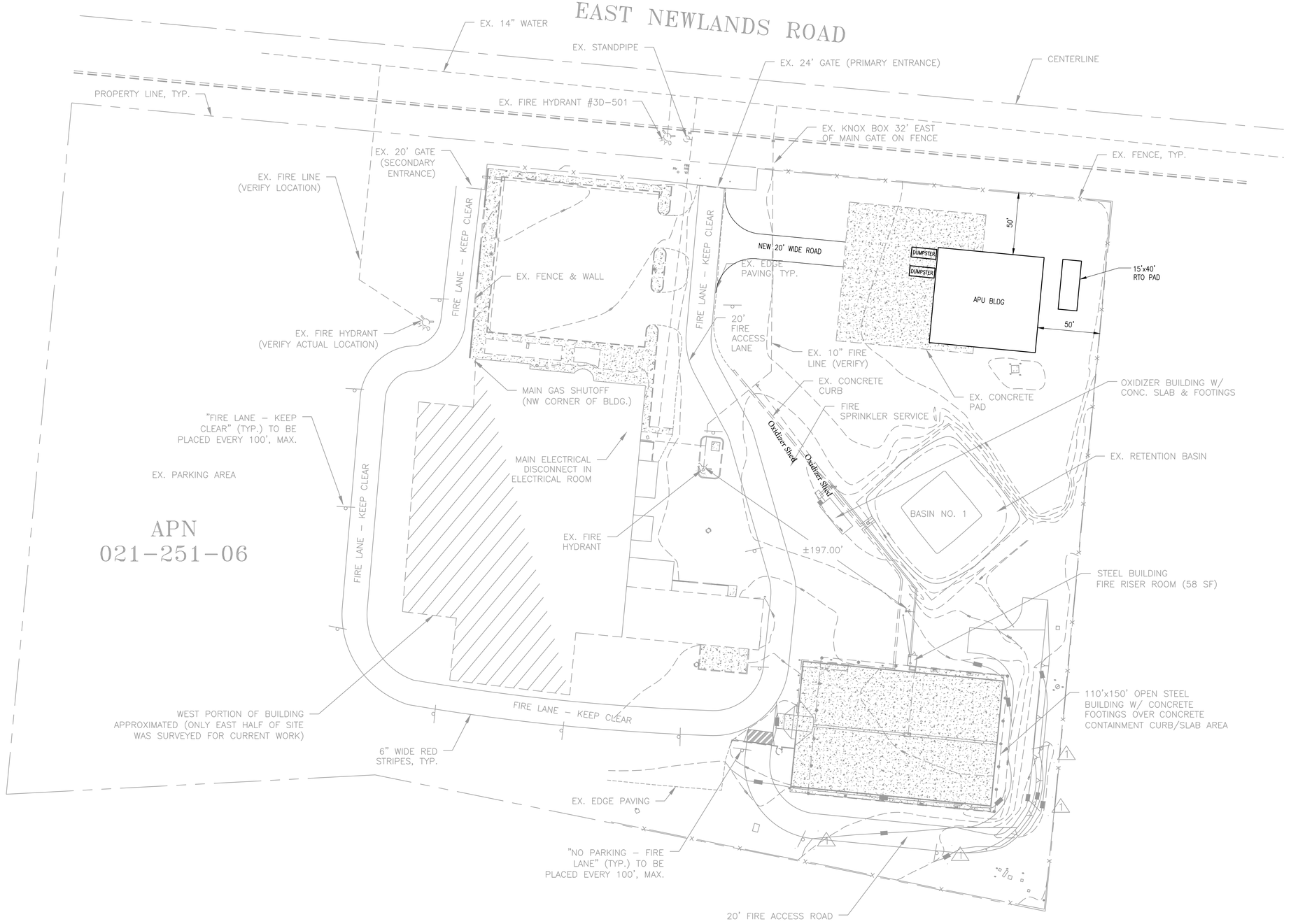
Periodically, the Fernley Facility's Contingency Plan and Emergency Procedures Plan will be reviewed and updated as necessary. The plan will be immediately amended whenever:

1. The plan fails in an emergency.

2. The Facility makes changes in its design, construction, operation, maintenance, or security system or other circumstances which would increase the potential for fires, explosions, or releases of hazardous waste constituents, or which may affect emergency response procedures.
3. There are changes in the amount or type of emergency equipment.
4. There are changes in Emergency Coordinators.
5. The Facility permit is revised.

If changes are made in the Contingency Plan and Emergency Procedures Plan, updated copies showing these changes will be distributed to local authorities and the NDEP. If changes are limited to the Emergency Coordinators, provided in *Table 7-1*, the plan will be redistributed to the following agencies:

- Lyon County Sheriff
- North Lyon County Fire Protection District (NLCFPD)
- Lyon County Emergency Management (LCEM) Director
- Renown Urgent Care
- Nevada Division of Environmental Protection (NDEP)



GENERAL NOTES

1. NOT USED.

KEYED NOTES

(1) NOT USED.

SITE PLAN

SCALE: 1" = 40'

0 20' 40' 80'
1"=40'

ISSUED FOR REVIEW

Reference Drawings		Revisions					Revisions				
Drawing No	Title	Rev	Date	By	App	Description	Rev	Date	By	App	Description
		A	08/09/21	MEJ	BWW	ISSUED FOR REVIEW					
		B	11/03/21	MEJ	BWW	ISSUED FOR REVIEW					

CLEAN EARTH
2095 E. NEWLANDS ROAD
FERNLEY, NV 89408

SCALE:	AS NOTED
DRAWN:	MEJ
ENGINEER:	BWW
CHECKED:	BWW
PROJ MGR:	BWW
APPROVED:	BWW
DATE:	08/09/21

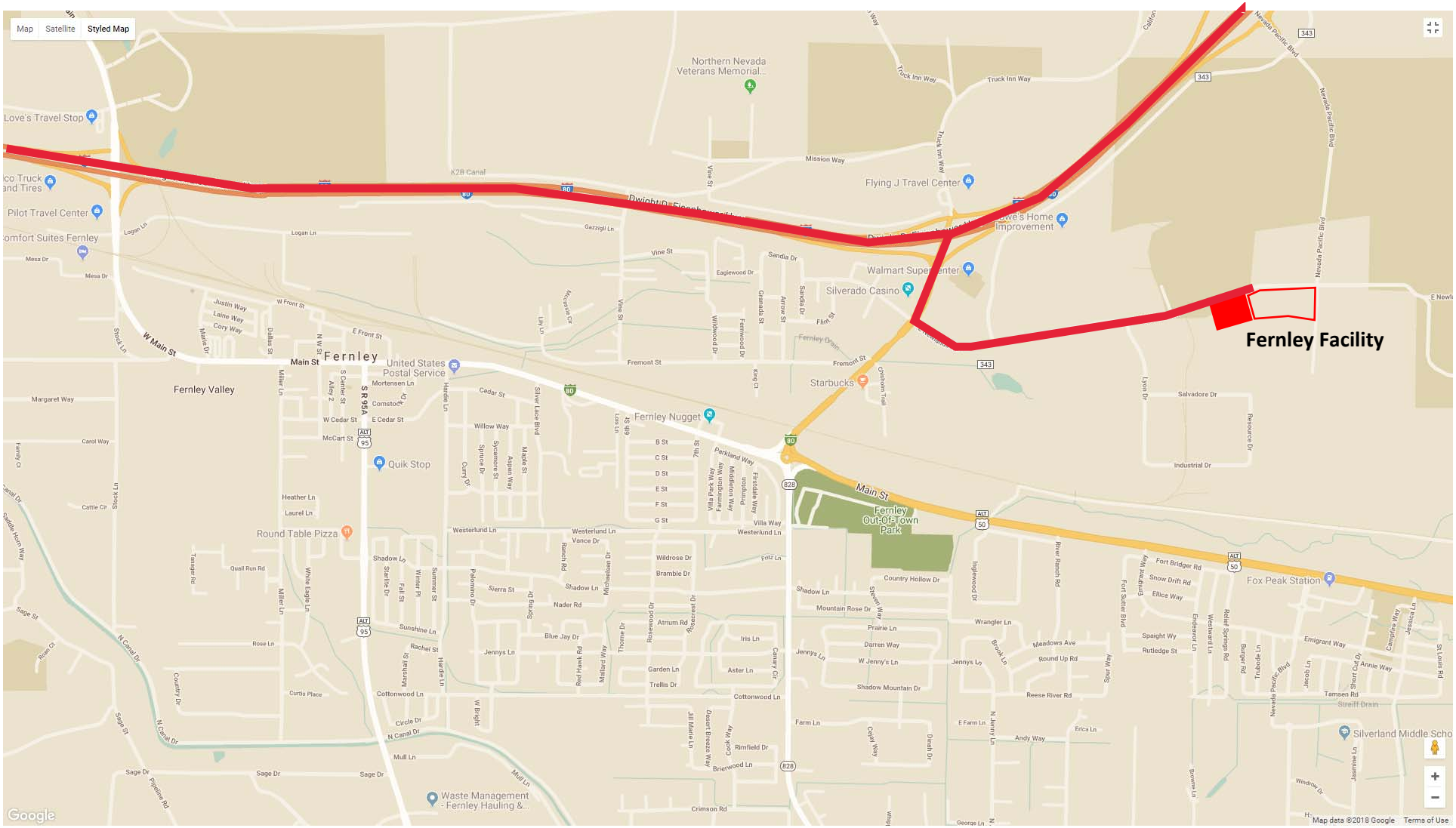
HARRIS GROUP
harrisgroup.com

CIVIL
SITE PLAN

AEROSOL CAN RECYCLING BUILDING

PROJECT NO: 31243
SHEET NO: Figure 2-2
REV: B

FILE LOCATION: C:\Users\mjames\Desktop\Temp\Clean Earth\31243 - Aerosol Can Recycling\Drawings\Xref\Gen\GA-N-Base.dwg
BY: James, Eric
PLOT DATE: 11/3/21

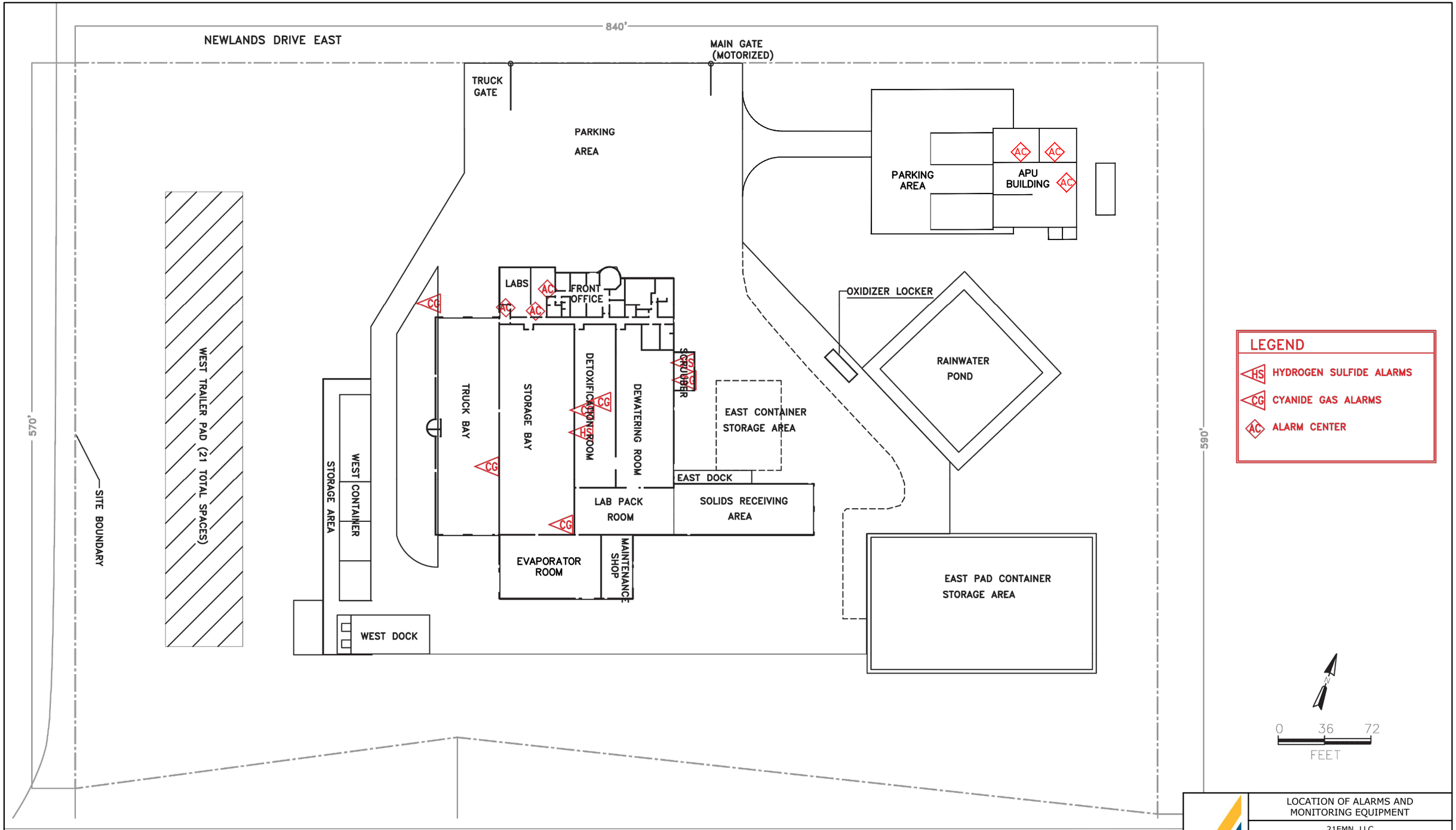


CleanEarth

Figure 3-1: Facility Access Routes

Access Roads

21EMN, LLC
2185 Newlands Dive East
Fernley, NV 89408



NOTE:
FACILITY MAPPING BASED ON
STERICYCLE FIGURES, 05/25/16.
APU MAPPING BASED ON 21EMN
FIGURE, 08/09/21

ALL4

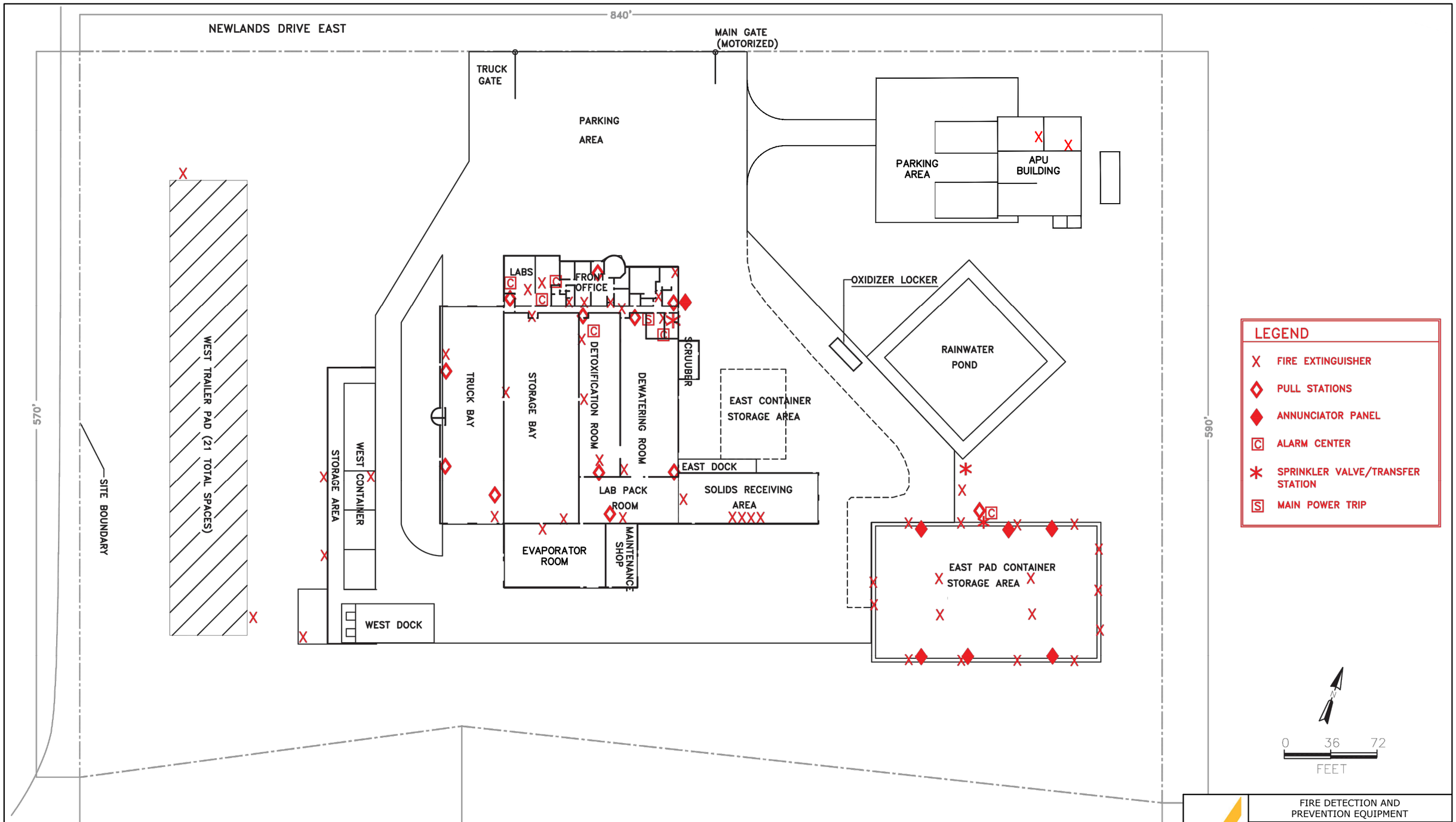
LOCATION OF ALARMS AND
MONITORING EQUIPMENT

21EMN, LLC
2095 NEWLANDS DRIVE EAST
FERNLEY, NV 89408

SCALE:	AS SHOWN
DATE:	5/25/23
PREPARED BY:	KAF
CHECKED BY:	PNB

JOB NO. 01049-0011.00

FIGURE 7-1



NOTE:
FACILITY MAPPING BASED ON
STERICYCLE FIGURES, 05/25/16.
APU MAPPING BASED ON 21EMN
FIGURE, 08/09/21

ALL4

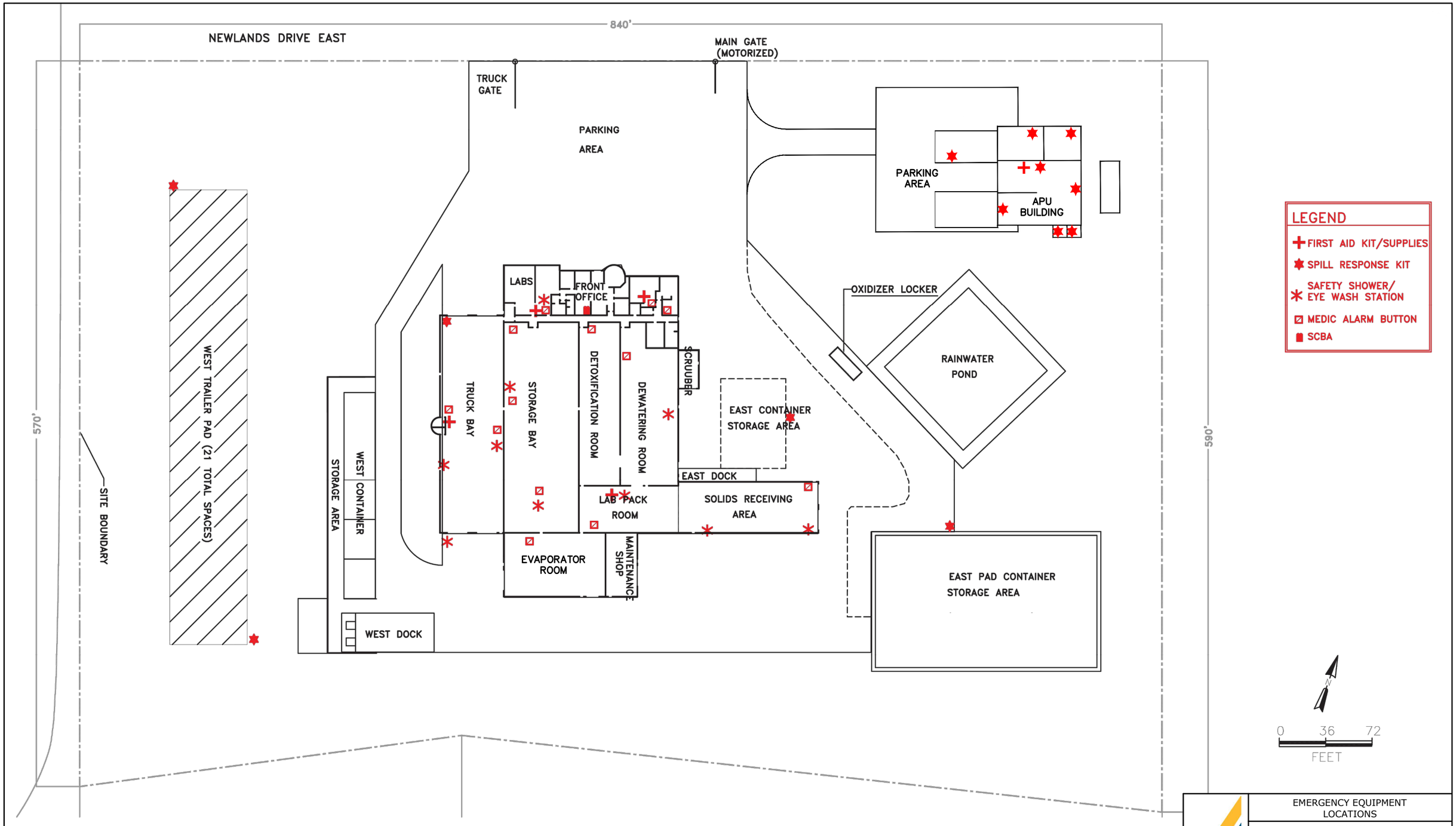
FIRE DETECTION AND
PREVENTION EQUIPMENT

21EMN, LLC
2095 NEWLANDS DRIVE EAST
FERNLEY, NV 89408

SCALE:	AS SHOWN
DATE:	5/25/23
PREPARED BY:	KAF
CHECKED BY:	PNB

JOB NO. 01049-0011.00

FIGURE G4-2



NOTE:
FACILITY MAPPING BASED ON
STERICYCLE FIGURES, 05/25/16.
APU MAPPING BASED ON 21EMN
FIGURE, 08/09/21

ALL4

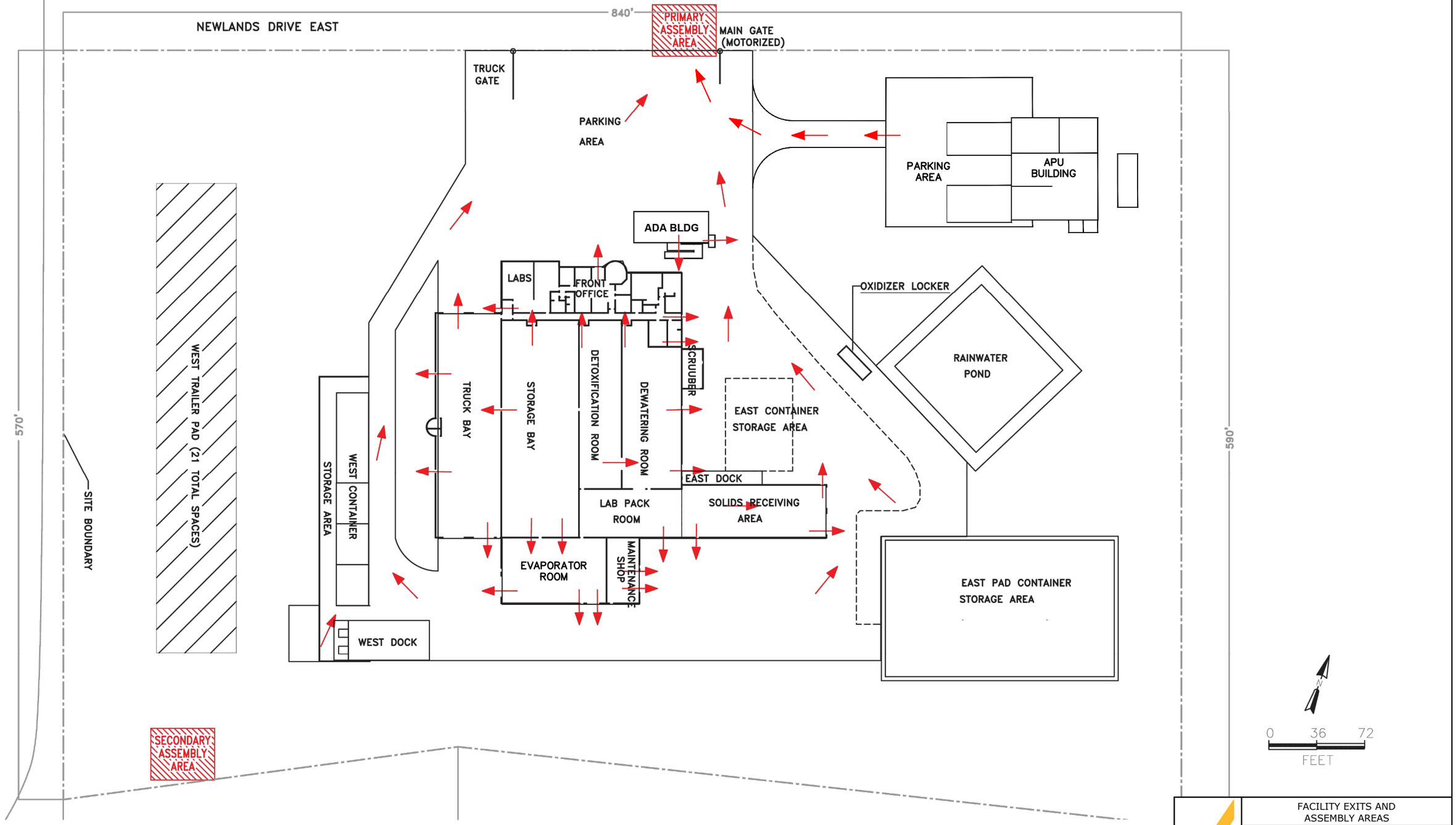
EMERGENCY EQUIPMENT
LOCATIONS

21EMN, LLC
2095 NEWLANDS DRIVE EAST
FERNLEY, NV 89408

SCALE:	AS SHOWN
DATE:	5/25/23
PREPARED BY:	KAF
CHECKED BY:	PNB

JOB NO. 01049-0011.00

FIGURE 7-2



NOTE:
FACILITY MAPPING BASED ON STERICYCLE FIGURES, 04/27/18.
APU MAPPING BASED ON 21EMN FIGURE, 08/09/21

ALL4

FACILITY EXITS AND ASSEMBLY AREAS

21EMN, LLC
2095 NEWLANDS DRIVE EAST
FERNLEY, NV 89408

SCALE:	AS SHOWN
DATE:	5/25/23
PREPARED BY:	KAF
CHECKED BY:	PNB

JOB NO. 01049-0011.00

FIGURE 7-3

APPENDIX E
NSHPO HISTORIC PLACES

Nevada's Historic Places

Welcome to the Nevada Historic Resources Map. Below you will find an interactive web tool that allows you to find resources in Nevada that have been recognized for their importance to the past. Resources on the map have been listed in the National Register of Historic Places or the Nevada State Register of Historic Places. Preserving these important places requires the knowledge and investment of Nevada citizens like you! Please take your time exploring and learning about why these important places matter to the past, present, and future of Nevada.

If you are interested in nominating a property to the National or State Registers, please visit the webpage for each below.

Nevada State Register of Historic Places
National Register of Historic Places

For a complete list of all of Nevada's State and National Register designations, download these documents:

Places in Nevada listed in the National Register of Historic Places

Places in Nevada listed in the Nevada State Register of Historic Places

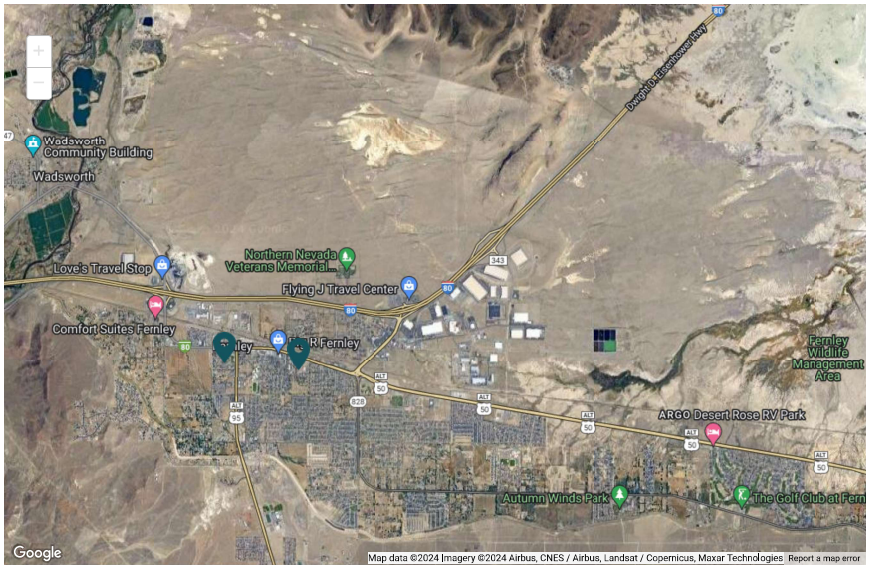
Looking for a copy of a publicly available nomination form? The SHPO has made these forms conveniently available for download in the map below. If you would prefer to request this information directly from our office, please follow the Public Records request instructions found *here*.

How to Use the Map: Every listing has a pinpoint shape. Click on the pinpoint and this will reveal some basic information about a site, including its name, the date of its historic designation, and a scan of the documentation for the resource. Not sure what you're looking for? You can also filter by county or city to check out what's historic in your neighborhood or where you're planning to visit soon!

Find an Historic Place

Lyon County ×

Fernley ×



Showing State and National Registers in "Lyon County" and "Fernley"

Fernley Community Church

Alternative Name: Fernley Community Church
NRIS #: 3000414
State Register #: 30121

City: Fernley
County: Lyon County
Date of Listing (NRHP): 05/16/2003
Date of Listing (SRHP): 03/12/2003
Download Nomination

Fernley and Lassen Railway Depot--Fernley, Nevada

Alternative Name: Fernley and Lassen Railway Depot--Fernley, Nevada
NRIS #: 5000513
State Register #: 111
City: Fernley
County: Lyon County
Date of Listing (NRHP): 04/05/2005
Date of Listing (SRHP): 09/18/2000
Download Nomination

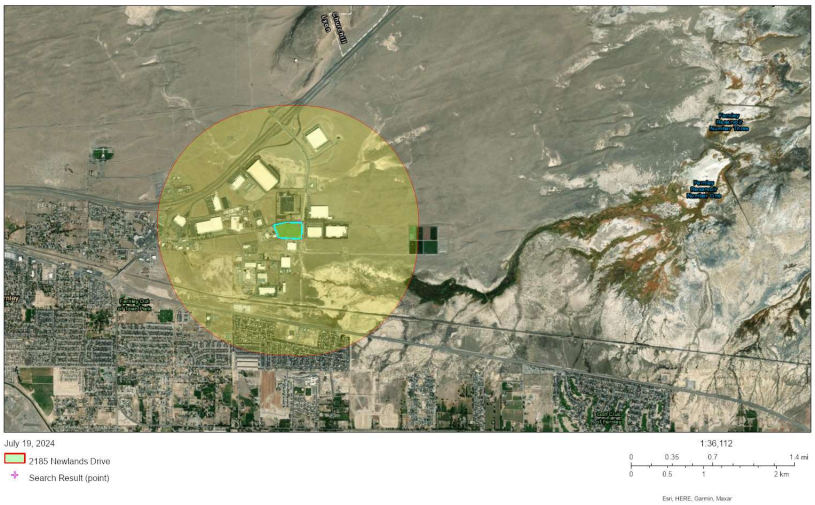
APPENDIX F
EJSCREEN REPORT

EJScreen Community Report

This report provides environmental and socioeconomic information for user-defined areas, and combines that data into environmental justice and supplemental indexes.

Fernley, NV

1 mile Ring around the Area
Population: 1,260
Area in square miles: 3.87



LANGUAGES SPOKEN AT HOME

LANGUAGE	PERCENT
No language data available.	

COMMUNITY INFORMATION

- Low income: 25 percent
- People of color: 23 percent
- Less than high school education: 13 percent
- Limited English households: 0 percent
- Unemployment: 5 percent
- Persons with disabilities: 14 percent
- Male: 54 percent
- Female: 46 percent
- 82 years — Average life expectancy
- $35,384 — Per capita income
- Number of households: 499
- Owner occupied: 64 percent

BREAKDOWN BY RACE

- White: 77%
- Black: 0%
- American Indian: 0%
- Asian: 1%
- Hawaiian/Pacific Islander: 0%
- Other race: 0%
- Two or more races: 1%
- Hispanic: 20%

BREAKDOWN BY AGE

From Ages 1 to 4	6%
From Ages 1 to 18	20%
From Ages 18 and up	80%
From Ages 65 and up	12%

LIMITED ENGLISH SPEAKING BREAKDOWN

Speak Spanish	91%
Speak Other Indo-European Languages	9%
Speak Asian-Pacific Island Languages	0%
Speak Other Languages	0%

Notes: Numbers may not sum to totals due to rounding. Hispanic population can be of any race.
Source: U.S. Census Bureau, American Community Survey (ACS) 2018-2022. Life expectancy data comes from the Centers for Disease Control.

Report for 1 mile Ring around the Area

Report produced July 19, 2024 using EJScreen Version 2.3

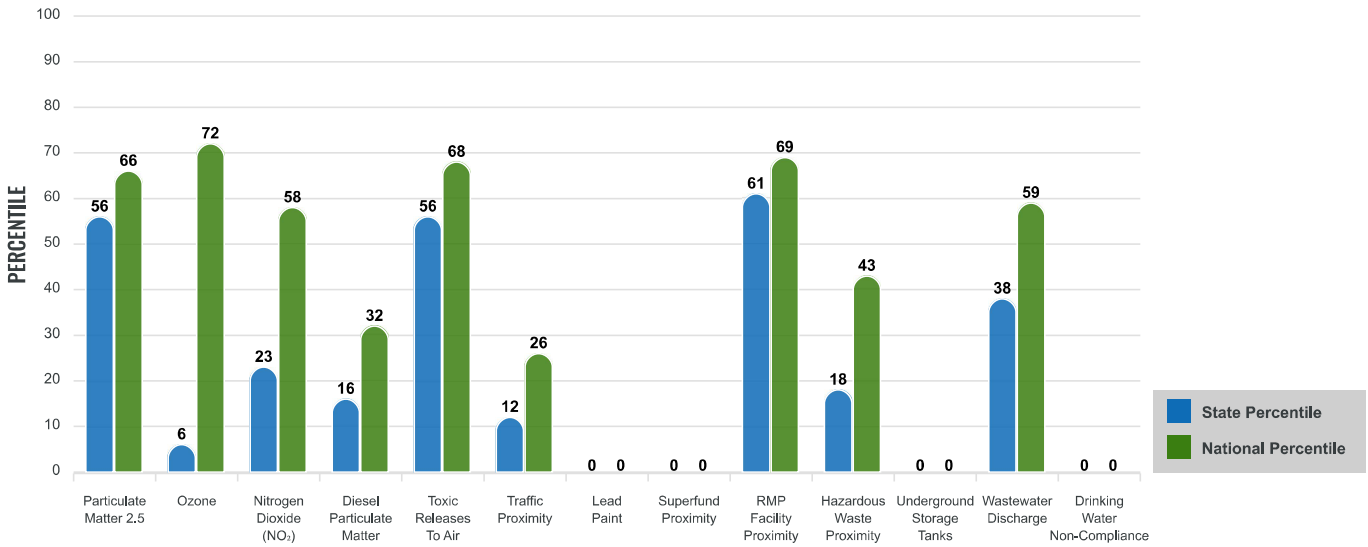
Environmental Justice & Supplemental Indexes

The environmental justice and supplemental indexes are a combination of environmental and socioeconomic information. There are thirteen EJ indexes and supplemental indexes in EJScreen reflecting the 13 environmental indicators. The indexes for a selected area are compared to those for all other locations in the state or nation. For more information and calculation details on the EJ and supplemental indexes, please visit the EJScreen website.

EJ INDEXES

The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.

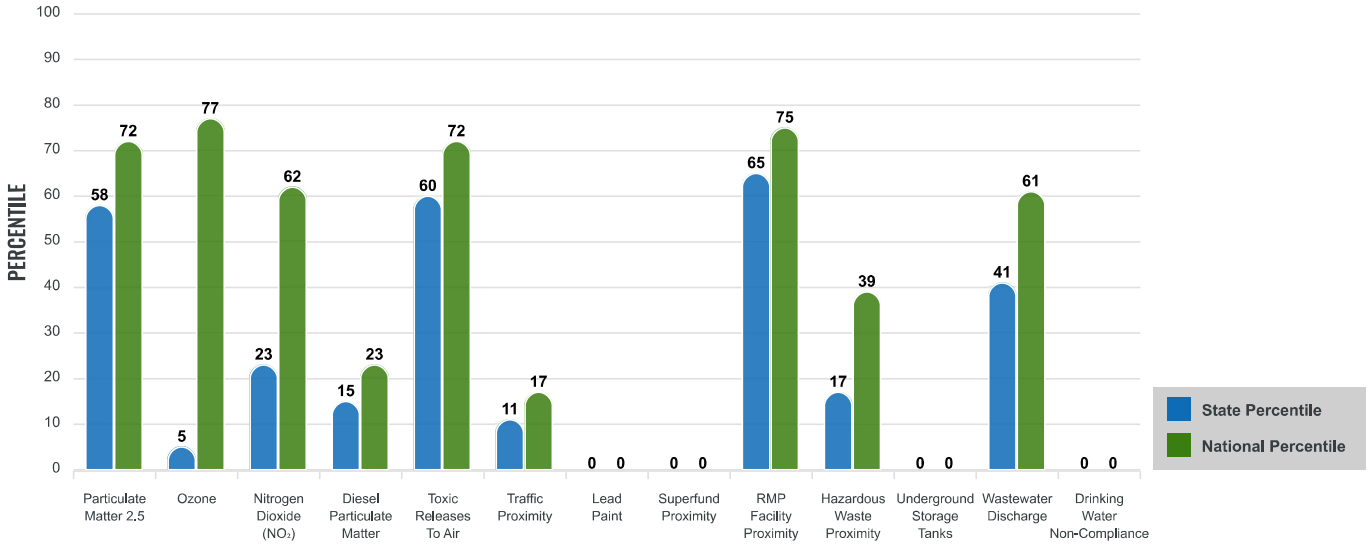
EJ INDEXES FOR THE SELECTED LOCATION



SUPPLEMENTAL INDEXES

The supplemental indexes offer a different perspective on community-level vulnerability. They combine data on percent low-income, percent linguistically isolated, percent less than high school education, percent unemployed, and low life expectancy with a single environmental indicator.

SUPPLEMENTAL INDEXES FOR THE SELECTED LOCATION



Report for 1 mile Ring around the Area

Report produced July 19, 2024 using EJScreen Version 2.3

EJScreen Environmental and Socioeconomic Indicators Data

SELECTED VARIABLES	VALUE	STATE AVERAGE	PERCENTILE IN STATE	USA AVERAGE	PERCENTILE IN USA
ENVIRONMENTAL BURDEN INDICATORS					
Particulate Matter 2.5 ($\mu g/m^3$)	9.55	8.15	83	8.45	83
Ozone (ppb)	48.4	53.8	5	41	88
Nitrogen Dioxide (NO_2) (ppbv)	9.1	10	23	7.8	66
Diesel Particulate Matter ($\mu g/m^3$)	0.0897	0.388	15	0.191	24
Toxic Releases to Air (toxicity-weighted concentration)	3,600	1,400	85	4,600	82
Traffic Proximity (daily traffic count/distance to road)	120,000	1,800,000	9	1,700,000	19
Lead Paint (% Pre-1960 Housing)	0.00055	0.063	0	0.3	0
Superfund Proximity (site count/km distance)	0	0.11	0	0.39	0
RMP Facility Proximity (facility count/km distance)	1.7	0.4	96	0.57	91
Hazardous Waste Proximity (facility count/km distance)	0.71	3.3	17	3.5	39
Underground Storage Tanks (count/km^2)	0.0031	3.2	22	3.6	27
Wastewater Discharge (toxicity-weighted concentration/m distance)	330	30000	50	700000	65
Drinking Water Non-Compliance (points)	0	0.39	0	2.2	0
SOCIOECONOMIC INDICATORS					
Demographic Index USA	0.96	N/A	N/A	1.34	40
Supplemental Demographic Index USA	1.33	N/A	N/A	1.64	36
Demographic Index State	1.07	1.81	22	N/A	N/A
Supplemental Demographic Index State	0.93	1.44	26	N/A	N/A
People of Color	23%	51%	15	40%	40
Low Income	25%	32%	44	30%	48
Unemployment Rate	5%	7%	48	6%	63
Limited English Speaking Households	0%	6%	0	5%	0
Less Than High School Education	13%	14%	57	11%	67
Under Age 5	6%	5%	58	5%	58
Over Age 64	12%	18%	41	18%	33

*Diesel particulate matter index is from the EPA's Air Toxics Data Update, which is the Agency's ongoing, comprehensive evaluation of air toxics in the United States. This effort aims to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that the air toxics data presented here provide broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. More information on the Air Toxics Data Update can be found at: https://www.epa.gov/haps/air-toxics-data-update.

Sites reporting to EPA within defined area:

Superfund	0
Hazardous Waste, Treatment, Storage, and Disposal Facilities	1
Water Dischargers	20
Air Pollution	5
Brownfields	6
Toxic Release Inventory	11

Other community features within defined area:

Schools	0
Hospitals	0
Places of Worship	0

Other environmental data:

Air Non-attainment	No
Impaired Waters	No

Selected location contains American Indian Reservation Lands*	Yes
Selected location contains a "Justice40 (CEJST)" disadvantaged community	Yes
Selected location contains an EPA IRA disadvantaged community	Yes

Report for 1 mile Ring around the Area

Report produced July 19, 2024 using EJScreen Version 2.3

EJScreen Environmental and Socioeconomic Indicators Data

HEALTH INDICATORS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Low Life Expectancy	16%	20%	9	20%	18
Heart Disease	5.2	5.7	42	5.8	40
Asthma	10	10.1	49	10.3	43
Cancer	6.5	6	64	6.4	48
Persons with Disabilities	12.6%	13.7%	47	13.7%	49

CLIMATE INDICATORS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Flood Risk	1%	6%	41	12%	18
Wildfire Risk	93%	33%	76	14%	92

CRITICAL SERVICE GAPS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Broadband Internet	16%	12%	71	13%	69
Lack of Health Insurance	11%	12%	52	9%	72
Housing Burden	No	N/A	N/A	N/A	N/A
Transportation Access Burden	Yes	N/A	N/A	N/A	N/A
Food Desert	No	N/A	N/A	N/A	N/A

Report for 1 mile Ring around the Area

Report produced July 19, 2024 using EJScreen Version 2.3

APPENDIX G
FISH AND WILDLIFE SPECIES LIST

United States Department of the Interior

FISH AND WILDLIFE SERVICE
Reno Fish And Wildlife Office
1340 Financial Boulevard, Suite 234
Reno, NV 89502-7147
Phone: (775) 861-6300 Fax: (775) 861-6301

In Reply Refer To: 07/17/2024 21:02:44 UTC
Project Code: 2024-0117828
Project Name: East Newlands Drive

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed, and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through IPaC by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological

evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at: https://www.fws.gov/sites/default/files/documents/endangered-species-consultation-handbook.pdf

Migratory Birds: In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts, see Migratory Bird Permit | What We Do | U.S. Fish & Wildlife Service (fws.gov).

The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a federal nexus) or a Bird/Eagle Conservation Plan (when there is no federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures, see https://www.fws.gov/library/collections/threats-birds.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat. For information regarding the implementation of Executive Order 13186, please visit https://www.fws.gov/partner/council-conservation-migratory-birds.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Code in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List

- USFWS National Wildlife Refuges and Fish Hatcheries
- Bald & Golden Eagles
- Migratory Birds
- Wetlands

OFFICIAL SPECIES LIST

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Reno Fish And Wildlife Office
1340 Financial Boulevard, Suite 234
Reno, NV 89502-7147
(775) 861-6300

PROJECT SUMMARY

Project Code: 2024-0117828
Project Name: East Newlands Drive
Project Type: Mixed-Use Construction
Project Description: East Newlands Drive
Project Location:

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@39.608829150000005,-119.199278375,14z



Counties: Lyon County, Nevada

ENDANGERED SPECIES ACT SPECIES

There is a total of 3 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries[1], as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

---

1. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

BIRDS

NAME	STATUS
Yellow-billed Cuckoo *Coccyzus americanus* Population: Western U.S. DPS There is **final** critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/3911	Threatened

REPTILES

NAME	STATUS
Northwestern Pond Turtle *Actinemys marmorata* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/1111	Proposed Threatened

INSECTS

NAME	STATUS
Monarch Butterfly *Danaus plexippus* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9743	Candidate

CRITICAL HABITATS

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

USFWS NATIONAL WILDLIFE REFUGE LANDS AND FISH HATCHERIES

Any activity proposed on lands managed by the National Wildlife Refuge system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS OR FISH HATCHERIES WITHIN YOUR PROJECT AREA.

BALD & GOLDEN EAGLES

Bald and golden eagles are protected under the Bald and Golden Eagle Protection Act[1] and the Migratory Bird Treaty Act[2].

Any person or organization who plans or conducts activities that may result in impacts to bald or golden eagles, or their habitats[3], should follow appropriate regulations and consider

implementing appropriate conservation measures, as described in the links below. Specifically, please review the "Supplemental Information on Migratory Birds and Eagles".

---

1. The Bald and Golden Eagle Protection Act of 1940.
2. The Migratory Birds Treaty Act of 1918.
3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

There are likely bald eagles present in your project area. For additional information on bald eagles, refer to Bald Eagle Nesting and Sensitivity to Human Activity

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, see the PROBABILITY OF PRESENCE SUMMARY below to see when these birds are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON
Bald Eagle *Haliaeetus leucocephalus* This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1626	Breeds Dec 1 to Aug 31

PROBABILITY OF PRESENCE SUMMARY

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read "Supplemental Information on Migratory Birds and Eagles", specifically the FAQ section titled "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

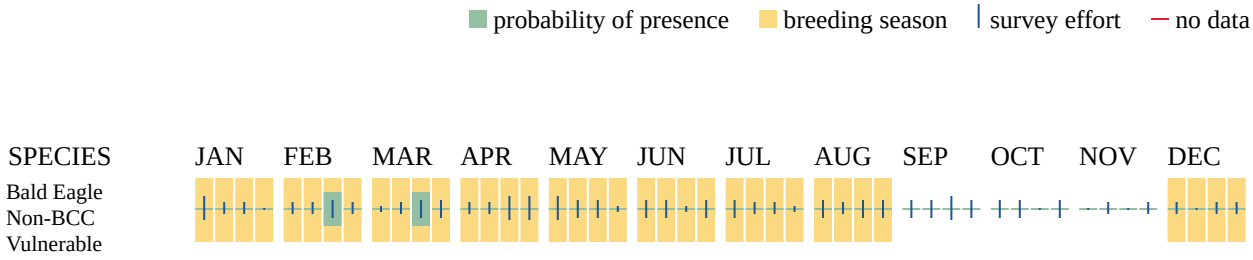
Probability of Presence (▪)

Green bars; the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during that week of the year.

Breeding Season (▪)
Yellow bars; liberal estimate of the timeframe inside which the bird breeds across its entire range.

Survey Effort (|)
Vertical black lines; the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps.

No Data (–)
A week is marked as having no data if there were no survey events for that week.



Additional information can be found using the following links:

- Eagle Management https://www.fws.gov/program/eagle-management
- Measures for avoiding and minimizing impacts to birds https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds
- Nationwide conservation measures for birds https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf
- Supplemental Information for Migratory Birds and Eagles in IPaC https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action

MIGRATORY BIRDS

Certain birds are protected under the Migratory Bird Treaty Act[1] and the Bald and Golden Eagle Protection Act[2].

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats[3] should follow appropriate regulations and consider implementing appropriate conservation measures, as described in the links below. Specifically, please review the "Supplemental Information on Migratory Birds and Eagles".

---

1. The Migratory Birds Treaty Act of 1918.
2. The Bald and Golden Eagle Protection Act of 1940.
3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, see the PROBABILITY OF PRESENCE SUMMARY below to see when these birds are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON
American Avocet *Recurvirostra americana* This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/11927	Breeds Apr 21 to Aug 10
American White Pelican *pelecanus erythrorhynchos* This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/6886	Breeds Apr 1 to Aug 31
Bald Eagle *Haliaeetus leucocephalus* This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1626	Breeds Dec 1 to Aug 31
California Gull *Larus californicus* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/10955	Breeds Mar 1 to Jul 31
Calliope Hummingbird *Selasphorus calliope* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9526	Breeds May 1 to Aug 15
Cassin's Finch *Haemorhous cassinii* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9462	Breeds May 15 to Jul 15
Evening Grosbeak *Coccothraustes vespertinus* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9465	Breeds May 15 to Aug 10
Lewis's Woodpecker *Melanerpes lewis* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9408	Breeds Apr 20 to Sep 30
Marbled Godwit *Limosa fedoa* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9481	Breeds elsewhere
Northern Harrier *Circus hudsonius* This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/8350	Breeds Apr 1 to Sep 15

NAME	BREEDING SEASON
Olive-sided Flycatcher *Contopus cooperi* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/3914	Breeds May 20 to Aug 31
Rufous Hummingbird *Selasphorus rufus* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/8002	Breeds Apr 15 to Jul 15
Sage Thrasher *Oreoscoptes montanus* This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/9433	Breeds Apr 15 to Aug 10
Willet *Tringa semipalmata* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/10669	Breeds Apr 20 to Aug 5

PROBABILITY OF PRESENCE SUMMARY

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read "Supplemental Information on Migratory Birds and Eagles", specifically the FAQ section titled "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Green bars; the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during that week of the year.

Breeding Season (■)
Yellow bars; liberal estimate of the timeframe inside which the bird breeds across its entire range.

Survey Effort (|)
Vertical black lines; the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps.

No Data (–)
A week is marked as having no data if there were no survey events for that week.

■ probability of presence ■ breeding season | survey effort – no data


SPECIES
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
OCT
NOV
DEC
American Avocet
BCC - BCR
American White Pelican
BCC - BCR
Bald Eagle
Non-BCC
Vulnerable
California Gull
BCC Rangewide
(CON)
Calliope Hummingbird
BCC Rangewide
(CON)
Cassin's Finch
BCC Rangewide
(CON)
Evening Grosbeak
BCC Rangewide
(CON)
Lewis's Woodpecker
BCC Rangewide
(CON)
Marbled Godwit
BCC Rangewide
(CON)
Northern Harrier
BCC - BCR
Olive-sided Flycatcher
BCC Rangewide
(CON)
Rufous Hummingbird
BCC Rangewide
(CON)
SPECIES
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
OCT
NOV
DEC
Sage Thrasher
BCC - BCR
Willet
BCC Rangewide
(CON)

Additional information can be found using the following links:

- Eagle Management https://www.fws.gov/program/eagle-management
- Measures for avoiding and minimizing impacts to birds https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds
- Nationwide conservation measures for birds https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf
- Supplemental Information for Migratory Birds and Eagles in IPaC https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action

WETLANDS

Impacts to NWI wetlands and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local U.S. Army Corps of Engineers District.

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

RIVERINE

- R4SBAx
- R4SBJ
- R4SBA
- R4SBJx

FRESHWATER EMERGENT WETLAND

- PEM1C

FRESHWATER FORESTED/SHRUB WETLAND

- PSS1A
- PSS1C

FRESHWATER POND

- PUSJx
- PUSJ

IPAC USER CONTACT INFORMATION

Agency: ALL4 LLC
Name: Nick Konefal
Address: 1405 Mercer Road
City: Lexington
State: KY
Zip: 40511
Email nkonefal@all4inc.com
Phone: 8592318934

APPENDIX D – DENIAL OF CERTIFICATE OF DESIGNATION APPLICATION

March 7, 2025

T.J. McCaustland
Manager, Permitting Compliance
Clean Earth, Inc
2095 E Newlands Dr
Fernley, NV 89408

SENT VIA EMAIL AND CERTIFIED MAIL

RE: Denial of Certificate of Designation Application
21st Century Environmental Management of Nevada, LLC (21EMN)
EPA ID# NVD980895338

Dear T.J. McCaustland,

The Nevada Division of Environmental Protection – Bureau of Sustainable Materials Management (NDEP-BSMM) received by email the Certificate of Designation Application on September 23, 2024. The Certificate of Designation application fee was received on October 8, 2024.

After review of the Certificate of Designation application, the proposed facility location at 2185 East Newlands Drive, Fernley, Nevada does not meet the siting requirements per NAC 444.8456. The following criteria were not met because the facility is proposed to be constructed within one mile of:

NAC Reference	Requirement	Reason for Unsatisfied Requirement
NAC 444.8456.1(a)(2)	An area zoned solely for residential use.	A residential neighborhood is located approximately 0.7-miles south of the Site.
NAC 444.8456.1(a)(4)	A wildlife management area.	The Fernley Wildlife Management Area which is located approximately 0.5-miles southeast of the Site.
NAC 444.8456.1(a)(6)	An area where surface water or wetlands occur.	Freshwater forested/shrub wetlands are located approximately 0.5-miles southeast of the Site. Two freshwater ponds are located approximately 0.8- miles west and northeast of the Site.
NAC 444.8456.1(c)	A 100-year floodplain.	A Special Flood Hazard Areas, Zone A is located approximately 0.2-miles south of the Site.
NAC 444.8456.1(d)	An area where the water table seasonally rises to within 150 feet of the surface of the ground.	Water levels at the Site range approximately 29 to 37 feet below ground surface.

The NDEP-BSMM denies the application of the Certificate of Designation at the proposed 21EMN facility.

Per NAC 444.847 through NAC 444.8482, any person seeking a variance from the provisions of NAC 444.842 to 444.8482, inclusive, must submit an application for the variance to the Secretary of the Commission. The application must contain all requirements listed in NAC 444.8472.

Additional information regarding the State Environmental Commission can be found on the following website: https://sec.nv.gov/

If you have any questions, please contact Jocelyn Moran at 775-687-9477 or jmoran@ndep.nv.gov.

Sincerely,

Jonathan Zittel, P.E.
Permitting Branch Supervisor
Bureau of Sustainable Materials Management

ee: Jeff Kinder, Deputy Administrator, NDEP
Annalyn Settelmeyer, Bureau Chief, NDEP-BSMM
Jonathan Zittel, Permitting Branch Supervisor, NDEP-BSMM
Maureen Godbout, Permitting Branch, NDEP-BSMM
Chris Locken, Compliance and Enforcement, NDEP-BSMM
Sheryl Fontaine, Chief, Bureau of Administrative Services
T.J. McCaustland, CleanEarth
John Black, CleanEarth
John Hansen, CleanEarth
Mary Weinheimer, CleanEarth
Modesto Granados, CleanEarth
William Shane, All4, Inc

Article #: 9489 0090 0027 6498 7126 81

APPENDIX E – RCRA CONTINGENCY PLAN

7. CONTINGENCY PLAN

In accordance with 40 CFR 264, Subpart D, the following plan will be used in the event of an emergency involving hazardous materials and wastes at the Fernley Facility.

This Contingency Plan contains the following:

- Emergency Guidance: To act as a guide during actual emergency situations.
- Hazard Minimization: To minimize hazards to human health and the environment from fires, explosions, or any structures, or to the air or soil.
- Mutual Aid: To familiarize local emergency response personnel (i.e., sheriff, fire, and rescue departments, hospital and government personnel) with the types of materials handled and internal emergency response procedures.
- Training: To act as a training guide for employees, to familiarize them in proper procedures, and to implement during an actual emergency situation.

Several copies of this plan are maintained at the Fernley Facility at all times for use during an emergency. In addition, a copy has been submitted to the following agencies:

- Lyon County Sheriff
- North Lyon County Fire Protection District (NLCFPD)
- Lyon County Emergency Management (LCEM) Director
- Renown Urgent Care
- Nevada Division of Environmental Protection (NDEP)

7.1 GENERAL FACILITY DESCRIPTION

7.1.1 Facility Identification, Location, and Site Plan

The Fernley Facility is located at 2095 Newlands Drive East, Fernley, Nevada. The Fernley Facility location is identified in *Figure 1-1, Facility Site Plan*. The Facility's access routes are indicated in *Figure 2-11*, *Facility Access Routes*.

7.1.2 Facility Operations

The Fernley Facility is a hazardous waste storage and treatment facility engaged in the following functions:

1. Acceptance of hazardous and non-hazardous industrial, wholesale, and retail waste from various generating industries.
2. Acceptance of metal containing wastes for reclamation.
3. Storage of hazardous materials and waste in tanks and containers. Organic material with ≥10% TOC or having a VOC concentration at the point of generation of ≥500 ppmw will be accepted for storage (no treatment activities) on any container storage area except for the Truck Bay.
4. Treatment of aqueous liquid hazardous and non-hazardous industrial waste in tanks and other recovery equipment.
5. Acceptance of used batteries for storage and transportation.
6. Acceptance of aerosol cans for storage, processing, propellant recovery, and off-site shipment of waste solids and liquids.
7. Depacking, repacking, and consolidation of lab pack and loose pack materials.

7.1.3 Hazardous Wastes Handled at the Facility

The hazardous waste accepted, stored, and treated at the Fernley Facility are presented in *Table 7-1, Hazardous Waste Accepted at the Fernley Facility*.

Table 7-1
Hazardous Waste Accepted at the Fernley Facility

Waste Type	Hazards	EPA Waste Code(s)
Ignitable	Flash point of less than 140°F or ignitable compressed gas or is an oxidizer	D001
Corrosive	pH <2 or >12.5	D002
Reactive	Reactive – possible water reactive or Cyanide or Sulfide waste that is capable of releasing toxic gasses	D003
Toxic	Toxicity	D004-D043

Waste Type	Hazards	EPA Waste Code(s)
Waste from Non-Specific Sources	Potentially Toxic/Reactive/Acutely Hazardous	F001-F012, F019-F028, F032, F034, F035, F037-F039
Waste from Specific Sources	Corrosive, Toxic	K001-K011, K013- K052, K060-K062, K069, K071, K073, K083-K088, K093-K098, K100-K118, K123-K126, K131, K132, K136, K140-K145, K147-K150, K156-K159, K161, K169-K172, K174-K178, K181
Acutely Hazardous Commercial Chemical Products	Toxic	P001-P018, P020-P024, P026-P030, P033-P034, P036-P051, P054, P056-P060, P062, P064-P078, P081, P082, P084, P085, P087-P089, P092-P094, P097-P099, P101-06, P108-P116, P118-P123, P127, P128, P185, P188-P192, P194, P196-P199, P201-P205
Toxic Commercial Chemical Products	Toxic	U001-U012, U014-U039, U041-U053, U055-U064, U066-U099, U101-U138, U140-U174, U176-U194, U196, U197, U200-U211, U213-U223, U225-U228, U234-U240, U243, U244, U246-U249, U271, U278, U279, U280, U328, U353, U359, U364, U367, U372, U373, U387, U389, U394, U395, U404, U409-U411

7.2 EMERGENCY COORDINATOR AND KEY PERSONNEL

The Fernley Facility has established key personnel with experience in responding to a spill, fire, or explosion involving hazardous waste described in this section.

At all times, one designated Emergency Coordinator (EC) will be available either on the Facility premises or on call and will be responsible for coordinating all emergency response measures. The EC will have full authority to commit all resources needed to carry out the measures provided in this plan. See *Appendix 7-1* for the letter of Authorization for Emergency Coordinators.

The EC will be thoroughly familiar with the Facility Contingency Plan, all operations and activities at the Facility, the location and characteristics of the materials and wastes handled, the location of all Facility records, the Facility layout, and the location of all emergency response and spill clean-up equipment.

In the event of an emergency, the EC must immediately:

1. Activate internal Facility alarms or communication systems to notify all Facility personnel.
2. Ensure that all personnel are accounted for and isolated from danger.
3. Arrange for emergency services for any injured personnel.
4. Notify state or local emergency response teams if their help is needed.
5. Decide whether an evacuation of the Facility and/or surrounding areas is necessary. Note: If the EC believes an evacuation of off- site areas is needed, response agencies will be alerted as outlined in *Section 7.4.7, Coordination Agreements*.

A list of the key personnel and local emergency response agencies are provided in *Table 7-2*.

Table 7-2
Emergency and Key Personnel

Agency	Emergency Number[(1)]	Non-Emergency Number[(1)]
Fire – North Lyon County Fire Protection District	911	775.575.3310
Medical – Renown Urgent Care	911	775.982.5000
Sheriff – Lyon County Sheriff's Department	911	775.575.3350
Electric – NV Energy	775.834.4100 or 800.962.0399	775.834.4444
Gas – Southwest Gas	775.882.0193 or 800.772.4555	877.860.6020
Emergency Coordinators		
Modesto Granados – Plant General Manager 2095 E Newlands Road Fernley, NV 89408		310.242.6280
Randell Wells – Operation Production Manager 1675 Sky Mountain Dr Reno NV 89523 apt 1114		445.243.1051
Mary Weinheimer – Materials Manager 7717 Cerritos Circle Sparks Nv 89436		775.530.9492
Joe Ryan – Transportation Supervisor		775.315.4689
Jen Anderson – Shipping/Receiving Manager		775.835.3573
John Carpenter – Regional Plant Director		

T.J. Mc Caustland – Permitting Compliance Manager 5158 Ashley Drive Covington, Georgia 30014	770.891.2531
Greg Fink – Director, Permitting Compliance	215.768.6470

(1) Dial Area code for all non 911 calls

7.3 IMPLEMENTATION OF THE CONTINGENCY PLAN

Where public health or the environment is threatened, the following emergencies would call for the implementation of the Contingency Plan:

a. Fire/explosion anywhere on premises.
b. On-site and off-site releases of hazardous wastes or hazardous waste constituents.
c. The occurrence of natural disasters.

Listed below are detailed examples of the emergency incidents described above.

a. Fire/Explosion

- Any advanced stage of fire (beyond the incipient stage, as defined in 29 CFR 1910.155(c)(26)) that cannot be easily controlled or extinguished by portable fire extinguishers, or small hose systems.
- A fire in which the use of water or chemical fire suppressant could result in contaminated runoff.
- A fire that causes the release of toxic fumes.
- A fire that spreads and could possibly ignite stored materials/chemicals in other locations on-site.
- A fire that could cause heat-induced explosions of materials/chemicals on-site. The potential for explosion poses hazards of flying fragments, ignition of other hazardous materials and their release.

b. Material Release

- A sudden or non-sudden release that poses a threat to public health or the environment or is an uncontrolled release of a reportable quantity of a hazardous substance.
- A release from containment, resulting in soil or surface water or potential groundwater contamination.

- An uncontrolled release originating from a damaged shipment that has arrived at the Facility in such a condition.
- A release of gas to the air originating from an explosion or reaction of materials.

c. Natural Disaster

- A release or potential for release of hazardous materials caused by earthquake or severe flooding conditions that damage equipment, foundations, structures, or tanks.
- A release or potential for release of hazardous materials caused by a severe storm involving high velocity winds or lightning that damages or overturn containers.

7.4 EMERGENCY RESPONSE PROCEDURES

7.4.1 Response Procedures

7.4.1.1 Employee Response

In the event of an emergency, employees will attend to their own safety. The employee will first leave the area via the safest exit and either activate the alarm or notify an on-site supervisor. Then, if is safe to do so, they will attend to other employees requiring immediate assistance. Locations of telephones/intercoms are shown in *Figure 7-1*, and alarm signals are listed in *Table 7-3*.

Table 7-3
Alarm Signals

There are three main types of emergency alarms that will sound throughout the Facility and laboratory areas.
1. Fire Alarm – Buzzer, Horn, or Bell
Immediately proceed by the evacuation route to the Assembly area. The Emergency Coordinator will provide additional instruction.
2. Gas Monitor Alarms – Siren
Immediately proceed by the evacuation route to the assembly area. Check wind direction and move up wind at least 100-feet if the assembly area is downwind. Return to work only after permission is given by the Emergency Coordinator.
3. Medical Alert Alarm – Intermittent Whistle

Immediately proceed by the evacuation route to the assembly area. The Emergency Coordinator will check the panel to determine area of alarm activation and proceed to that area with a first aid kit. Evacuated staff will perform role call to account for all personnel.

Hazardous material characteristics and appropriate handling procedures are identified *Table 7-4*. Practice emergency drills during which employees use the various alarms and alarm signals are held on a quarterly basis. These drills will be conducted as part of the Training Plan, as described in *Section 8*. All employees on-site at the Fernley Facility must participate in emergency drills, and they will be documented in the operating record.

Table 7-4
Hazardous Material Characteristics and Handling

Substance	Location	Life Hazards	Personal Protective Equipment	Storage	Fire Fighting
Concentrated Acids & wastes (commonly plating or stripping solutions)	Tank Storage Area, West Pad Container Storage Area (CSA), East Pad, Lab Pack Room	Extremely toxic DO NOT HANDLE WITH BARE HANDS. Can cause sever deep burns; avoid contact. Breathing concentrated mists can damage upper respiratory tract and lung tissue damage.	Wear full protective clothing (acid resistant) including safety goggles. Upon any contact with skin or eyes, the material should be washed off immediately. Remove contaminated clothing immediately. Wear self-contained breathing apparatus in the presence of mists or vapors, or for cleaning up spills.	Store away from cyanide and sulfide materials or combustible materials.	Material is not normally flammable. Use large amounts of water or smother with suitable powder. Fire fighters must be protected from contact with the material. Wear SCBA to protect against corrosive vapors which may be given off.
Cyanide solutions	Tank Storage Area, West Pad CSA, East Pad, Lab Pack Room	Extremely toxic. DO NOT HANDLE WITH BARE HANDS. Releases highly toxic and flammable hydrogen cyanide gas on contact with acids. Very toxic through inhalation or ingestion. Also, can be absorbed through the skin.	Wear full protective clothing including safety goggles. Upon any contact with skin or eyes, the material should be washed off immediately. Wear self-contained breathing apparatus when cleaning up spills.	Separate from acids and oxidizing materials.	Water, dry chemical, alcohol foam or carbon dioxide may be used to fight a fire in an area containing cyanides. In advanced or massive fires, firefighting should be done from a safe distance or from a protected location. Fire fighters should wear protective clothing and SCBA
Metal sludges (hydroxide)	West Pad CSA, East Pad	Ingestion of large amounts can cause intestinal disorders and even death. Toxicity primarily due to metals. Hydrogen sulfide can be released upon contact with acids and powerful oxidizers.	Wear full protective clothing including safety goggles. Self-contained breathing apparatus should be worn if hydrogen sulfide presence is suspected (rotten egg smell).	Keep separate from strong Oxidizers	Essentially nonflammable, however, if ignited must treat as a metal fire. Normal fire extinguishers, water, CO_2, foam, may not be effective. Dry sand, ultra-sorb may be required to blanket fire.

Substance	Location	Life Hazards	Personal Protective Equipment	Storage	Fire Fighting
Acid Solutions	Tank Storage Area, West Pad CSA, Lab Pack Room, East Pad	Corrosive. Contact can cause burns, damaged sight. Can be toxic if ingested. Breathing of concentrated mists can damage upper respiratory tract and lung tissue.	Wear full protective (acid resistant) clothing including safety goggles. Upon any contact with skin or eyes, the material should be washed off immediately. Remove contaminated clothing. Wear self-contained breathing apparatus if mists or vapors are present.	Store away from cyanide and sulfide materials or combustible materials.	Material is not normally flammable. Use extinguishing agent appropriate for surrounding fire. If this material comes in contact with cyanide solutions, toxic cyanide gas may be released. Fire fighters should wear self-contained breathing apparatus. Explosive hydrogen gas may be released on contacting metals.
Alkaline Solutions	Tank Storage Area, West Pad CSA, Lab Pack Room, East Pad	Toxic. A severe eye hazard concentrated solution destroys tissue on contact.	Wear full protective clothing (splash resistant), including goggles and face shield.	Separate from acids, metals, explosives, organic peroxides, and easily ignitable materials.	Material is not normally flammable. Use extinguishing agent appropriate for surrounding fires. Fire fighters should wear protective clothing and avoid contact with material
Oxidizers Liquids and Solids,	West Pad CSA, Lab Pack Room East Pad	Oxidizer: Capable of supplying oxygen to a fire, making extinguishing difficult.	Wear full protective (acid resistant) clothing including safety goggles. Upon any contact with skin or eyes, the material should be washed off immediately. Remove contaminated clothing including goggles.	Separate from strong reducing agents, metals, flammables and combustibles, and easily ignitable materials.	Use water only, attempt to remove heat and fuel source.

Substance	Location	Life Hazards	Personal Protective Equipment	Storage	Fire Fighting
Flammable Liquids	West Pad CSA, Lab Pack Room, East Pad, APU	Material with a flashpoint below 140	Wear full protective clothing, including goggles.	Separate from oxidizers, corrosive acids and bases, water reactive compounds and poisons.	Use dry chemical or CO_2 fire extinguishers.
Water Reactive Liquids and Solids	West Pad CSA, Lab Pack Room, East Pad	Reactive: Capable of becoming spontaneously flammable or produce toxic or flammable gases	Wear full protective clothing, including goggles.	Separate from, flammables, oxidizers, organic peroxides, concentrated acids and bases, cyanides and sulfides	Use dry chemical or CO_2 fire extinguishers. DO NOT USE WATER.

For newly hired employees, Contingency Plan training will be held prior to the employee working in the active areas of the Facility. In all emergency situations (regardless of size or extent), the employee involved in or discovering the situation will first contact the EC and provide information as to the location, nature, and extent of the incident. The names, addresses, and telephone numbers of the Primary and Alternate Emergency Coordinators are found in *Table 7-2*.

7.4.1.2 Emergency Coordinator Response

In the event of an emergency, the EC will first evacuate the affected portion of the Facility, or, as necessary, the entire Facility. The EC will account for all employees and notify the appropriate emergency responders.

The EC will identify the character, exact source, amount, or extent of released materials through direct observation, review of operating records, manifests, waste analysis reports, or chemical analysis.
The EC must also assess the possible hazards to human health or the environment that may result from any release, fire, or explosion (e.g. the effects of any toxic, irritating, or asphyxiating gases that are generated) or the effects of any hazardous surface water runoff from water or chemical agents used to control fire. The EC must consider both direct and indirect effects of any release, fire, or explosion. The EC shall use their best professional judgment for the assessment of possible hazards. If the emergency threatens human health and/or the environment outside the Facility, the EC must provide the following information to responders:

1. Name and telephone number of reporter;
2. Name and address of the Facility;
3. Time and type of incident (e.g. release, fire);
4. Name and quantity of material(s) involved;
5. The extent of any injuries;
6. The possible hazards to human health or the environment outside the Facility;
7. Medium of release;
8. In assessing whether the evacuation of local areas is necessary, the EC will assess:
    a. The nature and toxicity of the material involved in the emergency;
    b. Prevailing wind;

c. Potential for migration outside the Facility;
d. Possibility of explosion and a pending release of toxic vapors, gases, or mists.

During an emergency, the EC will take any and all measures they deem necessary (e.g. stop operations, isolate containers, etc.) To ensure that fires, explosions, or releases do not occur, reoccur, or spread to other hazardous waste areas of the Facility. If the Facility stops operations, the EC will monitor for leaks, pressure buildups, gas generation, or ruptures in pipes, valves, or other equipment.

Detention pond and sumps will be monitored during an emergency event. After an emergency, the EC will:

- Supervise cleanup efforts and ensure that the recovered waste or contaminated material is properly treated, stored, or disposed of.
- Ensure that no waste that may be incompatible with the released material is treated, stored, or disposed of until cleanup procedures are completed.
- Make sure emergency and spill cleanup equipment is back in order before operations resume.
- Inspect all emergency equipment listed in the Contingency Plan and certify that said equipment is cleaned and fit for its intended use before operations are resumed.

7.4.1.3 Security Personnel/Answering Service Response

A privately owned security response service is employed by the Facility. In the event of an alarm from a release, the company calls the Facility for confirmation. If no one answers the telephone, a call is initiated to the EC. The EC will determine if outside assistance is required and will request the service call the NLCFPD. The service is responsive to fire, cyanide alarms, hydrogen sulfide alarms, and medic alarms.

7.4.2 Notification

Following an incident requiring implementation of the Contingency Plan, the following notifications will be made:

1. Within one (1) hour of event, call Nevada Department of Emergency Management at (775) 687-4240 (24-hr phone number), and provide the following:
    a. Report incident and receive State Incident Number. Write down State Incident Number, person contacted, date and time of day.
2. Within one (1) hour of event, call LCEM at (775) 463-6510 or 302-7088 and:
    a. Report incident and State incident number, note person contacted, date and time of day.
3. Additionally, the NDEP (telephone (888) 331-6337 nights/weekends) Air, Water, and/or Hazardous Waste divisions must be notified within 24 hours. Finally, if a reportable quantity is released, the U.S. EPA National Response Center (telephone number [800] 424-8802) must be notified immediately.
4. Within 15 calendar days after an incident requiring Contingency Plan implementation or the release of a reportable quantity, the owner or operator will submit a written report to the Director of NDEP documenting the following:
    a. Name, Address and Telephone Number of the Owner or Operator.
    b. Name, Address, and phone number of the Facility.
    c. Date, Time and Type of Incident, including the name and quantity of materials involved.
    d. The extent of injuries, if any.
    e. An assessment of actual or potential hazards to human health or the environment, where applicable.
5. Estimated quantity and disposition of recovered material that resulted from the incident.

Also, within 15 days, the written follow up report will be sent to the following agencies:

Nevada Department of Emergency Management
2478 Fairview Dr #B
Carson City, NV 89710

Nevada Department of Environmental Protection Bureau of Corrective Actions
Attn: Bureau Chief
901 S. Stewart Street, Suite 4001 Carson City, NV 89701

Nevada Division of Environmental Protection Bureau of Sustainable Materials Management
Attn: Permitting Supervisor
901 S. Stewart Street, Suite 4001 Carson City, NV 89701

Lyon County Emergency Management
Attn: EM Coordinator
27 S. Main Street
Yerington, NV 89447

North Lyon County Fire Protection District
Attn: Fire Chief
195 E. Main Street Fernley, NV 89408

Fernley Town Board
P.O. Box 1624
Fernley, NV 89408

7.4.3 Containment and Control of Emergencies

This plan has been developed and organized to afford maximum guidance during an incident of any magnitude. The EC and personnel employed at the Fernley Facility are thoroughly familiar with this document and will follow prescribed procedures in the event of an emergency.

Should an emergency situation arise, the EC will be notified immediately. Concurrently, all Facility personnel will be notified where required. Sheriff departments, federal, state or local agencies or contractors will be notified if their assistance is required.

Fire:
195 E. Main Street
Fernley, NV 89408
911

Police:
Lyon County Sheriff
555 East Main Street
Fernley, NV 89408
(775) 575-3350 Fernley Sub Station
(775) 463-6620 Dispatch (or)
(775) 577-5023 Dispatch

Emergency Department:
Northern Nevada Medical Center
2375 Prater Way
Sparks, NV 89434
(775) 356-4040

NV Department of Emergency Management:
2478 Fairview Drive #B
Carson City, NV 89710
(775) 687-0300

Medical:
Renown Urgent Care
1343 West Newland Drive
Fernley, NV 89408
(775) 982-5000
Mon–Fri, 9AM-7PM
Sat–Sun, 9AM–3PM

State Police:
Nevada Highway Patrol
555 Wright Way
Carson City, NV 89710
(775) 687-5300

Chemical Information:
Chemtrec
Chemical Transportation Emergency Center
Washington, D.C.
(800) 424-9300

Lyon County Emergency Management:
27 S. Main Street
Yerington, NV 89447
(775) 463-6531 (or) (775) 577-5037

Spill Clean-up:
Clean Earth Emergency Response
https://www.cleanearthinc.com/services/emergency-response
(877) 577-2669

Spill Clean-up Alternate:
H2O Environmental
3510 Barron Way #200
Reno, NV 89511
(775) 351-2237

Security Company:
Desert Hills Fire and Security
deserthills.com
Sparks, NV
(775) 359-2005

Danger Outside Facility:
National Response Center
(800) 424-8802

7.4.3.1 Injured or Endangered Employees

Various medical emergency and first aid equipment is maintained on-site. The general first aid response to medical emergencies and injuries is as follows:

- Move victim to fresh air; call emergency medical care – 911 for emergency ambulance dispatch.
- If not breathing, give artificial respiration.
- In case of contact with material remove clothing, if necessary, immediately flush skin and eyes with running water for at least 15 minutes and keep warm.
- Remove and isolate contaminated clothing and shoes.
- Administer additional specific first aid as appropriate.
- Keep victim warm and await the arrival of emergency medical response unit.
- Ensure that a description of the incident and the materials involved (provide SDS or waste profile) accompanies the victim to the hospital. The SDS or profile should be provided for the hazardous material. As determined advisable by the EC, a member of the management team should accompany the victim to the hospital.
- SDS and waste profiles are maintained at the Fernley Facility.

7.4.3.2 Fires and Explosions

Fire/Explosion – Emergency Procedures

Refer to *Table 7-5* regarding Fire Classes and Fire Extinguishers. Refer to *Table 7-4* for identification of hazardous material characteristics and appropriate handling procedures. Depending upon the magnitude of the fire incident and the amount of material involved, the following emergency procedures will be implemented.

Table 7-5
Fire Types and Fire Extinguishers

Fire Types and Fire Extinguishers		
Fire Class	**Fire Description**	**Use Fire Extinguisher Class**
A	Ordinary Combustibles – Wood, paper, plastics	Multi-purpose (ABC) rated, water, fire foams - Aqueous Film Forming Foam (AFFF) /Alcohol Type Concentrate (ATC) DO NOT USE CO_2 OR DRY CHEMICAL
B	Flammable Liquids, Greases or Gases	Dry Chemical (BC)
C	Energized Electrical Equipment – Live wires	CO_2, Halon, ABC, BC rated DO NOT USE WATER
D	Elemental Metal Fires – Magnesium, Lithium	Class D rated extinguishers only.
Fire Extinguishers		
Extinguisher	**Class**	**Description**
Water, Pressurized Water	A	Extinguish by cooling, soaking and penetrating solid combustible hazards. Good for oxidizers.
Multi-purpose	ABC	Contains siliconized mono-ammonium phosphate, forming vapor barriers and displacing oxygen.
Foam	ABC	AFFF → effective vapor barrier cutting off fuel source.
CO_2 – Carbon dioxide	BC	Extinguishing by displacing oxygen. Good for liquid flammables and electrical fires.

Fire Types and Fire Extinguishers		
Dry Chemical	BC	Contains siliconized sodium bicarbonate. Suitable for use on all types of electrical and flammable liquid and gas fires. Forms vapor barriers and displaces oxygen.
Clean Steaming Agents Halon 1211	BC	These agents are stored as a liquid and discharged under pressure as a vapor, causing no cold or static shock. The unit extinguishes fire by chemically interacting. Good for flammables and electrical fires.
Powder Type	D	Contains Sodium chloride based dry powder. Heat from the fire causes it to cake and form a crust excluding air and dissipating the heat from the burning metal. Copper powder units smother fires.

Small Spill on Fire

1. Grab fire extinguisher and extinguish flames. If unable to immediately extinguish, sound alarm and leave area. If not extinguished, follow procedures in *Section 7.4.3.2* for large fires.
2. Notify EC. The EC will notify the local fire authorities if the EC deems the fire will require additional manpower to manage the situation by dialing 911 on any available phone.
3. If the EC or one of the alternates is not immediately available to make this determination, the decision to call the Fire Department falls upon the shift lead or operations personnel in charge at the time of the incident.
4. Eliminate and continue to restrict all sources of ignition so the fire will not re-ignite.
5. Wearing boots, protective gloves, and eye protection, stop leak. Absorb spill with absorbent or pump to standby empty recovery drums.
6. Follow spill cleanup procedures described in *Section 7.4.3.3*.

Oxidizers on Fire

1. (Employee) Leave the area via the safest exit and notify the supervisor in charge of that portion of the Facility, the EC, or Facility Manager whichever supervisor is immediately available.
2. (Supervisor) If safe to do so, grab a water hose, DO NOT USE HALON, CO_2, DRY CHEMICAL OR FOAMS TO EXTINGUISH FLAMES; oxidizers create their own oxygen. To put out a fire you have to remove the heat/ignition source or eliminate or reduce the flammability of the fuel source. If

unable to immediately extinguish, sound alarm and leave area. If not extinguished, follow procedures in *Section 7.4.3.2* for large fires.

3. Notify EC. The EC will notify the local fire authorities if the EC deems the fire will require additional manpower to manage the situation by dialing 911 on any available telephone.
4. If the EC or one of the alternates is not immediately available to make this determination, the decision to call the Fire Department falls upon the shift lead or operations personnel deemed in charge at the time of the incident.

Flammable Liquids on Fire (West Pad or East Pad Container Storage Area, Lab Pack Room)

1. (Employee) Leave the area via the safest exit and notify the EC or supervisor in charge of that portion of the Facility whichever is immediately available.
2. (Supervisor) If safe to do so, grab compatible fire extinguisher and extinguish flames following procedure outlined in *Section 4.3.2.1* for small fires. If unable to immediately extinguish, sound alarm, leave area and notify EC.
3. If the EC determines the fire will require additional manpower to manage the situation, he will contact the fire department by dialing 911 on any available telephone. If the EC determines the fire is controllable, he/she will contact trained employees. If fire does not extinguish, all personnel should evacuate the building and wait for the arrival of the Fire Department following the procedures outlined in *Section 4.3.2.4* for large fires.
4. If the EC or one of the alternates is not immediately available to make this determination, the decision to call the Fire Department falls upon the shift lead or operations personnel in charge at the time of the incident.

Large Fire or Large Spill on Fire (West Pad or East Container Storage Areas)

1. Sound Emergency Fire Alarm using pull box.
2. Office personnel call NLCFPD upon sounding of emergency alarm by dialing 911 or calling (775) 575-3310.
3. Notify EC (if not already aware of the situation).
4. All personnel will immediately evacuate the building via the nearest exit, whenever the fire alarm sounds. They will not return to their workplace until cleared by the EC.

5. In the event of a release of toxic gases or the potential for explosion, off-site evacuation may be advisable.
6. Determine the most accessible and safest route of approach to the fire. Consider flame migration potential, associated dangers and physical limitations. Attempt to determine the nature and source of the burning material using knowledge of tank and container contents.
7. When Fire Department arrives, delegate to them primary responsibility. Stand by for assistance.
8. Cool nearby tanks with water (being careful of any water reactions).
9. When fire is extinguished, remedy point source to stop flow if it can be done without risk.
10. Absorb spilled material or pump to available tank or empty containers. Use shovel to spread standard industrial absorbent over affected area.
11. Collect contaminated material (i.e., absorbent, dry chemical, rags, etc.) in recovery drums.
12. Decontaminate boots, gloves, goggles, face shields, self-contained breathing apparatus and other reusable emergency response equipment.
13. Cleanup, restore or replace emergency response equipment, and return it to its original location.
14. Inspect emergency equipment as specified in *Section 7.4.5*. See Equipment Inspection Form.
15. Label and mark recovery drums in accordance with all applicable hazardous waste rules and regulations.

7.4.3.3 Spills and Releases

In the event of a spill, leak or release of any kind, the following general steps will be followed:

1. Notify EC or Alternate (verbal communication).
2. Determine source of leak or spill immediately identify the character, exact source, amount and area affected by the release. Shut off pump(s) if possible, without endangerment of personnel.
3. Eliminate and continue to restrict all sources of incompatible materials or ignition from spill area, and areas down-wind of the spill area.
4. Assessment: The EC will assess possible hazards to human health and the environment by considering both direct and indirect effects of released material.

<u>Uncontrolled Spills</u>

Follow General Spill Procedures identified above.

1. Don appropriate PPE. Type of respirator will be determined by the EC using published OSHA and NIOSH standards for the materials identified.
2. Identify, remedy, and stop point source where possible.
3. Dike spill with Standard Industrial Absorbent as required.
4. Once flow is stopped, pump spilled material to empty tank or recovery drums, or absorb spilled material with Standard Industrial Absorbent. Use shovel to uniformly disperse absorbent over affected area.
5. Collect contaminated material (i.e., absorbent rags, etc.).
6. Decontaminate boots, protective clothing, gloves, and face shield. Dispose of Tyvek suits into a recovery drum with contaminated absorbent.
7. Cleanup, restore or replace spill response equipment, and return it to its original location.
8. EC will complete physical inspection of all emergency equipment to ensure the equipment is cleaned and fit for its intended use as specified in the Equipment Manufacturer's Operating Procedures. See Equipment Inspection Form.
9. Label recovery drums in accordance with all applicable hazardous waste rules and regulations.
10. Observe proper hygiene procedures during decontamination of personnel.

7.4.3.3.1 Contained Spills

<u>Spills within Diked Tank Storage/Treatment Areas:</u>

1. Immediately notify EC. He will determine whether toxic or irritating fumes may be formed. The EC will prescribe appropriate respiratory protection using published OSHA and NIOSH guidelines for the identified material. Activation of the contingency plan is at the prerogative of the EC based on criteria defined in *Section 7.3, Implementation of the Contingency Plan*.
2. EC will summon outside assistance as required.
3. Contact laboratory personnel to determine which tanks are available and/or compatible with spilled materials.
4. Pump into the appropriate storage tank.

5. All liquid waste tanks are in bermed containment areas with berms designed to contain 110 percent of the total volume of the largest tank within the berm; escape from the berm is a low probability.
6. Each berm has a sump with a level alarm. The sumps are designed to allow pump out using portable air or electric operated pumps. There are no drains associated with the sump, thus eliminating underground piping that might leak.
7. In the event of a leak or spill, the spilled material is washed into the sump and pumped to the appropriate storage tanks or reactor at the direction of the EC in conjunction with the laboratory personnel and outside assistance as required.
8. The maximum estimated cleanup time required for such an emergency is one hour for up to the first 300 gallons and an additional hour for each additional 1,000 gallons.
9. Clean and repair spill area thoroughly.
10. The estimated repair time for tanks will vary with the specific flow; however, tanks will not be returned to service until repaired.

Spills within Truck Unloading Area:

1. Immediately notify EC. They will determine whether toxic or irritating fumes may be formed. The possibility of hazardous vapors always exists from a spill of hazardous materials. The EC will prescribe appropriate respirators. Activation for the Contingency Plan is the prerogative of the EC based on criteria defined in *Section 7.3*, *Implementation of the Contingency Plan*.
2. The EC will summon outside assistance, such as a spill cleanup contractor, as required.
3. The EC will determine whether or not the spilled material will remain within the spill control area and whether to use absorbent material to contain the spill if necessary.
4. Contact laboratory personnel to determine which tanks are available and/or compatible with spilled materials.
5. Pump to appropriate storage tanks.
6. Clean spill area thoroughly.

Spills on West Pad Container Storage Area, East Pad Container Storage Area, East Container Storage Area, Lab Pack Room, and APU:

Immediately notify EC. They will determine whether toxic or irritating fumes may be formed. The possibility of hazardous vapors always exists from a spill of hazardous materials. The EC based on criteria defined in *Section 7.3*, *Implementation of the Contingency Plan*.

1. The EC will summon outside assistance, such as a spill cleanup contractor, as required.
2. The EC will determine whether or not the spilled material will remain within the spill control area, and use absorbent material to contain spill if necessary.
3. Portable tanks or drums will be maintained to recover any spilled material and wash water.
4. Clean spill area thoroughly.

Spills in Solids Receiving Area:

1. Immediately notify EC. Activation for the Contingency Plan is the prerogative of the EC based on criteria defined in *Section 7.3, Implementation of the Contingency Plan*.
2. The EC will summon outside assistance, such as a spill cleanup contractor, as required.
3. The EC will determine whether or not the spilled material will remain within the spill control area and use absorbent material to contain spill if necessary. Containment in the Solids Receiving Area is adequate to fully contain the largest possible spill.
4. Clean spill area thoroughly.

7.4.3.4 Damaged Shipments

Damaged shipments leaking through the vehicle bed will be immediately placed in secondary containment. Refer to *Section 7.4.3.3* for spills and contained spill response. The vehicle route will be retraced to determine if waste was released off-site. Mass balance computations will be conducted, if feasible.

7.4.4 Prevention of Recurrence

The EC will take all necessary steps to ensure that a secondary release, fire, or explosion does not recur after the initial incident. The EC will ensure that incompatible wastes are not treated or stored in the affected area. Waste compatibility is determined in accordance with *Section 3, Waste Analysis Plan*.

If the Facility stops operations in response to a fire, explosion or release, the EC will monitor associated tanks for leaks, pressure build up, gas generation, or leaks and for ruptures in valves, pipes, or other equipment until the emergency has ended and normal operations can resume.

The EC together with the assistance of company Engineering, Operations, and Environmental, Health and Safety Departments will evaluate the incident to understand why and how the incident occurred and what future modifications or changes can be initiated to prevent a recurrence of the same or a similar situation. Evaluations will include equipment design, operational procedures, response tactics and personnel safety.

7.4.5 Emergency Equipment

40 CFR 264.52(e) requires that the Fernley Facility maintain a list of all emergency equipment at the Facility.

In addition, the location of each piece of equipment must be specified along with a brief outline of its capabilities. At a minimum, this equipment includes:

- An internal communications or alarm system capable of providing immediate emergency instruction (voice or signal) to Facility personnel.
- A device, such as a telephone (immediately available at the scene of operations) or a handheld two-way radio, capable of providing immediate emergency instruction (voice or signal) to Facility personnel.
- Portable pumps, fire extinguisher, fire control equipment (including special extinguishing equipment, such as that using foam, inert gas or dry chemicals), spill control equipment and decontamination equipment.
- Water at adequate volume and pressure to supply water hose streams, or foam-producing equipment, or automatic sprinklers, or water spray systems.

With regard to preparedness and prevention, the following emergency response equipment is maintained at the Fernley Facility:

Communications Equipment and Alarms

- Telephones are available throughout the Facility. Each department has a phone with a list of emergency telephone numbers. The permit will be modified when the list of Emergency Coordinators changes. The list of Other Key Personnel may change without a permit modification being required.
- A phone operated public address system is maintained at this Facility to provide immediate instruction to all personnel.
- A manually operated air horn is maintained in a cabinet near the entrance to the offices in the event the PA system is or becomes inoperative.
- A warning safety beacon with audio alarm is installed on every system within the APU and will be activated automatically when unsafe conditions are reached.

Fire Control Equipment

The following firefighting equipment is available:

- Fire Hydrants are located on the premises for fire truck link-up and use.
- Numerous fire extinguishers are located throughout the Facility as shown in *Figure 2-7*, *Fire Detection and Prevention Equipment*.
- The main building and the APU Building have a fire sprinkler system throughout.
- Fire alarms are automatically activated when the sprinkler system is activated.
- The APU is equipped with a fire suppression system from the manufacturer.

The following spill control equipment is available on-site in the northwest section of the truck bay:

- 20 empty open-top drums;
- 5 shovels.
- 200 pounds of industrial absorbent.

An emergency generator is located on the east side of the Facility. This generator is a backup source of electrical power to the Facility. The primary usage of the emergency back-up generator is for lighting, scrubber and RTO operation, and safety requirements.

Spill kits are located at the West Pad Container Storage Area, Truck Bay, East Container Storage Area, East Pad Container Storage Area, and the APU, as shown in *Figure 7-2, Emergency Equipment Locations.*

Personnel Protective Equipment

All Facility operators and potential emergency responders are issued the following PPE:

Hard hat, glove liners, heavy-duty gloves, steel toed chemical resistant boots, coveralls, and full-face respirators. These PPE items are inspected by the operator each day and replaced as needed. A list of emergency equipment is provided in *Table 7-6*.

Table 7-6
Emergency Equipment List [(1)]

Item	Locations	Capability
Communications and Alarms		
Telephones	All office Areas, Detox, Truck Bay, Maintenance, Solids Receiving	Public Address
Manually Operated Air Horn	Entrance to Office Area	Back-up Evacuation Alarm
Fire Alarms	SE Corner of Truck Bay, SW Wall of Truck Bay, NW Wall of Truck Bay, West Wall of Storage Bay, East Wall of Storage Bay, west Wall of Utility Room, West Wall of the Lobby, NW Corner of Detox, North Wall of Dewatering, North Wall of Hallway at the East Exit, SE Corner of Dewatering, SW Corner of Detox, SW Corner of the Lab Pack Room	Fire Notification
Man-Down Alarms	SW Ramp of Storage Bay, North Wall of Evaporator Area, SW of Wet Lab, SE Corner of Instrument Lab, North Wall of Boiler Area, NW corner of Dewatering, SW Corner of locker Room, East Wall of Break room, NW Corner of Detox, NW Ramp of Storage Bay	Casualty Notification
Cyanide Alarm Sensors	Storage Bay in between Tank S-1 and S-2, Detox between T-6 and T-7, HVAC between Detox and Storage Bay. Truck Bay Receiving Door, Scrubber Room	Provide Notification of CN Release and Evacuation

Item	Locations	Capability
Hydrogen Sulfide	Scrubber Room, HVAC between Detox and Storage Bay	Provide Notification of Hydrogen Sulfide Release and Evacuation
Fire Control Equipment		
Fire Hydrants	NE Corner of Facility, East Side of Facility	Water Capacity for Fire Dept
Sprinkler System	Throughout Main Building and APU Building	Automatic Fire Suppression System
Fire Extinguishers	East side of check-in pad, East Side of West Storage Pad, NE Corner of Truck Bay, NW Wall of Truck Bay, SE Corner of Truck Bay, West Wall of Storage Bay, North Wall of Evaporator Room, South Wall of Storage Bay, SW Corner of Detox, SW Wall of Dewatering, SE Corner of the Lab Pack Room, East Wall of Maintenance Shop, NW Corner of solids Receiving, NW Wall of Detox, East Wall of Storage Bay, Storage Bay Entry, SW Corner of Wet Lab, SE Wall of Instrument Lab, Detox Entry, Lobby Entrance, East Wall of Electrical Room, Wet Wall of Men's Locker Room, SE Corner of Break Room, NW wall of APU Building, NE wall of APU Building, SW wall of APU Building	Fire Suppression
Spill Control Equipment		
20 Open Top Drums	NW corner of Truck Bay	Mitigate released, provide containers for release
Shovels	NW corner of Truck Bay	Mitigate releases, provide means of cleaning up spills on solid matrix
Spill Kit	South end of West Pad, Truck Bay	Mitigate releases, provide means of cleaning up spills on solid matrix
2,000 pounds of Absorbent	NW corner of Truck Bay	Mitigate releases, provide means of absorbing liquid spills
First Aid Equipment		
First Aid Kit	Break Room, Wet Lab, Office, Lab Pack Room, APU Building	Application of immediate medical response
Calcium Gluconate	Lab, Lab Pack Room, Truck Bay	For response to hydrofluoric acid contamination
Personal Protective Equipment		

Item	Locations	Capability
Self-Contained breathing Apparatus (SCBA)	Four in office area	Provide Respiratory Protection for Release
Protective Masks	Throughout Facility	Full Face mask with hook up for canister
Disposable Tyvek and Tychem suits and lightweight gloves	Throughout Facility	Protects against chemical threats and hazards
Heavy duty gloves and boots (pairs)	Throughout Facility	Provide abrasion and drop protection
Hard hats	Throughout Facility	Provide head protection
Acid Resistant suits	Throughout Facility	Provide skin and body protection
Personal Decontamination Equipment		
Emergency Showers/Eye Washes	South end of West Pad, Instrument Lab, East Side of Solids Receiving, SW Wall of Detox, North Wall of Evaporator Room, NW Corner of Dewatering, SW Corner of Men's Locker Room, SW Corner of Detox, Lab Pack Room	Provide mitigation of personal contamination

(1) Information regarding specific emergency equipment and locations in the APU Building are being finalized and will be provided when available.

7.4.6 Post Emergency Procedures

Following an emergency or evacuation, the EC will instruct employees to conduct a daily inspection of all areas. *Section 6*, *Procedure to Prevent Hazards*, delineates all items for inspection. Only upon completion of these inspections will the Facility return to normal operations.

7.4.6.1 Storage and Treatment of Released Materials Potential Flammable or Toxic Gases

A list of flammable or toxic gases with a potential of being formed from chemicals used at the Facility, the method of detection, and possible methods to remedy, neutralize, capture, or control the gas is provided in *Table 7-7, Potential Vapors and Gases*. All possible combinations or gases may not be included on this list.

Table 7-7
Potential Vapors and Gases

Vapor/Gas	PEL/IDLH	Cause of Formation	Detected By	Remedy, Capture, Neutralization Techniques
Ammonia	30/300	Raising pH above 9.0 when ammonium species are present in solution	Odor, NH_3 colorimetric tube	Lower pH of solution to <9.0. Recover ammonia with a mildly acidic Hydrochloric acid solution in an air scrubber.
Chlorine gas	1/10	Decomposition of Sodium hypochlorite (Bleach) from mixing with acid, metal, or other impurities	Odor, Cl_2 colorimetric	Raise the pH of the solution >9.0. Capture gas by running through an alkaline air scrubber with a slight Sodium metabisulfite excess.
Hydrogen Cyanide	10/50	Mixing cyanide waste solutions with acids to a pH <8.0.	HCN Monitors	Raise the pH of the solution > 12.5. Capture gas by running through an alkaline/caustic air scrubber with a slight Sodium hypochlorite excess.
Hydrogen Gas	N/A	Acidification of Sodium borohydride solutions, strong acids on elemental zinc, cadmium. Lab reagent.	Combustible gas meter	Avoid sparks and flames, ventilate area well, eliminate source of gas by neutralizing acidic solutions.
Hydrogen Sulfide	20/100	Acidification of Sodium borohydride solutions, strong acids on elemental zinc, cadmium. Lab reagent	Combustible gas meter	Avoid sparks and flames, ventilate area well, eliminate source of gas by neutralizing acidic solutions.
Hydrogen Sulfide	20/100	Acidification of solution containing reactive or amenable sulfides.	H_2S Monitors	Raise the pH of the solution > 12.5. Capture gas by running through an alkaline/caustic air scrubber with a slight Sodium hypochlorite excess.
Nitrogen oxides	5/20	Mixing Nitric acid with a reducing agent such as Sodium metabisulfite, Nickel solutions, trivalent chrome	NO_X colorimetric tube, visible fumes	Add an oxidizer such as Potassium permanganate or hexavalent chromic acid. Alternatively, raise the pH of the solution >4.0. Capture gas with an alkaline air scrubber.

Vapor/Gas	PEL/IDLH	Cause of Formation	Detected By	Remedy, Capture, Neutralization Techniques
Sulfur dioxide	5/100	Mixing acids with Sodium metabisulfite, dilution or neutralization of conc. H_2SO_4	SO_2 colorimetric tube	Raise the pH of the solution to >3.0 or add hexavalent chromic acid. Capture gas with an alkaline air scrubber.

Note: During an emergency situation, the concentration of the gaseous release is unknown. There could also be more than one gas present depending on the solution generating the gas. Always approach an emergency situation with the maximum amount of respiratory protection; SCBA.

7.4.6.2 Equipment Decontamination and Maintenance

All Facility communication or alarm systems, fire protection equipment, spill control equipment, and decontamination, where required is tested and maintained to assure its proper operation in case of an actual emergency.

7.4.6.3 Reactivation of Activities in the affected Area

Prior to resuming normal operations, the EC will ensure that all emergency equipment is inspected and returned to operating condition. Refer to *Appendix 6-2*, *Example Inspection Forms*.

The EC must take the following precautions for the prevention of incompatible waste from being treated, stored, or located in the affected areas:

1. No new waste will be introduced into the affected area until a total cleanup is accomplished.
2. Following the spill cleanup operation, the EC will assess proper handling of recovered materials including:
    a. If the exact source of the leaked or spilled material can be determined, the cleanup residue will be identified accordingly.
    b. If the exact source of the leaked or spilled material cannot be determined or if two or more materials have mixed and subsequently been cleaned up, a sample will be collected and analyzed. Spill cleanup residues of listed hazardous wastes are automatically considered as the same hazardous waste.

c. Whenever two or more wastes are mixed as the result of a spill, the components will be reviewed to ensure that they are not incompatible with any material with which they might be combined.
d. Tests shall be made necessary to ensure proper handling and disposal of all material.

The EC will inspect all emergency equipment listed in the Contingency Plan and certify that it is clean and fit for its intended use per the manufacturer's specification. The Equipment Inspection Form will document the inspection.

Prior to the resuming operations in the affected area(s) of the Facility, the EC or designee shall contact the NDEP, Bureau of Sustainable Materials Management, and the U.S. EPA Regional Director and notify them of the impending resumption of operations.

7.4.6.4 Personnel Debriefing

The EC, with the assistance of the corporate personnel (Operations, Environmental, Health and Safety) will conduct debriefings of Facility personnel and local authorities to assess the effectiveness of the preparedness and prevention measures, response activities, control, and evacuation procedures related to the incident. Based on the review, the Contingency Plan will be evaluated and updated as needed.

7.4.7 Coordination Agreements

40 CFR 264.52(c) requires arrangements to be agreed to by the local sheriff and fire departments, hospitals, contractors, and State and local emergency response teams. In fulfillment of the requirements of this part, the Fernley Facility has made agreements that include:

1. The NLCFPD.
2. The LCEM Director.
3. The Nevada Highway Patrol to provide support as needed during an actual emergency.
4. Renown Urgent Care, 1343 West Newlands Drive, Fernley NV to familiarize their personnel with the properties of hazardous materials and wastes handled at the Facility and the types of injuries or illnesses, which could result from fire, explosions, or releases at the Facility.

5. The local police department will provide traffic control and site security as needed during the emergency.

Additionally, arrangements with the Lyon County Sheriff and NLCFPD have been made to familiarize their personnel with:

1. The layout of the Facility
2. Properties and hazards associated with the materials and wastes handled at the Facility.
3. Places where Facility personnel would normally be working.
4. Entrances to the Facility.
5. Evacuation routes.

Each agency has been contacted and sent copies of the Fernley Facility's Contingency Plan. The following arrangements have been requested:

Lyon County Sheriff Department

Lyon County Sheriff Department will receive a copy of the Contingency Plan, and has been asked to provide the following assistance during an emergency:

- Immediate Response
- Crowd Control Assistance
- Communications Support
- Security to the affected area
- Evacuation of Surrounding Areas, if required

North Lyon County Fire Protection District

NLCFPD will receive a copy of the Contingency Plan and will be asked to provide:

- Primary Emergency Authority
- Immediate Response
- Primary Fire Fighting Services

- Rescue and Emergency Transport Services
- Rescue Services

Renown Urgent Care

Renown Urgent Care will receive a copy of the Contingency Plan and will be asked to provide primary medical services.

7.4.7.1 Provisions for Adequate Aisle Space

The Fernley Facility has been designed with adequate aisle space to allow unobstructed movement of personnel, fire protection equipment and decontamination equipment to any area of the Facility operation in an emergency. This has been accomplished through the provisions of aisles between all tanks and processing equipment. Main access walkways and evacuation routes are indicated on *Figure 7-3*, *Facility Exits and Assemble Areas*.

7.4.8 Evacuation Plan

In the event that an incident poses an actual or serious potential threat to human health or safety, the EC will evacuate the Facility, or, at minimum, the affected area. If the evacuation of the outlying areas is deemed necessary, the EC will advise the local Sheriff and Fire Departments (dial 911 for emergency dispatch) and the NDEP of the potential threat to human health.

Evacuation plan implementation requires prompt and deliberate action. The plan of action described in this section will be strictly adhered to unless, in the opinion of the on-scene EC, minor modifications during an actual emergency would constitute ease of evacuation.

The following policy is applicable in the event of a Facility alarm condition.

1. When a gas or fire alarm sounds, all persons will evacuate directly through the nearest exit and proceed upwind from any smoke or fumes to the front of the Facility.

2. The EC or designee will account for all personnel at the Facility. Everyone will assemble at a location upwind of the Facility based on the direction of the windsocks and/or flags located in the front and back of the building.
3. The command area used for assessment and setting tactical priorities includes the assembly area and front offices. The EC will complete data collection and risk (hazard) characterization.
4. The EC will determine the people who will enter the Facility to respond to the event. The individuals that are responding to the emergency are chosen based on their past training, experience, skills, and knowledge of the situation. These individuals will assess the situation and gather information. This information may include the following items:
    a. Turn over sheets and log books
    b. Tank Treatment Records
    c. Scrubbers condition and pH readings
    d. Signs of visible reactions
    e. Detector tube readings of gases suspected
    f. Monitor readings and conditions
5. After entry contact, the EC and relay information and current status alarms. The EC will determine the course of action to take.
6. Notify Alarm Company that you are aware of the alarm and are working to correct conditions. The alarm company telephone number is (775) 359-2005.
7. If toxic gases are not present, the area will be rechecked, and the results given to the EC, who may release the areas for re-entry.
8. Before employees return to work, all equipment must be in proper working order and returned to their proper storage area. The EC shall certify on the Equipment Inspection Form that all emergency equipment is clean and fit for its intended use per the manufacturer's specifications.
9. Alarms will be reset, and the Alarm Company notified that the alarm condition has been corrected.
10. Reporting Requirements: In the event of an alarm condition results from a release of substances to the environment, the Nevada Department of Emergency Management and LCEM Director must be notified within one hour of the actual release. Additionally, the NDEP Air, Water, and/or Hazardous Waste divisions must be notified within 24 hours. Finally, if a reportable quantity is released, the U.S. EPA National Response Center must be notified immediately.

The objective of the evacuation plan is to minimize the health hazards to employees or visitors from imminent or potential hazards associated with a spill or fire.

Alarm Signals

The Facility emergency alarms or paging system (air horn if alarms are inactive) will be used to signal partial or total Facility evacuation. Verbal warning by an appointed runner may be used, if necessary. The following describes the emergency alarms' sounds and procedures associated with each.

The Fire Alarm, Buzzer or Bell, requires immediate evacuation to the Assembly area. The EC will provide additional instructions.

The Gas Monitor Alarms, Siren, initiates immediate evacuation to the assembly area. Check wind direction and move up wind at least 100-feet if the assembly area is downwind. Return to work area only after permission is given by the EC.

The Medical Alert Alarm, Intermittent Whistle, indicates immediate evacuation to the assembly area. The EC will check the panel to determine area of alarm activation and proceed to that area with a first aid kit. Evacuated staff will perform role call to account for all personnel.

The High-Level Alarm, Beep Tone, indicates laboratory personnel will notify the Truck Bay operator of the condition and cease pumping to the tank with the high-level alarm.

The EC makes his decision to evacuate based on the incident and threat to human health or the environment. In the event of a total Facility evacuation and the site personnel are unable to respond to the emergency, the Lyon County Sheriff and NLCFPD will be immediately notified.

Decision to Evacuate

The EC will decide when to evacuate. This decision will be based upon his experience in the field and those criteria identified in the Contingency Plan.

All personnel will immediately evacuate whenever a fire or gas alarm sounds. They will not return to their workplace until cleared by the EC. Evacuation Procedures are as follows:

1. The on-scene EC will direct the evacuation.
2. In each occurrence of an evacuation emergency, it is the responsibility of the section leads to take charge of their personnel and property in their department.
3. Supervisors who are away from their base work area when an emergency occurs are urged to return to it as quickly as possible to take charge.
4. Operators must move their vehicles, so they do not obstruct aisles. This will allow emergency vehicles to pass.
5. While the building is evacuated, operators should shut down their operations, if possible.
6. All employees, visitors and contractors will leave the Facility in an orderly manner, via exits shown in Facility Evacuation Plan in *Figure 7-3*, *Facility Exits and Assemble Areas*.
7. Immediately end all telephone conversations.
8. Do not attempt to obtain personal belongings, unless otherwise authorized.
9. Do not run or make unnecessary noise.
10. During the evacuation, the EC and appointed aids will ensure that all unauthorized personnel be prevented from entering the evacuated area.
11. When evacuating the building, all employees will proceed to the assembly area, as shown in the Evacuation Plan (see *Figure 7-3*, *Facility Exits and Assemble Areas*) and gather with their department supervisor. They will remain in the assembly area as far from the building as possible so as not to interfere with emergency personnel and equipment. It is the responsibility of department supervisors (or designees) to assemble their employees in an expeditious manner and report any unaccounted personnel to the EC.
12. The EC will account for all personnel and visitors to ensure that no one has been left behind. The EC will ensure that the visitor log is taken to the assembly area and reviewed.

13. The decision to re-enter the Facility will be made by the EC. When appropriate, the EC will determine the proper protective equipment for the employees. The factors for determination of the PPE include the potential exposures and hazards from both chemical and physical materials. For each situation, the equipment and clothing will be selected to provide an adequate level of protection.
14. The EC will obtain rescue services for injured people where required.

If the emergency situation requires the evacuation of areas surrounding the Facility, the EC will immediately inform the Lyon County Sheriff and NLCFPD (Dial 911), the Nevada Department of Emergency Management, the NDEP, and the National Response Center of such a condition. This decision will be based upon:

a. The nature and toxicity of the material involved in the emergency.
b. Prevailing wind direction.
c. Migration potential outside the Facility.
d. Possibility of an explosion.
e. Possibility of a pending release of toxic vapors, gases, or mists.

Evacuation Signal and Notification

The signal to evacuate surrounding areas will be given directly to the Lyon County Sheriff and NLCFPD. Under direction of the Sheriff and Fire Departments calls will be placed to facilities immediately surrounding the Fernley Facility, advising them of the nature of the situation and the advisability to evacuate. In all cases of surrounding area evacuation, all personnel so notified will be directed as to the best roads to use and direction(s) to proceed along, as decided by the EC in conjunction with the Lyon County Sheriff and the NLCFPD.

Whenever the EC determines that evacuation of local areas may be advisable, they must immediately notify the NLCFPD (Dial 911) and the Lyon County Sheriff Department. They must be available to help appropriate officials decide whether local areas should be evacuated. In addition, the following agencies must be notified:

1. The EC must immediately notify the Nevada Department of Emergency Management and the NDEP using the emergency spill response procedures and provide that information.
2. The EC must also immediately notify the National Response Center. The report must include:
    a. Name and telephone number of reporter;
    b. Name and address of Facility;
    c. Time and Type of incident (e.g., release, fire);
    d. Name and quantity of material(s) involved;
    e. The extent of any injuries;
    f. The possible hazards to human health, or the environment, outside the Facility.

7.4.9 Incident Reports

The Comprehensive Environmental Response, Compensation, and Liability Act's Superfund Amendments and Reauthorization Act of 1986, Title III, Section 304 requires immediate local notification when an accidental or unplanned release of a hazardous substance occurs. In addition to local emergency responders, notification will also be provided immediately to the following agencies.

- Lyon County Emergency Management
- Nevada Department of Emergency Management
- Nevada Division of Environmental Protection
- EPA National Response Center

The information required includes: identification of the substance; location of the release; time the release started; duration; estimate of the quantity of the substance released into the environment; medium of the environment receiving the release (soil, water, air, pavement, etc.); known or anticipated acute or chronic health risks associated with the release; when appropriate, advice regarding medical attention for treatment of exposed individuals; precautions to be taken, including evacuation and other considerations; and name and telephone number of contact for further information.

7.4.10 Amendments to the Contingency Plan

Periodically, the Fernley Facility's Contingency Plan and Emergency Procedures Plan will be reviewed and updated as necessary. The plan will be immediately amended whenever:

1. The plan fails in an emergency.
2. The Facility makes changes in its design, construction, operation, maintenance, or security system or other circumstances which would increase the potential for fires, explosions, or releases of hazardous waste constituents, or which may affect emergency response procedures.
3. There are changes in the amount or type of emergency equipment.
4. There are changes in Emergency Coordinators.
5. The Facility permit is revised.

If changes are made in the Contingency Plan and Emergency Procedures Plan, updated copies showing these changes will be distributed to local authorities and the NDEP. If changes are limited to the Emergency Coordinators, provided in *Table 7-1*, the plan will be redistributed to the following agencies:

- Lyon County Sheriff
- North Lyon County Fire Protection District (NLCFPD)
- Lyon County Emergency Management (LCEM) Director
- Renown Urgent Care
- Nevada Division of Environmental Protection (NDEP)

APPENDIX F – RAILCAR LOADING AND UNLOADING SOP

STANDARD OPERATING PROCEDURES

TITLE: Railcar Load/Unload

Level:	For reference only	Document Control:	
Function:	Environmental Compliance	Revision Number:	1

This SOP is for reference only and will be modified as appropriate to accurately reflect Fernley operations.

1.0 Purpose:

Bulk waste liquids are shipped from the facility in rail tank cars. The material is loaded by means of pumps, hoses, and associated piping and valves. This procedure identifies the steps to load rail tank cars.

2.0 Description:

This SOP will set out the list of steps necessary to load rail tank car shipments at the facility. It will also describe the necessary equipment for performing these functions.

3.0 General:

3.1 This SOP applies to all employees who load, process, and sample rail tank cars.
3.2 All applicable employees will be trained in the requirements of this SOP.
3.3 The provisions of this SOP will be strictly adhered to.
3.4 All loading operations will be performed by a qualified individual in attendance at all times. This person is considered qualified only after the have been fully trained and proven capable of performing this task.
3.5 The individual will be considered to be in attendance if throughout the process they are awake and have an unobstructed view of the rail tank car and are within 25 feet.
3.6 The Operations Manger will be responsible for training of key personnel who will be responsible for training their employees.
3.7 Prior to beginning any and all safety sensitive tasks, a Job Safety Analysis (JSA) is to be completed per PSC-ESD-JSA Policy_0110.

4.0 Definition:

Rail Tank Car – a type of railroad car designed to transport liquid and gaseous commodities. Many variants exist due to the wide variety of liquids that can be transported. Tank Cars tend to be large; they may be insulated or non-insulated; pressurized or non-pressurized; and designed for single or multiple loads.

5.0 Required Safety Equipment:

Required safety equipment includes chemical resistant gloves, hard hat, safety glasses, steel toe boots, face shield, work uniform and apron as a minimum. Respirators fitted with organic vapor/acid gas cartridges will also be worn when on top of the tanker when depressurizing or the dome lid is open.

6.0 General Instructions:

6.1 Manually check that the hand brakes are set and the wheels have been blocked against movement.
6.2 Block access to the track by use of a derails and derail sign.
6.3 While a car is connected for loading, blue caution sign (flag) must be placed on the track.
6.4 Inspect the car for damage and presence of a Defect Card. If either are found contact manager for further instructions before loading.
6.5 Ensure access to safety showers and eye wash station is clear before conducting loading activities.
6.6 Inspect tools to be used, they must be clean and in proper working order at all times.
6.7 Tank car tanks must be electrically grounded during loading activities.
6.8 During the loading process, cars must be attended by trained personnel at all times. However, operations can be discontinued on an attended car by closing valves on the car and closing valves at the pump without disconnecting hoses.

7.0 Loading Waste Tankers:

Before beginning any loading operations ensure that General Instructions in Section 6.0 are followed.

7.1 The tank car must be of sufficient capacity, both by weight and volume to contain the quantity of product being loaded.
7.2 Qualification stencils should be reviewed to confirm that the car is not overdue for any tests, qualifications or inspections. Do not load if overdue for test, qualifications or inspections.
7.3 Check fittings, valves, gaskets and fasteners to ensure proper condition (not corroded, torn, worn, stripped or otherwise damaged).
7.4 Unless the car is cleaned/purged, ensure that the residue in the car is compatible with the product being loaded. Do not load a car that has an unidentified residue.
7.5 If equipped with a safety vent, the rupture disc must be thoroughly inspected. If equipped with a pressure relief valve, the valve must be inspected to ensure no

debris is in its discharge area. If a combination pressure relief device is present each detection device (including, for example, telltale indicator or needle valve) should be checked to determine the integrity of the rupture disk. These devices must be closed prior to transportation.

7.6 At the bottom outlet valve, outlet cap and/or plug must be removed to check the bottom outlet valve for leakage. Upon removal of the plug or cap be prepared for the possible release of material from the outlet leg and from a leaking valve.

7.7 Open the vapor valve or displacement of the vapor before opening any product valve or manway. Carefully open the fill-hole cover or hinged manway cover. If using the manway cover for pressure relief, use caution when loosening bolts. The bolt(s) by the handle are the safety bolt(s). Loosen the safety bolt(s) by one or two turns at a time, and then loosen the remaining bolts.
During loading continually monitor the car for any signs of leakage.

7.8 When material in compartment reaches the half-way point, stop pump, close required valves, collect a sample and submit for verification.

7.9 Once sample has been verified, continue loading procedure.

7.10 When tanker is full, stop pump, close required valves, including tanker hand valve, open return valves, and start pump to reverse flow and remove excess product from loading hose.

7.11 Disconnect all hoses from tank car and let pump suck air into loading hose. Close appropriate valves and turn off pump.

7.12 Collect final sample.

7.13 Ensure adequate outage space remains in the car when loading is completed to prevent overloading by volume or by weight and to allow expansion in transit.

7.14 When loading is complete re-check the car for any signs of leakage. If there are any signs of leakage and if the leak cannot be stopped, the car must not be offered for transportation.

7.15 Close all valves after car is loaded. Verify there is no detectable leakage from valves, flanges, threaded connections and packing glands. Secure all plugs and outlet caps with a suitable tool.

7.16 When securing a manway, make sure the gasketing material is compatible with the product and that it is properly aligned. Tighten the manway bolts using the appropriate star pattern.

7.17 Submit sample for analysis.

7.18 The tank car must be properly placarded and marked before it is offered for transportation.

8.0 Duties and Responsibilities: The Facility Manager, Operations Manager, and any additional designee will be responsible for supervising the activities of this SOP.

9.0 Acknowledgement:

SOP ACKNOWLEDGEMENT

I have read the attached SOP entitled Tanker Load/Unload and understand all portions.

_____
Employee Name (Printed)

_____
Employee Name (Signature)

_____
Date

APPENDIX G – RCRAINFO FACILITY REPORT

21ST CENTURY ENVIRONMENTAL MANAGMENT OF NEVADA, LLC.

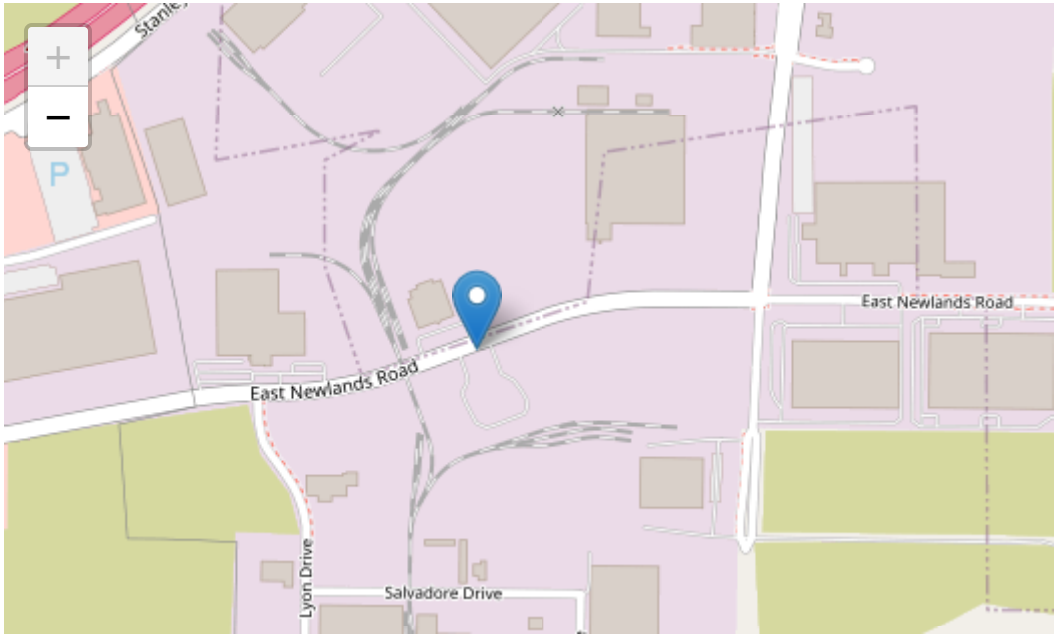
NVD980895338

Active

LQG

2095 NEWLANDS DRIVE EAST
FERNLEY, NV 89408

TSDF **Transporter** **Cleanup Site**





Leaflet | © OpenStreetMap

Site Identification

Location & Mailing Addresses

Type	Street	City	State	Zip	Latitude	Longitude
LOCATION	2095 NEWLANDS DRIVE EAST	FERNLEY	NV	89408	39.610253	-119.203094
MAILING	2095 NEWLANDS DRIVE EAST	FERNLEY	NV	89408		

Owner / Operator / Contact Information

Type	Name	Street	City	State	Zip
OWNER (PRIVATE)	21ST CENTURY ENVIRONMENTAL MANAGEMENT OF NEVADA, LLC	2095 NEWLANDS DRIVE E	FERNLEY	NV	89408
OPERATOR (PRIVATE)	21ST CENTURY ENVIRONMENTAL MANAGEMENT OF NEVADA, LLC	2095 NEWLANDS DRIVE EAST	FERNLEY	NV	89408
CONTACT	GERALD LEWIS	2095 NEWLANDS DRIVE EAST	FERNLEY	NV	89408
ANNUAL/BIENNIAL REPORT	THADDEUS JMC CAUSTLAND	5158 ASHLEY DRIVE SE	COVINGTON	GA	30014

Industry Categories (NAICS)

Code	Description
562211	HAZARDOUS WASTE TREATMENT AND DISPOSAL

Federal Activities

Description
LARGE QUANTITY GENERATOR
OPERATING TREATMENT, STORAGE, OR DISPOSAL FACILITY
TRANSPORTER
HAZARDOUS WASTE CLEANUP SITE
RECYCLER OF HAZARDOUS WASTE
UNIVERSAL WASTE - LARGE QUANTITY HANDLER

State Activities

Description
NO RECORDS FOUND.

Recent Episodic Events

Recent Episodic Events

Start Date	End Date	Event Type	Project Type	Quantity (Lbs)
NO RECORDS FOUND.				

Hazardous Waste Cleanups

Hazardous Waste Cleanups

Remedy Selected / Constructed	Environmental Indicators	Ready for Use	Perf Standards / Process Terminated
REMEDY CONSTRUCTED ONLY	HUMAN EXPOSURE AND GROUNDWATER	NO	NO

Permitting

Permitting Details

Process Code Description	Process Code	Commercial Status	Legal Status	Operating Status
CONTAINER	S01	ACCEPTS WASTE FROM OFF-SITE GENERATORS	PERMITTED	OPERATING, ACTIVELY MANAGING RCRA-REGULATED WASTE
CONTAINER	S01	ACCEPTS WASTE FROM OFF-SITE GENERATORS	PERMITTED	OPERATING, ACTIVELY MANAGING RCRA-REGULATED WASTE
CONTAINER	S01	ACCEPTS WASTE FROM OFF-SITE GENERATORS	PERMITTED	OPERATING, ACTIVELY MANAGING RCRA-REGULATED WASTE

Process Code Description	Process Code	Commercial Status	Legal Status	Operating Status
CONTAINER	S01	ACCEPTS WASTE FROM OFF-SITE GENERATORS	PERMITTED	OPERATING, ACTIVELY MANAGING RCRA-REGULATED WASTE
CONTAINER	S01	ACCEPTS WASTE FROM OFF-SITE GENERATORS	PERMITTED	OPERATING, ACTIVELY MANAGING RCRA-REGULATED WASTE
MECHANICAL PROCESSING	X02	DOES NOT ACCEPT WASTE FROM OFF-SITE GENERATORS	PERMITTED	OPERATING, ACTIVELY MANAGING RCRA-REGULATED WASTE
MECHANICAL PROCESSING	X02	DOES NOT ACCEPT WASTE FROM OFF-SITE GENERATORS	PERMITTED	CLEAN CLOSED
MECHANICAL PROCESSING	X02	ACCEPTS WASTE FROM OFF-SITE GENERATORS	PERMITTED	OPERATING, ACTIVELY MANAGING RCRA-REGULATED WASTE
OTHER SUBPART X	X99	DOES NOT ACCEPT WASTE FROM OFF-SITE GENERATORS	PERMITTED	CLEAN CLOSED
OTHER SUBPART X	X99	DOES NOT ACCEPT WASTE FROM OFF-SITE GENERATORS	PERMITTED	CLEAN CLOSED
OTHER SUBPART X	X99	DOES NOT ACCEPT WASTE FROM OFF-SITE GENERATORS	PERMITTED	CLEAN CLOSED
OTHER SUBPART X	X99	DOES NOT ACCEPT WASTE FROM OFF-SITE GENERATORS	PERMITTED	CLEAN CLOSED
OTHER SUBPART X	X99	DOES NOT ACCEPT WASTE FROM OFF-SITE GENERATORS	PERMITTED	OPERATING, ACTIVELY MANAGING RCRA-REGULATED WASTE

Process Code Description	Process Code	Commercial Status	Legal Status	Operating Status
OTHER SUBPART X	X99	ACCEPTS WASTE FROM OFF-SITE GENERATORS	PROPOSED	BEFORE CONSTRUCTION
OTHER SUBPART X	X99	ACCEPTS WASTE FROM OFF-SITE GENERATORS	POST-CLOSURE PERMITTED	INACTIVE/CLOSING, BUT NOT YET RCRA CLOSED
TANK STORAGE	S02	ACCEPTS WASTE FROM OFF-SITE GENERATORS	PERMITTED	OPERATING, ACTIVELY MANAGING RCRA-REGULATED WASTE
TANK TREATMENT	T01	ACCEPTS WASTE FROM OFF-SITE GENERATORS	PERMITTED	OPERATING, ACTIVELY MANAGING RCRA-REGULATED WASTE

Manifests

Manifest Shipments

Year	Number of Manifests	Total Quantity (Tons)	Total Quantity Hazardous (Tons)	Total Quantity Non-Hazardous (Tons)	Total Quantity Acute (Tons)	Total Quantity Non-Acute (Tons)
2025	341	3,342.53	1,321.24	2,021.30	13.34	3,329.19
2024	551	12,724.49	2,144.04	10,580.45	26.29	12,698.20
2023	570	6,672.99	3,332.35	3,340.64	34.81	6,638.18

Manifest Receipts

Year	Number of Manifests	Total Quantity (Tons)	Total Quantity Hazardous (Tons)	Total Quantity Non-Hazardous (Tons)	Total Quantity Acute (Tons)	Total Quantity Non-Acute (Tons)
2025	20505	4,152.63	2,800.19	1,352.44	22.65	4,129.98
2024	38007	7,513.32	4,396.35	3,116.97	12.91	7,500.41
2023	35934	8,062.85	5,055.85	3,007.00	8.98	8,053.87

Biennial Report

Biennial Report Summary

Cycle Year	Generated (Tons)	Managed (Tons)	Shipped (Tons)	Received (Tons)
2023	333.91	1,616.09	3,790.10	5,362.85
2021	3,203.49	1,577.81	9,795.39	4,703.21
2019	1,813.84	1,269.51	5,213.94	5,699.09
2017	1,389.08	1,297.92	3,511.58	4,128.80

Waste Generated or Managed

Federal Waste Codes

Code	Description	Site ID Form	Manifest	Hazardous Waste Biennial Report
D001	IGNITABLE WASTE	YES	BOTH	MANAGED
D002	CORROSIVE WASTE	YES	BOTH	MANAGED
D003	REACTIVE WASTE	YES	BOTH	MANAGED
D004	ARSENIC	YES	BOTH	BOTH
D005	BARIUM	YES	BOTH	BOTH
D006	CADMIUM	YES	BOTH	BOTH
D007	CHROMIUM	YES	BOTH	BOTH
D008	LEAD	YES	BOTH	BOTH
D009	MERCURY	YES	BOTH	MANAGED
D010	SELENIUM	YES	BOTH	BOTH
D011	SILVER	YES	BOTH	BOTH
D012	ENDRIN (1,2,3,4,10,10-HEXACHLORO-1,7-EPOXY-1,4,4A,5,6,7,8,8A-OCTAHYDRO-1,4-ENDO, ENDO-5,8-DIMETH-ANO-NAPHTHALENE)	YES	GENERATED	NO
D013	LINDANE (1,2,3,4,5,6-HEXA-CHLOROCYCLOHEXANE, GAMMA ISOMER)	YES	BOTH	NO

Code	Description	Site ID Form	Manifest	Hazardous Waste Biennial Report
D014	METHOXYCHLOR (1,1,1-TRICHLORO-2,2-BIS [P-METHOXYPHENYL] ETHANE)	YES	GENERATED	NO
D015	TOXAPHENE (C10 H10 CL8, TECHNICAL CHLORINATED CAMPHENE, 67-69 PERCENT CHLORINE)	YES	GENERATED	NO
D016	2,4-D (2,4-DICHLOROPHENOXYACETIC ACID)	YES	BOTH	NO
D017	2,4,5-TP SILVEX (2,4,5-TRICHLOROPHENOXYPROPIONIC ACID)	YES	GENERATED	NO
D018	BENZENE	YES	BOTH	NO
D019	CARBON TETRACHLORIDE	YES	GENERATED	NO
D020	CHLORDANE	YES	GENERATED	NO
D021	CHLOROBENZENE	YES	GENERATED	NO
D022	CHLOROFORM	YES	BOTH	MANAGED
D023	O-CRESOL	YES	GENERATED	NO
D024	M-CRESOL	YES	GENERATED	NO
D025	P-CRESOL	YES	GENERATED	NO
D026	CRESOL	YES	BOTH	NO

Code	Description	Site ID Form	Manifest	Hazardous Waste Biennial Report
D027	1,4-DICHLOROBENZENE	YES	GENERATED	NO
D028	1,2-DICHLOROETHANE	YES	GENERATED	NO
D029	1,1-DICHLOROETHYLENE	YES	GENERATED	NO
D030	2,4-DINITROTOLUENE	YES	GENERATED	NO
D031	HEPTACHLOR (AND ITS EPOXIDE)	YES	GENERATED	NO
D032	HEXACHLOROBENZENE	YES	GENERATED	NO
D033	HEXACHLOROBUTADIENE	YES	GENERATED	NO
D034	HEXACHLOROETHANE	YES	GENERATED	NO
D035	METHYL ETHYL KETONE	YES	BOTH	NO
D036	NITROBENZENE	YES	GENERATED	NO
D037	PENTACHLOROPHENOL	YES	GENERATED	NO
D038	PYRIDINE	YES	GENERATED	NO
D039	TETRACHLOROETHYLENE	YES	BOTH	NO
D040	TRICHLOROETHYLENE	YES	BOTH	NO

Code	Description	Site ID Form	Manifest	Hazardous Waste Biennial Report
D041	2,4,5-TRICHLOROPHENOL	YES	GENERATED	NO
D042	2,4,6-TRICHLOROPHENOL	YES	GENERATED	NO
D043	VINYL CHLORIDE	YES	GENERATED	NO
F001	THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLORETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.	YES	GENERATED	NO
F002	THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.	YES	BOTH	NO
F003	THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL	YES	BOTH	MANAGED

Code	Description	Site ID Form	Manifest	Hazardous Waste Biennial Report
	ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.			
F004	THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: CRESOLS, CRESYLIC ACID, AND NITROBENZENE; AND THE STILL BOTTOMS FROM THE RECOVERY OF THESE SOLVENTS; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.	YES	GENERATED	NO
F005	THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.	YES	BOTH	NO
F006	WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS, EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3)	YES	BOTH	BOTH

Code	Description	Site ID Form	Manifest	Hazardous Waste Biennial Report
	ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC, AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.			
F007	SPENT CYANIDE PLATING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS.	YES	BOTH	BOTH
F008	PLATING BATH RESIDUES FROM THE BOTTOM OF PLATING BATHS FROM ELECTROPLATING OPERATIONS IN WHICH CYANIDES ARE USED IN THE PROCESS.	YES	GENERATED	GENERATED
F009	SPENT STRIPPING AND CLEANING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS IN WHICH CYANIDES ARE USED IN THE PROCESS.	YES	BOTH	BOTH
F010	QUENCHING BATH RESIDUES FROM OIL BATHS FROM METAL HEAT TREATING OPERATIONS IN WHICH CYANIDES ARE USED IN THE PROCESS.	YES	GENERATED	GENERATED
F011	SPENT CYANIDE SOLUTIONS FROM SLAT BATH POT CLEANING FROM METAL HEAT TREATING OPERATIONS.	YES	GENERATED	GENERATED
F012	QUENCHING WASTEWATER TREATMENT SLUDGES FROM METAL HEAT TREATING OPERATIONS IN WHICH CYANIDES ARE USED IN THE PROCESS.	YES	GENERATED	GENERATED
F019	WASTEWATER TREATMENT SLUDGES FROM THE CHEMICAL CONVERSION COATING OF ALUMINUM, EXCEPT FROM ZIRCONIUM PHOSPHATING IN ALUMINUM CAN WASHING WHEN SUCH PHOSPHATING IS AN EXCLUSIVE CONVERSION COATING PROCESS.	YES	BOTH	BOTH

Code	Description	Site ID Form	Manifest	Hazardous Waste Biennial Report
F020	WASTES (EXCEPT WASTEWATER AND SPENT CARBON FROM HYDROGEN CHLORIDE PURIFICATION) FROM THE PRODUCTION OR MANUFACTURING USE (AS A REACTANT, CHEMICAL INTERMEDIATE, OR COMPONENT IN A FORMULATING PROCESS) OF TRI- OR TETRACHLOROPHENOL OR OF INTERMEDIATES USED TO PRODUCE THEIR PESTICIDE DERIVATIVES. (THIS LISTING DOES NOT INCLUDE WASTES FROM THE PRODUCTION OF HEXACHLOROPHENE FROM HIGHLY PURIFIED 2,4,5-TRICHLOROPHENOL.)	YES	NO	NO
F021	WASTES (EXCEPT WASTEWATER AND SPENT CARBON FROM HYDROGEN CHLORIDE PURIFICATION) FROM THE PRODUCTION OR MANUFACTURING USE (AS A REACTANT, CHEMICAL INTERMEDIATE, OR COMPONENT IN A FORMULATING PROCESS) OF PENTACHLOROPHENOL, OR OF INTERMEDIATES USED TO PRODUCE DERIVATIVES.	YES	NO	NO
F022	WASTES (EXCEPT WASTEWATER AND SPENT CARBON FROM HYDROGEN CHLORIDE PURIFICATION) FROM THE MANUFACTURING USE (AS A REACTANT, CHEMICAL INTERMEDIATE, OR COMPONENT IN A FORMULATING PROCESS) OF TETRA-, PENTA-, OR HEXACHLOROBENZENES UNDER ALKALINE CONDITIONS.	YES	NO	NO
F023	WASTES (EXCEPT WASTEWATER AND SPENT CARBON FROM HYDROGEN CHLORIDE PURIFICATION) FROM THE PRODUCTION OF MATERIALS ON EQUIPMENT PREVIOUSLY USED FOR THE PRODUCTION OR MANUFACTURING USE (AS A REACTANT, CHEMICAL INTERMEDIATE, OR COMPONENT IN A FORMULATING PROCESS) OF TRI- AND TETRACHLOROPHENOLS. (THIS LISTING DOES NOT INCLUDE WASTES FROM EQUIPMENT USED ONLY FOR THE PRODUCTION OR USE OF HEXACHLOROPHENE FROM HIGHLY PURIFIED 2,4,5-TRICHLOROPHENOL.)	YES	NO	NO

Code	Description	Site ID Form	Manifest	Hazardous Waste Biennial Report
F024	PROCESS WASTES INCLUDING, BUT NOT LIMITED TO, DISTILLATION RESIDUES, HEAVY ENDS, TARS, AND REACTOR CLEAN-OUT WASTES FROM THE PRODUCTION OF CERTAIN CHLORINATED ALIPHATIC HYDROCARBONS BY FREE RADICAL CATALYZED PROCESSES. THESE CHLORINATED ALIPHATIC HYDROCARBONS ARE THOSE HAVING CARBON CHAIN LENGTHS RANGING FROM ONE TO, AND INCLUDING FIVE, WITH VARYING AMOUNTS AND POSITIONS OF CHLORINE SUBSTITUTION. (THIS LISTING DOES NOT INCLUDE WASTEWATERS, WASTEWATER TREATMENT SLUDGE, SPENT CATALYSTS, AND WASTES LISTED IN SECTIONS 261.31. OR 261.32)	YES	GENERATED	NO
F025	CONDENSED LIGHT ENDS, SPENT FILTERS AND FILTER AIDS, AND SPENT DESICCANT WASTES FROM THE PRODUCTION OF CERTAIN CHLORINATED ALIPHATIC HYDROCARBONS BY FREE RADICAL CATALYZED PROCESSES. THESE CHLORINATED ALIPHATIC HYDROCARBONS ARE THOSE HAVING CARBON CHAIN LENGTHS RANGING FROM ONE TO, AND INCLUDING FIVE, WITH VARYING AMOUNTS AND POSITIONS OF CHLORINE SUBSTITUTION.	YES	GENERATED	NO
F026	WASTES (EXCEPT WASTEWATER AND SPENT CARBON FROM HYDROGEN CHLORIDE PURIFICATION) FROM THE PRODUCTION OF MATERIALS ON EQUIPMENT PREVIOUSLY USED FOR THE MANUFACTURING USE (AS A REACTANT, CHEMICAL INTERMEDIATE, OR COMPONENT IN A FORMULATING PROCESS) OF TETRA-, PENTA-, OR HEXACHLOROBENZENE UNDER ALKALINE CONDITIONS.	YES	NO	NO

Code	Description	Site ID Form	Manifest	Hazardous Waste Biennial Report
F027	DISCARDED UNUSED FORMULATIONS CONTAINING TRI-, TETRA-, OR PENTACHLOROPHENOL OR DISCARDED UNUSED FORMULATIONS CONTAINING COMPOUNDS DERIVED FROM THESE CHLOROPHENOLS. (THIS LISTING DOES NOT INCLUDE FORMULATIONS CONTAINING HEXACHLOROPHENE SYNTHESIZED FROM PREPURIFIED 2,4,5-TRICHLOROPHENOL AS THE SOLE COMPONENT.)	YES	NO	NO
F028	RESIDUES RESULTING FROM THE INCINERATION OR THERMAL TREATMENT OF SOIL CONTAMINATED WITH EPA HAZARDOUS WASTE NOS. F020, F021, F022, F023, F026, AND F027.	YES	NO	NO
F032	WASTEWATERS, PROCESS RESIDUALS, PRESERVATIVE DRIPPAGE, AND SPENT FORMULATIONS FROM WOOD PRESERVING PROCESSES GENERATED AT PLANTS THAT CURRENTLY USE, OR HAVE PREVIOUSLY USED, CHLOROPHENOLIC FORMULATIONS [EXCEPT POTENTIALLY CROSS-CONTAMINATED WASTES THAT HAVE HAD THE F032 WASTE CODE DELETED IN ACCORDANCE WITH SECTION 261.35 (I.E., THE NEWLY PROMULGATED EQUIPMENT CLEANING OR REPLACEMENT STANDARDS), AND WHERE THE GENERATOR DOES NOT RESUME OR INITIATE USE OF CHLOROPHENOLIC FORMULATIONS]. (THIS LISTING DOES NOT INCLUDE K001 BOTTOM SEDIMENT SLUDGE FROM THE TREATMENT OF WASTEWATER FROM WOOD PRESERVING PROCESSES THAT USE CREOSOTE AND/OR PENTACHLOROPHENOL.)	YES	NO	NO

Code	Description	Site ID Form	Manifest	Hazardous Waste Biennial Report
F034	WASTEWATERS, PROCESS RESIDUALS, PRESERVATIVE DRIPPAGE, AND SPENT FORMULATIONS FROM WOOD PRESERVING PROCESSES GENERATED AT PLANTS THAT USE CREOSOTE FORMULATIONS. THIS LISTING DOES NOT INCLUDE K001 BOTTOM SEDIMENT SLUDGE FROM THE TREATMENT OF WASTEWATER FROM WOOD PRESERVING PROCESSES THAT USE CREOSOTE AND/OR PENTACHLOROPHENOL.	YES	GENERATED	NO
F035	WASTEWATERS, PROCESS RESIDUALS, PRESERVATIVE DRIPPAGE, AND SPENT FORMULATIONS FROM WOOD PRESERVING PROCESSES GENERATED AT PLANTS THAT USE INORGANIC PRESERVATIVES CONTAINING ARSENIC OR CHROMIUM. THIS LISTING DOES NOT INCLUDE K001 BOTTOM SEDIMENT SLUDGE FROM THE TREATMENT OF WASTEWATER FROM WOOD PRESERVING PROCESSES THAT USE CREOSOTE AND/OR PENTACHLOROPHENOL.	YES	GENERATED	NO
F037	PETROLEUM REFINERY PRIMARY OIL/WATER/SOLIDS SEPARATION SLUDGE - ANY SLUDGE GENERATED FROM THE GRAVITATIONAL SEPARATION OF OIL/WATER/SOLIDS DURING THE STORAGE OR TREATMENT OF PROCESS WASTEWATERS AND OILY COOLING WASTEWATERS FROM PETROLEUM REFINERIES. SUCH SLUDGES INCLUDE, BUT ARE NOT LIMITED TO, THOSE GENERATED IN OIL/WATER/SOLIDS SEPARATORS; TANKS AND IMPOUNDMENTS; DITCHES AND OTHER CONVEYANCES; SUMPS; AND STORM WATER UNITS RECEIVING DRY WEATHER FLOW. SLUDGES GENERATED IN STORM WATER UNITS THAT DO NOT RECEIVE DRY WEATHER FLOW, SLUDGES GENERATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS AS DEFINED IN SECTION 261.31(B)(2) (INCLUDING SLUDGES GENERATED IN ONE OR MORE ADDITIONAL UNITS AFTER WASTEWATERS HAVE BEEN TREATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS), AND K051 WASTES ARE EXEMPTED FROM THIS LISTING.	YES	GENERATED	NO

Code	Description	Site ID Form	Manifest	Hazardous Waste Biennial Report
F038	PETROLEUM REFINERY SECONDARY (EMULSIFIED) OIL/WATER/SOLIDS SEPARATION SLUDGE - ANY SLUDGE AND/OR FLOAT GENERATED FROM THE PHYSICAL AND/OR CHEMICAL SEPARATION OF OIL/WATER/SOLIDS IN PROCESS WASTEWATERS AND OILY COOLING WASTEWATERS FROM PETROLEUM REFINERIES. SUCH WASTES INCLUDE, BUT ARE NOT LIMITED TO, ALL SLUDGES AND FLOATS GENERATED IN INDUCED AIR FLOTATION (IAF) UNITS, TANKS AND IMPOUNDMENTS, AND ALL SLUDGES GENERATED IN DAF UNITS. SLUDGES GENERATED IN STORMWATER UNITS THAT DO NOT RECEIVE DRY WEATHER FLOW, SLUDGES GENERATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS AS DEFINED IN SECTION 261.31(B)(2) (INCLUDING SLUDGES GENERATED IN ONE OR MORE ADDITIONAL UNITS AFTER WASTEWATERS HAVE BEEN TREATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS), AND F037, K048, AND K051 WASTES ARE EXEMPTED FROM THIS LISTING.	YES	GENERATED	NO
F039	LEACHATE RESULTING FROM THE TREATMENT, STORAGE, OR DISPOSAL OF WASTES CLASSIFIED BY MORE THAN ONE WASTE CODE UNDER SUBPART D, OR FROM A MIXTURE OF WASTES CLASSIFIED UNDER SUBPARTS C AND D OF THIS PART. (LEACHATE RESULTING FROM THE MANAGEMENT OF ONE OR MORE OF THE FOLLOWING EPA HAZARDOUS WASTES AND NO OTHER HAZARDOUS WASTES RETAINS ITS HAZARDOUS WASTE CODE(S): F020, F021, F022, F023, F026, F027, AND/OR F028.)	YES	GENERATED	NO
K001	BOTTOM SEDIMENT SLUDGE FROM THE TREATMENT OF WASTEWATERS FROM WOOD PRESERVING PROCESSES THAT USE CREOSOTE AND/OR PENTACHLOROPHENOL.	YES	GENERATED	NO
K002	WASTEWATER TREATMENT SLUDGE FROM THE PRODUCTION OF CHROME YELLOW AND ORANGE PIGMENTS.	YES	NO	NO

Code	Description	Site ID Form	Manifest	Hazardous Waste Biennial Report
K003	WASTEWATER TREATMENT SLUDGE FROM THE PRODUCTION OF MOLYBDATE ORANGE PIGMENTS.	YES	NO	NO
K004	WASTEWATER TREATMENT SLUDGE FROM THE PRODUCTION OF ZINC YELLOW PIGMENTS.	YES	NO	NO
K005	WASTEWATER TREATMENT SLUDGE FROM THE PRODUCTION OF CHROME GREEN PIGMENTS.	YES	NO	NO
K006	WASTEWATER TREATMENT SLUDGE FROM THE PRODUCTION OF CHROME OXIDE GREEN PIGMENTS (ANHYDROUS AND HYDRATED).	YES	NO	NO
K007	WASTEWATER TREATMENT SLUDGE FROM THE PRODUCTION OF IRON BLUE PIGMENTS.	YES	NO	NO
K008	OVEN RESIDUE FROM THE PRODUCTION OF CHROME OXIDE GREEN PIGMENTS.	YES	NO	NO
K009	DISTILLATION BOTTOMS FROM THE PRODUCTION OF ACETALDEHYDE FROM ETHYLENE.	YES	NO	NO
K010	DISTILLATION SIDE CUTS FROM THE PRODUCTION OF ACETALDEHYDE FROM ETHYLENE.	YES	GENERATED	NO
K011	BOTTOM STREAM FROM THE WASTEWATER STRIPPER IN THE PRODUCTION OF ACRYLONITRILE.	YES	GENERATED	NO

Code	Description	Site ID Form	Manifest	Hazardous Waste Biennial Report
K013	BOTTOM STREAM FROM THE ACETONITRILE COLUMN IN THE PRODUCTION OF ACRYLONITRILE.	YES	GENERATED	NO
K014	BOTTOMS FROM THE ACETONITRILE PURIFICATION COLUMN IN THE PRODUCTION OF ACRYLONITRILE.	YES	GENERATED	NO
K015	STILL BOTTOMS FROM THE DISTILLATION OF BENZYL CHLORIDE.	YES	GENERATED	NO
K016	HEAVY ENDS OR DISTILLATION RESIDUES FROM THE PRODUCTION OF CARBON TETRACHLORIDE.	YES	GENERATED	NO
K017	HEAVY ENDS (STILL BOTTOMS) FROM THE PURIFICATION COLUMN IN THE PRODUCTION OF EPICHLOROHYDRIN.	YES	GENERATED	NO
K018	HEAVY ENDS FROM THE FRACTIONATION COLUMN IN ETHYL CHLORIDE PRODUCTION.	YES	GENERATED	NO
K019	HEAVY ENDS FROM THE DISTILLATION OF ETHYLENE DICHLORIDE IN ETHYLENE DICHLORIDE PRODUCTION.	YES	GENERATED	NO
K020	HEAVY ENDS FROM THE DISTILLATION OF VINYL CHLORIDE IN VINYL CHLORIDE MONOMER PRODUCTION.	YES	GENERATED	NO
K021	AQUEOUS SPENT ANTIMONY CATALYST WASTE FROM FLUOROMETHANE PRODUCTION.	YES	GENERATED	NO
K022	DISTILLATION BOTTOM TARS FROM THE PRODUCTION OF PHENOL/ACETONE FROM CUMENE.	YES	GENERATED	NO

Code	Description	Site ID Form	Manifest	Hazardous Waste Biennial Report
K023	DISTILLATION LIGHT ENDS FROM THE PRODUCTION OF PHTHALIC ANHYDRIDE FROM NAPHTHALENE.	YES	NO	NO
K024	DISTILLATION BOTTOMS FROM THE PRODUCTION OF PHTHALIC ANHYDRIDE FROM NAPHTHALENE.	YES	NO	NO
K025	DISTILLATION BOTTOMS FROM THE PRODUCTION OF NITROBENZENE BY THE NITRATION OF BENZENE.	YES	GENERATED	NO
K026	STRIPPING STILL TAILS FROM THE PRODUCTION OF METHYL ETHYL PYRIDINES.	YES	GENERATED	NO
K027	CENTRIFUGE AND DISTILLATION RESIDUES FROM TOLUENE DIISOCYANATE PRODUCTION.	YES	GENERATED	NO
K028	SPENT CATALYST FROM THE HYDROCHLORINATOR REACTOR IN THE PRODUCTION OF 1,1,1-TRICHLOROETHANE.	YES	GENERATED	NO
K029	WASTE FROM THE PRODUCT STEAM STRIPPER IN THE PRODUCTION OF 1,1,1-TRICHLOROETHANE.	YES	GENERATED	NO
K030	COLUMN BOTTOMS OR HEAVY ENDS FROM THE COMBINED PRODUCTION OF TRICHLOROETHYLENE AND PERCHLOROETHYLENE.	YES	GENERATED	NO
K031	BY-PRODUCT SALTS GENERATED IN THE PRODUCTION OF MSMA AND CACODYLIC ACID.	YES	GENERATED	NO

Code	Description	Site ID Form	Manifest	Hazardous Waste Biennial Report
K032	WASTEWATER TREATMENT SLUDGE FROM THE PRODUCTION OF CHLORDANE.	YES	NO	NO
K033	WASTEWATER AND SCRUB WATER FROM THE CHLORINATION OF CYCLOPENTADIENE IN THE PRODUCTION OF CHLORDANE.	YES	NO	NO
K034	FILTER SOLIDS FROM THE FILTRATION OF HEXACHLOROCYCLOPENTADIENE IN THE PRODUCTION OF CHLORDANE.	YES	NO	NO
K035	WASTEWATER TREATMENT SLUDGES GENERATED IN THE PRODUCTION OF CREOSOTE.	YES	GENERATED	NO
K036	STILL BOTTOMS FROM TOLUENE RECLAMATION DISTILLATION IN THE PRODUCTION OF DISULFOTON.	YES	NO	NO
K037	WASTEWATER TREATMENT SLUDGES FROM THE PRODUCTION OF DISULFOTON.	YES	NO	NO
K038	WASTEWATER FROM THE WASHING AND STRIPPING OF PHORATE PRODUCTION.	YES	NO	NO
K039	FILTER CAKE FROM THE FILTRATION OF DIETHYLPHOSPHORODITHIOIC ACID IN THE PRODUCTION OF PHORATE.	YES	GENERATED	NO
K040	WASTEWATER TREATMENT SLUDGE FROM THE PRODUCTION OF PHORATE.	YES	GENERATED	NO

Code	Description	Site ID Form	Manifest	Hazardous Waste Biennial Report
K041	WASTEWATER TREATMENT SLUDGE FROM THE PRODUCTION OF TOXAPHENE.	YES	GENERATED	NO
K042	HEAVY ENDS OR DISTILLATION RESIDUES FROM THE DISTILLATION OF TETRACHLOROBENZENE IN THE PRODUCTION OF 2,4,5-T.	YES	NO	NO
K043	2,6-DICHLOROPHENOL WASTE FROM THE PRODUCTION OF 2,4-D.	YES	NO	NO
K044	WASTEWATER TREATMENT SLUDGES FROM THE MANUFACTURING AND PROCESSING OF EXPLOSIVES.	YES	NO	NO
K045	SPENT CARBON FROM THE TREATMENT OF WASTEWATER CONTAINING EXPLOSIVES.	YES	NO	NO
K046	WASTEWATER TREATMENT SLUDGES FROM THE MANUFACTURING, FORMULATION, AND LOADING OF LEAD-BASED INITIATING COMPOUNDS.	YES	NO	NO
K047	PINK/RED WATER FROM TNT OPERATIONS.	YES	NO	NO
K048	DISSOLVED AIR FLOTATION (DAF) FLOAT FROM THE PETROLEUM REFINING INDUSTRY.	YES	GENERATED	NO
K049	SLOP OIL EMULSION SOLIDS FROM THE PETROLEUM REFINING INDUSTRY.	YES	GENERATED	NO
K050	HEAT EXCHANGER BUNDLE CLEANING SLUDGE FROM THE PETROLEUM REFINING INDUSTRY.	YES	GENERATED	NO
K051	API SEPARATOR SLUDGE FROM THE PETROLEUM REFINING INDUSTRY.	YES	GENERATED	NO

Code	Description	Site ID Form	Manifest	Hazardous Waste Biennial Report
K052	TANK BOTTOMS (LEADED) FROM THE PETROLEUM REFINING INDUSTRY.	YES	GENERATED	NO
K060	AMMONIA STILL LIME SLUDGE FROM COKING OPERATIONS.	YES	GENERATED	NO
K061	EMISSION CONTROL DUST/SLUDGE FROM THE PRIMARY PRODUCTION OF STEEL IN ELECTRIC FURNACES.	YES	GENERATED	NO
K062	SPENT PICKLE LIQUOR FROM STEEL FINISHING OPERATIONS OF PLANTS THAT PRODUCE IRON OR STEEL.	YES	GENERATED	GENERATED
K069	EMISSION CONTROL DUST/SLUDGE FROM SECONDARY LEAD SMELTING.	YES	GENERATED	NO
K071	BRINE PURIFICATION MUDS FROM THE MERCURY CELL PROCESS IN CHLORINE PRODUCTION, IN WHICH SEPARATELY PREPURIFIED BRINE IS NOT USED.	YES	NO	NO
K073	CHLORINATED HYDROCARBON WASTE FROM THE PURIFICATION STEP OF THE DIAPHRAGM CELL PROCESS USING GRAPHITE ANODES IN CHLORINE PRODUCTION.	YES	GENERATED	NO
K083	DISTILLATION BOTTOMS FROM ANILINE PRODUCTION.	YES	GENERATED	NO
K084	WASTEWATER TREATMENT SLUDGES GENERATED DURING THE PRODUCTION OF VETERINARY PHARMACEUTICALS FROM ARSENIC OR ORGANO-ARSENIC COMPOUNDS.	YES	GENERATED	NO
K085	DISTILLATION OR FRACTIONATION COLUMN BOTTOMS FROM THE PRODUCTION OF CHLOROBENZENES.	YES	GENERATED	NO

Code	Description	Site ID Form	Manifest	Hazardous Waste Biennial Report
K086	SOLVENT WASHES AND SLUDGES, CAUSTIC WASHES AND SLUDGES, OR WATER WASHES AND SLUDGES FROM CLEANING TUBS AND EQUIPMENT USED IN THE FORMULATION OF INK FROM PIGMENTS, DRIERS, SOAPS, AND STABILIZERS CONTAINING CHROMIUM AND LEAD.	YES	GENERATED	NO
K087	DECANTER TANK TAR SLUDGE FROM COKING OPERATIONS.	YES	GENERATED	NO
K088	SPENT POTLINERS FROM PRIMARY ALUMINUM REDUCTION.	YES	NO	NO
K093	DISTILLATION LIGHT ENDS FROM THE PRODUCTION OF PHTHALIC ANHYDRIDE FROM ORTHO-XYLENE.	YES	GENERATED	NO
K094	DISTILLATION BOTTOMS FROM THE PRODUCTION OF PHTHALIC ANHYDRIDE FROM ORTHO-XYLENE.	YES	GENERATED	NO
K095	DISTILLATION BOTTOMS FROM THE PRODUCTION OF 1,1,1-TRICHLOROETHANE.	YES	GENERATED	NO
K096	HEAVY ENDS FROM THE HEAVY ENDS COLUMN FROM THE PRODUCTION OF 1,1,1-TRICHLOROETHANE.	YES	GENERATED	NO
K097	VACUUM STRIPPER DISCHARGE FROM THE CHLORDANE CHLORINATOR IN THE PRODUCTION OF CHLORDANE.	YES	NO	NO
K098	UNTREATED PROCESS WASTEWATER FROM THE PRODUCTION OF TOXAPHENE.	YES	GENERATED	NO
K099	UNTREATED WASTEWATER FROM THE PRODUCTION OF 2,4-D.	YES	NO	NO

Code	Description	Site ID Form	Manifest	Hazardous Waste Biennial Report
K100	WASTE LEACHING SOLUTION FROM ACID LEACHING OF EMISSION CONTROL DUST/SLUDGE FROM SECONDARY LEAD SMELTING.	YES	NO	NO
K101	DISTILLATION TAR RESIDUES FROM THE DISTILLATION OF ANILINE-BASED COMPOUNDS IN THE PRODUCTION OF VETERINARY PHARMACEUTICALS FROM ARSENIC OR ORGANO-ARSENIC COMPOUNDS.	YES	NO	NO
K102	RESIDUE FROM THE USE OF ACTIVATED CARBON FOR DECOLORIZATION IN THE PRODUCTION OF VETERINARY PHARMACEUTICALS FROM ARSENIC OR ORGANO-ARSENIC COMPOUNDS.	YES	NO	NO
K103	PROCESS RESIDUES FROM ANILINE EXTRACTION FROM THE PRODUCTION OF ANILINE.	YES	GENERATED	NO
K104	COMBINED WASTEWATERS GENERATED FROM NITROBENZENE/ANILINE PRODUCTION.	YES	GENERATED	NO
K105	SEPARATED AQUEOUS STREAM FROM THE REACTOR PRODUCT WASHING STEP IN THE PRODUCTION OF CHLOROBENZENES.	YES	GENERATED	NO
K106	WASTEWATER TREATMENT SLUDGE FROM THE MERCURY CELL PROCESS IN CHLORINE PRODUCTION.	YES	NO	NO
K107	COLUMN BOTTOMS FROM PRODUCT SEPARATION FROM THE PRODUCTION OF 1,1-DIMETHYLHYDRAZINE (UDMH) FROM CARBOXYLIC ACID HYDRAZIDES.	YES	NO	NO
K108	CONDENSED COLUMN OVERHEADS FROM PRODUCT SEPARATION AND CONDENSED REACTOR VENT GASES FROM THE PRODUCTION OF 1,1-	YES	NO	NO

Code	Description	Site ID Form	Manifest	Hazardous Waste Biennial Report
	DIMETHYLHYDRAZINE FROM CARBOXYLIC ACID HYDRAZIDES.			
K109	SPENT FILTER CARTRIDGES FROM PRODUCT PURIFICATION FROM THE PRODUCT OF 1,1-DIMETHYLHYDRAZINE FROM CARBOXYLIC ACID HYDRAZIDES.	YES	NO	NO
K110	CONDENSED COLUMN OVERHEADS FROM INTERMEDIATE SEPARATION FROM THE PRODUCTION OF 1,1-DIMETHYLHYDRAZINE FROM CARBOXYLIC ACID HYDRAZIDES.	YES	NO	NO
K111	PRODUCT WASHWATERS FROM THE PRODUCTION OF DINITROTOLUENE VIA NITRATION OF TOLUENE.	YES	GENERATED	NO
K112	REACTION BY-PRODUCT WATER FROM THE DRYING COLUMN IN THE PRODUCTION OF TOLUENEDIAMINE VIA HYDROGENATION OF DINITROTOLUENE.	YES	GENERATED	NO
K113	CONDENSED LIQUID LIGHT ENDS FROM PURIFICATION OF TOLUENEDIAMINE IN PRODUCTION OF TOLUENEDIAMINE VIA HYDROGENATION OF DINITROTOLUENE.	YES	GENERATED	NO
K114	VICINALS FROM THE PURIFICATION OF TOLUENEDIAMINE IN PRODUCTION OF TOLUENEDIAMINE VIA HYDROGENATION OF DINITROTOLUENE.	YES	GENERATED	NO
K115	HEAVY ENDS FROM PURIFICATION OF TOLUENEDIAMINE IN THE PRODUCTION OF TOLUENEDIAMINE VIA HYDROGENATION OF DINITROTOLUENE.	YES	GENERATED	NO

Code	Description	Site ID Form	Manifest	Hazardous Waste Biennial Report
K116	ORGANIC CONDENSATE FROM THE SOLVENT RECOVERY COLUMN IN THE PRODUCTION OF TOLUENE DIISOCYANATE VIA PHOSGENATION OF TOLUENEDIAMINE.	YES	NO	NO
K117	WASTEWATER FROM THE REACTOR VENT GAS SCRUBBER IN THE PRODUCTION OF ETHYLENE DIBROMIDE VIA BROMINATION OF ETHENE.	YES	NO	NO
K118	SPENT ADSORBENT SOLIDS FROM PURIFICATION OF ETHYLENE DIBROMIDE IN THE PRODUCTION OF ETHYLENE DIBROMIDE VIA BROMINATION OF ETHENE.	YES	GENERATED	NO
K123	PROCESS WASTEWATER (INCLUDING SUPERNATES, FILTRATES, AND WASHWATERS) FROM THE PRODUCTION OF ETHYLENEBISDITHIOCARBAMIC ACID AND ITS SALTS.	YES	NO	NO
K124	REACTOR VENT SCRUBBER WATER FROM THE PRODUCTION OF ETHYLENEBISDITHIOCARBAMIC ACID AND ITS SALTS.	YES	NO	NO
K125	FILTRATION, EVAPORATION, AND CENTRIFUGATION SOLIDS FROM THE PRODUCTION OF ETHYLENEBISDITHIOCARBAMIC ACID AND ITS SALTS.	YES	NO	NO
K126	BAGHOUSE DUST AND FLOOR SWEEPINGS IN MILLING AND PACKAGING OPERATIONS FROM PRODUCTION OR FORMULATION OF ETHYLENEBISDITHIOCARBAMIC ACID AND ITS SALTS.	YES	NO	NO
K131	WASTEWATER FROM THE REACTOR AND SPENT SULFURIC ACID FROM THE ACID DRYER FROM THE PRODUCTION OF METHYL BROMIDE.	YES	NO	NO

Code	Description	Site ID Form	Manifest	Hazardous Waste Biennial Report
K132	SPENT ABSORBENT AND WASTEWATER SEPARATOR SOLIDS FROM THE PRODUCTION OF METHYL BROMIDE.	YES	NO	NO
K136	STILL BOTTOMS FROM THE PURIFICATION OF ETHYLENE DIBROMIDE IN THE PRODUCTION OF ETHYLENE DIBROMIDE VIA BROMINATION OF ETHENE.	YES	NO	NO
K141	PROCESS RESIDUES FROM THE RECOVERY OF COAL TAR, INCLUDING, BUT NOT LIMITED TO, TAR COLLECTING SUMP RESIDUES FROM THE PRODUCTION OF COKE FROM COAL OR THE RECOVERY OF COKE BY-PRODUCTS PRODUCED FROM COAL. THIS LISTING DOES NOT INCLUDE K087 (DECANTER TANK SLUDGE FROM COKING OPERATIONS).	YES	GENERATED	NO
K142	TANK STORAGE RESIDUES FROM THE PRODUCTION OF COKE FROM COAL OR FROM THE RECOVERY OF COKE BY-PRODUCTS FROM COAL.	YES	GENERATED	NO
K143	PROCESS RESIDUES FROM THE RECOVERY OF LIGHT OIL, INCLUDING, BUT NOT LIMITED TO, THOSE GENERATED IN STILLS, DECANTERS, AND WASH OIL RECOVERY UNITS FROM THE RECOVERY OF COKE BY-PRODUCTS PRODUCED FROM COAL.	YES	GENERATED	NO
K144	WASTEWATER SUMP RESIDUES FROM LIGHT OIL REFINING, INCLUDING, BUT NOT LIMITED TO, INTERCEPTING OR CONTAMINATION SUMP SLUDGES FROM THE RECOVERY OF COKE BY-PRODUCTS PRODUCED FROM COAL.	YES	GENERATED	NO
K145	RESIDUES FROM NAPHTHALENE COLLECTION AND RECOVERY OPERATIONS FROM THE RECOVERY OF COKE BY-PRODUCTS PRODUCED FROM COAL.	YES	GENERATED	NO

Code	Description	Site ID Form	Manifest	Hazardous Waste Biennial Report
K147	TAR STORAGE RESIDUES FROM COAL TAR REFINING.	YES	GENERATED	NO
K148	RESIDUES FROM COAL TAR DISTILLATION, INCLUDING, BUT NOT LIMITED TO, STILL BOTTOMS.	YES	GENERATED	NO
K149	DISTILLATION BOTTOMS FROM THE PRODUCTION OF ALPHA (OR METHYL-) CHLORINATED TOLUNES, RING-CHLORINATED TOLUNES, BENZOYL CHLORIDES, AND COMPOUNDS WITH MIXTURES OF THESE FUNCTIONAL GROUPS. [THIS WASTE DOES NOT INCLUDE STILL BOTTOMS FROM THE DISTILLATION OF BENZOYL CHLORIDE]	YES	GENERATED	NO
K150	ORGANIC RESIDULES EXCLUDING SPENT CARBON ADSORBENT, FROM THE SPENT CHLORINE GAS AND HYDROCHLORIC ACID RECOVERY PROCESSES ASSOCIATED WITH THE PRODUCTION OF ALPHA (OR METHYL-) CHLORINATED TOLUNES, BENZOYL CHLORIDES, AND COMPOUNDS WITH MIXTURES OF THESE FUNCTIONAL GROUPS.	YES	GENERATED	NO
K151	WASTEWATER TREATMENT SLUDGES, EXCLUDING NEUTRALIZATION AND BIOLOGICAL SLUDGES, GENERATED DURING THE TREATMENT OF WASTEWATERS FROM THE PRODUCTION OF ALPHA (OR METHYL-) CHLORINATED TOLUNES, BENZOYL CHLORIDES, AND COMPOUNDS WITH MIXTURES OF THESE FUNCTIONAL GROUPS.	YES	GENERATED	NO
K156	ORGANIC WASTE (INCLUDING HEAVY ENDS, STILL BOTTOMS, LIGHT ENDS, SPENT SOLVENTS, FILTRATES, AND DECANTATES) FROM THE PRODUCTION OF CARBAMATES AND CARBAMOYL OXIMES.	YES	NO	NO
K157	WASTEWATERS (INCLUDING SCRUBBER WATERS, CONDENSER WATERS, WASHWATERS, AND SEPARATION WATERS) FROM THE PRODUCTION OF	YES	NO	NO

Code	Description	Site ID Form	Manifest	Hazardous Waste Biennial Report
	CARBAMATES AND CARBAMOYL OXIMES.			
K158	BAG HOUSE DUSTS AND FILTER/SEPARATION SOLIDS FROM THE PRODUCTION OF CARBAMATES AND CARBAMOYL OXIMES.	YES	NO	NO
K159	ORGANICS FROM THE TREATMENT OF THIOCARBAMATE WASTES.	YES	NO	NO
K161	PURIFICATION SOLIDS (INCLUDING FILTRATION, EVAPORATION, AND CENTRIFUGATION SOLIDS), BAG HOUSE DUST AND FLOOR SWEEPINGS FROM THE PRODUCTION OF DITHIOCARBAMATE ACIDS AND THEIR SALTS. (THIS LISTING DOES NOT INCLUDE K125 OR K126).	YES	NO	NO
K169	CRUDE OIL STORAGE TANK SEDIMENT FROM PETROLEUM REFINING OPERATIONS	YES	GENERATED	NO
K170	CLARIFIED SLURRY OIL TANK SEDIMENT AND/OR IN-LINE FILTER/SEPARATION SOLIDS FROM PETROLEUM REFINING OPERATIONS	YES	GENERATED	NO
K171	SPENT HYDROTREATING CATALYST FROM PETROLEUM REFINING OPERATIONS,INCLUDING GUARD BEDS USED TO DESULFURIZE FEEDS TO OTHER CATALYTIC REACTORS (THIS LISTING DOES NOT INCLUDE INERT SUPPORT MEDIA)	YES	GENERATED	NO
K172	SPENT HYDROREFINING CATALYST FROM PETROLEUM REFINING OPERATIONS, INCLUDING GUARD BEDS USED TO DESULFURIZE FEEDS TO OTHER CATALYTIC REACTORS (THIS LISTING DOES NOT INCLUDE INERT SUPPORT MEDIA)	YES	GENERATED	NO

Code	Description	Site ID Form	Manifest	Hazardous Waste Biennial Report
K174	WASTEWATER TREATMENT SLUDGES FROM THE PRODUCTION OF ETHLYENE DICHLORIDE OR VINYL CHLORIDE	YES	NO	NO
K175	WASTEWATER TREATMENT SLUDGE FROM THE PRODUCTION OF VINYL CHLORIDE MONOMER..	YES	NO	NO
K176	BAGHOUSE FILTERS FROM THE PRODUCTION OF ANTIMONY OXIDE, INCLUDING FILTERS FROM THE PRODUCTION OF INTERMEDIATES (E.G.,ANTIMONY METAL OR CRUDE ANTIMONY OXIDE)	YES	NO	NO
K177	SLAG FROM THE PRODUCTION OF ANTIMONY OXIDE THAT IS SPECULATIVELY ACCUMULATED OR DISPOSED,INCLUDING SLAG FROM THE PRODUCTION OF INTERMEDIATES (E.G.,ANTIMONY METAL OR CRUDE ANTIMONY OXIDE)	YES	NO	NO
K178	RESIDUES FROM MANUFACTURING AND MANUFACTURING-SITE STORAGE OF FERRIC CHLORIDE FROM ACIDS FORMED DURING THE PRODUCTION OF TITANIUM DIOXIDE USING THE CHLORIDE-ILMENITE PROCESS.	YES	NO	NO
K181	NONWASTEWATERS FROM THE PRODUCTION OF DYES AND/OR PIGMENTS.	YES	NO	NO
P001	2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3% (OR) WARFARIN, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%	YES	BOTH	NO
P002	1-ACETYL-2-THIOUREA (OR) ACETAMIDE, N-(AMINOTHIOXOMETHYL)-	YES	NO	NO

Code	Description	Site ID Form	Manifest	Hazardous Waste Biennial Report
P003	2-PROPENAL (OR) ACROLEIN	YES	NO	NO
P004	1,4,5,8-DIMETHANONAPHTHALENE, 1,2,3,4,10,10-HEXA-CHLORO-1,4,4A,5,8,8A,-HEXAHYDRO-, (1ALPHA, 4ALPHA, 4ABETA, 5ALPHA, 8ALPHA, 8ABETA)- (OR) ALDRIN	YES	GENERATED	NO
P005	2-PROPEN-1-OL (OR) ALLYL ALCOHOL	YES	GENERATED	NO
P006	ALUMINUM PHOSPHIDE (R,T)	YES	NO	NO
P007	3(2H)-ISOXAZOLONE, 5-(AMINOMETHYL)- (OR) 5-(AMINOMETHYL)-3-ISOXAZOLOL	YES	NO	NO
P008	4-AMINOPYRIDINE (OR) 4-PYRIDINAMINE	YES	GENERATED	NO
P009	AMMONIUM PICRATE (R) (OR) PHENOL, 2,4,6-TRINITRO-, AMMONIUM SALT (R)	YES	NO	NO
P010	ARSENIC ACID H3ASO4	YES	GENERATED	NO
P011	ARSENIC OXIDE AS2O5 (OR) ARSENIC PENTOXIDE	YES	GENERATED	NO
P012	ARSENIC OXIDE AS2O3 (OR) ARSENIC TRIOXIDE	YES	GENERATED	NO
P013	BARIUM CYANIDE	YES	GENERATED	NO
P014	BENZENETHIOL (OR) THIOPHENOL	YES	GENERATED	NO

Code	Description	Site ID Form	Manifest	Hazardous Waste Biennial Report
P015	BERYLLIUM	YES	NO	NO
P016	DICHLOROMETHYL ETHER (OR) METHANE, OXYBIS[CHLORO-	YES	NO	NO
P017	2-PROPANONE, 1-BROMO- (OR) BROMOACETONE	YES	GENERATED	NO
P018	BRUCINE (OR) STRYCHNIDIN-10-ONE, 2,3-DIMETHOXY-	YES	NO	NO
P020	DINOSEB (OR) PHENOL, 2-(1-METHYLPROPYL)-4,6-DINITRO-	YES	GENERATED	NO
P021	CALCIUM CYANIDE (OR) CALCIUM CYANIDE CA(CN)2	YES	GENERATED	NO
P022	CARBON DISULFIDE	YES	GENERATED	NO
P023	ACETALDEHYDE, CHLORO- (OR) CHLOROACETALDEHYDE	YES	GENERATED	NO
P024	BENZENAMINE, 4-CHLORO- (OR) P-CHLORANILINE	YES	GENERATED	NO
P026	1-(O-CHLOROPHENYL)THIOUREA (OR) THIOUREA, (2-CHLOROPHENYL)-	YES	GENERATED	NO
P027	3-CHLOROPROPIONITRILE (OR) PROPANENITRILE, 3-CHLORO-	YES	GENERATED	NO
P028	BENZENE, (CHLOROMETHYL)- (OR) BENZYL CHLORIDE	YES	GENERATED	NO
P029	COPPER CYANIDE (OR) COPPER CYANIDE CU(CN)	YES	GENERATED	NO
P030	CYANIDES (SOLUBLE CYANIDE SALTS), NOT OTHERWISE SPECIFIED	YES	GENERATED	NO

Code	Description	Site ID Form	Manifest	Hazardous Waste Biennial Report
P031	CYANOGEN (OR) ETHANEDINITRILE	YES	NO	NO
P033	CYANOGEN CHLORIDE (OR) CYANOGEN CHLORIDE (CN)CL	YES	NO	NO
P034	2-CYCLOHEXYL-4,6-DINITROPHENOL (OR) PHENOL, 2-CYCLOHEXYL-4,6-DINITRO-	YES	GENERATED	NO
P036	ARSONOUS DICHLORIDE, PHENYL- (OR) DICHLOROPHENYLARSINE	YES	NO	NO
P037	2,7:3,6-DIMETHANONAPHTH[2,3-B]OXIRENE, 3,4,5,6,9,9-HEXACHLORO-1A,2,2A,3,6,6A,7,7A-OCTAHYDRO-, (1AALPHA, 2BETA, 2AALPHA, 3BETA, 6BETA, 6AALPHA, 7BETA, 7AALPHA)- (OR) DIELDRIN	YES	GENERATED	NO
P038	ARSINE, DIETHYL- (OR) DIETHYLARSINE	YES	GENERATED	NO
P039	DISULFOTON (OR) PHOSPHORODITHIOIC ACID, O,O-DIETHYL S-[2-(ETHYLTHIO)ETHYL] ESTER	YES	GENERATED	NO
P040	O,O-DIETHYL O-PYRAZINYL PHOSPHOROTHIOATE (OR) PHOSPHOROTHIOIC ACID, O,O-DIETHYL O-PYRAZINYL ESTER	YES	GENERATED	NO
P041	DIETHYL-P-NITROPHENYL PHOSPHATE (OR) PHOSPHORIC ACID, DIETHYL 4-NITROPHENYL ESTER	YES	GENERATED	NO
P042	1,2-BENZENEDIOL, 4-[1-HYDROXY-2-(METHYLAMINO)ETHYL]-, (R)- (OR) EPINEPHRINE	YES	BOTH	NO

Code	Description	Site ID Form	Manifest	Hazardous Waste Biennial Report
P043	DIISOPROPYLFLUOROPHOSPHATE (DFP) (OR) PHOSPHOROFLUORIDIC ACID, BIS(1-METHYLETHYL) ESTER	YES	GENERATED	NO
P044	DIMETHOATE (OR) PHOSPHORODITHIOIC ACID, O,O-DIMETHYL S-[2-(METHYLAMINO)-2-OXOETHYL] ESTER	YES	GENERATED	NO
P045	2-BUTANONE, 3,3-DIMETHYL-1-(METHYLTHIO)-, O-[METHYLAMINO)CARBONYL] OXIME (OR) THIOFANOX	YES	GENERATED	NO
P046	ALPHA,ALPHA-DIMETHYLPHENETHYLAMINE (OR) BENZENEETHANAMINE, ALPHA, ALPHA-DIMETHYL-	YES	NO	NO
P047	4,6-DINITRO-O-CRESOL, & SALTS (OR) PHENOL, 2-METHYL-4,6-DINITRO-, & SALTS	YES	GENERATED	NO
P048	2,4-DINITROPHENOL (OR) PHENOL, 2,4-DINITRO-	YES	GENERATED	NO
P049	DITHIOBIURET (OR) THIOIMIDODICARBONIC DIAMIDE [(H2N)C(S)]2NH	YES	NO	NO
P050	6,9-METHANO-2,4,3-BENZODIOXATHIEPIN,6,7,8,9,10,10-HEXACHLORO-1,5,5A,6,9,9A-HEXAHYDRO-,3-OXIDE (OR) ENDOSULFAN	YES	GENERATED	NO
P051	2,7:3,6-DIMETHANONAPHTH[2,3-B]OXIRENE, 3,4,5,6,9,9-HEXACHLORO-1A,2,2A,3,6,6A,7,7A-OCTAHYDRO-, (1AALPHA, 2BETA, 2ABETA, 3ALPHA, 6ALPHA, 6ABETA, 7BETA, 7AALPHA)- & METABOLITES (OR) ENDRIN (OR) ENDRIN, & METABOLITES	YES	GENERATED	NO
P054	AZIRIDINE (OR) ETHYLENEIMINE	YES	GENERATED	NO

Code	Description	Site ID Form	Manifest	Hazardous Waste Biennial Report
P056	FLUORINE	YES	NO	NO
P057	ACETAMIDE, 2-FLUORO- (OR) FLUOROACETAMIDE	YES	GENERATED	NO
P058	ACETIC ACID, FLUORO-, SODIUM SALT (OR) FLUOROACETIC ACID, SODIUM SALT	YES	GENERATED	NO
P059	4,7-METHANO-1H-INDENE, 1,4,5,6,7,8,8-HEPTACHLORO-3A,4,7,7A-TETRAHYDRO- (OR) HEPTACHLOR	YES	GENERATED	NO
P060	1,4,5,8-DIMETHANONAPHTHALENE, 1,2,3,4,10,10-HEXA-CHLORO-1,4,4A,5,8,8A,-HEXAHYDRO-, (1ALPHA, 4ALPHA, 4ABETA, 5BETA, 8BETA, 8ABETA)- (OR) ISODRIN	YES	GENERATED	NO
P062	HEXAETHYL TETRAPHOSPHATE (OR) TETRAPHOSPHORIC ACID, HEXAETHYL ESTER	YES	GENERATED	NO
P063	HYDROCYANIC ACID (OR) HYDROGEN CYANIDE	YES	NO	NO
P064	METHANE, ISOCYANATO- (OR) METHYL ISOCYANATE	YES	NO	NO
P065	FULMINIC ACID, MERCURY(2+) SALT (R,T) (OR) MERCURY FULMINATE (R,T)	YES	NO	NO
P066	ETHANIMIDOTHIOIC ACID, N-[[(METHYLAMINO)CARBONYL]OXY]-, METHYL ESTER (OR) METHOMYL	YES	GENERATED	NO
P067	1,2-PROPYLENIMINE (OR) AZIRIDINE, 2-METHYL-	YES	GENERATED	NO

Code	Description	Site ID Form	Manifest	Hazardous Waste Biennial Report
P068	HYDRAZINE, METHYL- (OR) METHYL HYDRAZINE	YES	GENERATED	NO
P069	2-METHYLLACTONITRILE (OR) PROPANENITRILE, 2-HYDROXY-2-METHYL-	YES	GENERATED	NO
P070	ALDICARB (OR) PROPANAL, 2-METHYL-2-(METHYLTHIO)-, O-[(METHYLAMINO)CARBONYL]OXIME	YES	GENERATED	NO
P071	METHYL PARATHION (OR) PHOSPHOROTHIOIC ACID, O,O,-DIMETHYL O-(4-NITROPHENYL) ESTER	YES	GENERATED	NO
P072	ALPHA-NAPHTHYLTHIOUREA (OR) THIOUREA, 1-NAPHTHALENYL-	YES	GENERATED	NO
P073	NICKEL CARBONYL (OR) NICKEL CARBONYL NI(CO)4, (T-4)-	YES	NO	NO
P074	NICKEL CYANIDE (OR) NICKEL CYANIDE NI(CN)2	YES	GENERATED	NO
P075	NICOTINE, & SALTS (OR) PYRIDINE, 3-(1-METHYL-2-PYRROLIDINYL)-,(S)-, & SALTS	YES	BOTH	NO
P076	NITRIC OXIDE (OR) NITROGEN OXIDE NO	YES	NO	NO
P077	BENZENAMINE, 4-NITRO- (OR) P-NITROANILINE	YES	GENERATED	NO
P078	NITROGEN DIOXIDE (OR) NITROGEN OXIDE NO2	YES	GENERATED	NO
P081	1,2,3-PROPANETRIOL, TRINITRATE (R) (OR) NITROGLYCERINE (R)	YES	GENERATED	NO

Code	Description	Site ID Form	Manifest	Hazardous Waste Biennial Report
P082	METHANIMINE, N-METHYL-N-NITROSO- (OR) N-NITROSODIMETHYLAMINE	YES	GENERATED	NO
P084	N-NITROSOMETHYLVINYLAMINE (OR) VINYLAMINE, N-METHYL-N-NITROSO-	YES	GENERATED	NO
P085	DIPHOSPHORAMIDE, OCTAMETHYL- (OR) OCTAMETHYLPYROPHOSPHORAMIDE	YES	GENERATED	NO
P087	OSMIUM OXIDE OSO4, (T-4)- (OR) OSMIUM TETROXIDE	YES	GENERATED	NO
P088	7-OXABICYCLO[2.2.1]HEPTANE-2,3-DICARBOXYLIC ACID (OR) ENDOTHALL	YES	GENERATED	NO
P089	PARATHION (OR) PHOSPHOROTHIOIC ACID, O,O-DIETHYL-O-(4-NITROPHENYL) ESTER	YES	GENERATED	NO
P092	MERCURY, (ACETATO-O)PHENYL- (OR) PHENYLMERCURY ACETATE	YES	GENERATED	NO
P093	PHENYLTHIOUREA (OR) THIOUREA, PHENYL-	YES	GENERATED	NO
P094	PHORATE (OR) PHOSPHORODITHIOIC ACID, O,O-DIETHYL S-[(ETHYLTHIO)METHYL] ESTER	YES	GENERATED	NO
P095	CARBONIC DICHLORIDE (OR) PHOSGENE	YES	NO	NO
P096	HYDROGEN PHOSPHIDE (OR) PHOSPHINE	YES	NO	NO

Code	Description	Site ID Form	Manifest	Hazardous Waste Biennial Report
P097	FAMPHUR (OR) PHOSPHOROTHIOIC ACID O-[4-[(DIMETHYLAMINO)SULFONYL]PHENYL] O,O-DIMETHYL ESTER	YES	GENERATED	NO
P098	POTASSIUM CYANIDE (OR) POTASSIUM CYANIDE K(CN)	YES	GENERATED	NO
P099	ARGENTATE (1-), BIS(CYANO-C)-, POTASSIUM (OR) POTASSIUM SILVER CYANIDE	YES	GENERATED	NO
P101	ETHYL CYANIDE (OR) PROPANENITRILE	YES	NO	NO
P102	2-PROPYN-1-OL (OR) PROPARGYL ALCOHOL	YES	NO	NO
P103	SELENOUREA	YES	NO	NO
P104	SILVER CYANIDE (OR) SILVER CYANIDE AG(CN)	YES	GENERATED	NO
P105	SODIUM AZIDE	YES	GENERATED	NO
P106	SODIUM CYANIDE (OR) SODIUM CYANIDE NA(CN)	YES	GENERATED	NO
P108	STRYCHNIDIN-10-ONE, & SALTS (OR) STRYCHNINE, & SALTS	YES	GENERATED	NO
P109	TETRAETHYLDITHIOPYROPHOSPHATE (OR) THIODIPHOSPHORIC ACID, TETRAETHYL ESTER	YES	NO	NO
P110	PLUMBANE, TETRAETHYL- (OR) TETRAETHYL LEAD	YES	NO	NO

Code	Description	Site ID Form	Manifest	Hazardous Waste Biennial Report
P111	DIPHOSPHORIC ACID, TETRAETHYL ESTER (OR) TETRAETHYL PYROPHOSPHATE	YES	NO	NO
P112	METHANE, TETRANITRO- (R) (OR) TETRANITROMETHANE (R)	YES	NO	NO
P113	THALLIC OXIDE (OR) THALLIUM OXIDE TL2O3	YES	NO	NO
P114	SELENIOUS ACID, DITHALLIUM (1+) SALT (OR) THALLIUM(I) SELENITE	YES	NO	NO
P115	SULFURIC ACID, DITHALLIUM (1+) SALT (OR) THALLIUM(I) SULFATE	YES	NO	NO
P116	HYDRAZINECARBOTHIOAMIDE (OR) THIOSEMICARBAZIDE	YES	GENERATED	NO
P118	METHANETHIOL, TRICHLORO- (OR) TRICHLOROMETHANETHIOL	YES	NO	NO
P119	AMMONIUM VANADATE (OR) VANADIC ACID, AMMONIUM SALT	YES	NO	NO
P120	VANADIUM OXIDE V2O5 (OR) VANADIUM PENTOXIDE	YES	GENERATED	NO
P121	ZINC CYANIDE (OR) ZINC CYANIDE ZN(CN)2	YES	GENERATED	NO
P122	ZINC PHOSPHIDE ZN3P2, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 10% (R,T)	YES	NO	NO
P123	TOXAPHENE	YES	NO	NO

Code	Description	Site ID Form	Manifest	Hazardous Waste Biennial Report
P127	7-BENZOFURANOL, 2,3-DIHYDRO-2,2-DIMETHYL-, METHYLCARBAMATE (OR) CARBOFURAN	YES	NO	NO
P128	PHENOL, 4-(DIMETHYLAMINO)-3,5-DIMETHYL-, METHYLCARBAMATE (ESTER)	YES	NO	NO
P185	1,3-DITHIOLANE-2-CARBOXALDEHYDE, 2,4-DIMETHYL-, O-[(METHYLAMINO)-CARBONYL]OXIME (OR) TIRPATE	YES	NO	NO
P188	BENZOIC ACID, 2-HYDROXY-, COMPD. WITH (3AS-CIS)-1,2,3,3A,8,8A-HEXAHYDRO-1,3A,8-TRIMETHYLPYRROLO[2,3-B]INDOL-5-YL METHYLCARBAMATE ESTER (1:1) (OR) PHYSOSTIGMINE SALICYLATE	YES	GENERATED	NO
P189	CARBAMIC ACID, [(DIBUTYLAMINO)-THIO]METHYL-, 2,3-DIHYDRO-2,2-DIMETHYL -7-BENZOFURANYL ESTER (OR) CARBOSULFAN	YES	NO	NO
P190	CARBAMIC ACID, METHYL-, 3-METHYLPHENYL ESTER (OR) METOLCARB	YES	NO	NO
P191	CARBAMIC ACID, DIMETHYL-, 1-[(DIMETHYL-AMINO)CARBONYL]- 5-METHYL-1H- PYRAZOL-3-YL ESTER (OR) DIMETILAN	YES	NO	NO
P192	ISOLAN (OR) CARBAMIC ACID, DIMETHYL-, 3-METHY-L-(1-METHYLETHYL)-1H- PYRAZOL-5-YL ESTER	YES	NO	NO
P194	ETHANIMIDOTHIOC ACID, 2-(DIMETHYLAMINO)-N-[[(METHYLAMINO) CARBONYL]OXY]-2-OXO-, METHYL ESTER (OR) OXAMYL	YES	GENERATED	NO

Code	Description	Site ID Form	Manifest	Hazardous Waste Biennial Report
P196	MANGANESE DIMETHYLDITHIOCARBAMATE (OR) MANGANESE, BIS(DIMETHYLCARBAMODITHIOATO-S,S′)-,	YES	NO	NO
P197	FORMPARANATE (OR) METHANIMIDAMIDE, N,N-DIMETHYL-N′-[2-METHYL-4-[[(METHYLAMINO)CARBONYL]OXY]PHENYL]	YES	NO	NO
P198	METHANIMIDAMIDE, N,N-DIMETHYL-N′-[3-[[(METHYLAMINO)-CARBONYL]OXY]PHENYL]-, MONOHYDROCHLORIDE (OR) FORMETANATE HYDROCHLORIDE	YES	NO	NO
P199	METHIOCARB (OR) MEXACARBATE (OR) PHENOL, (3,5-DIMETHYL-4-(METHYLTHIO)-, METHYLCARBAMATE	YES	NO	NO
P201	PHENOL, 3-METHYL-5-(1-METHYLETHYL)-, METHYL CARBAMATE (OR) PROMECARB	YES	NO	NO
P202	M-CUMENYL METHYLCARBAMATE (OR) 3-ISOPROPYLPHENYL N-METHYLCARBAMATE (OR) PHENOL, 3-(1-METHYLETHYL)-, METHYL CARBAMATE	YES	NO	NO
P203	ALDICARB SULFONE (OR) PROPANAL, 2-METHYL-2-(METHYL-SULFONYL)-, O-[(METHYLAMINO)CARBONYL] OXIME	YES	NO	NO
P204	PHYSOSTIGMINE (OR) PYRROLO[2,3-B]INDOL-5-OL, 1,2,3,3A,8,8A-HEXAHYDRO-1,3A,8-TRIMETHYL-METHYLCARBAMATE (ESTER), (3AS-CIS)-	YES	GENERATED	NO
P205	ZINC, BIS(DIMETHYLCARBAMODITHIOATO-S,S′)-, (OR) ZIRAM	YES	NO	NO

Code	Description	Site ID Form	Manifest	Hazardous Waste Biennial Report
U001	ACETALDEHYDE (I) (OR) ETHANAL (I)	YES	GENERATED	NO
U002	2-PROPANONE (I) (OR) ACETONE (I)	YES	BOTH	NO
U003	ACETONITRILE (I,T)	YES	GENERATED	NO
U004	ACETOPHENONE (OR) ETHANONE, 1-PHENYL-	YES	GENERATED	NO
U005	2-ACETYLAMINOFLUORENE (OR) ACETAMIDE, N-9H-FLUOREN-2-YL	YES	GENERATED	NO
U006	ACETYL CHLORIDE (C,R,T)	YES	GENERATED	NO
U007	2-PROPENAMIDE (OR) ACRYLAMIDE	YES	GENERATED	NO
U008	2-PROPENOIC ACID (I) (OR) ACRYLIC ACID (I)	YES	GENERATED	NO
U009	2-PROPENENITRILE (OR) ACRYLONITRILE	YES	GENERATED	NO
U010	AZIRINO [2′,3′:3,4]PYRROLO[1,2-A]INDOLE-4,7-DIONE, 6-AMINO-8-[[(AMINOCARBONYL)OXY]METHYL]-1,1A,2,8,8A,8B-HEXAHYDRO-8A-METHOXY-5-METHYL-, [1AS-(1AALPHA, 8BETA, 8AALPHA, 8BALPHA)]- (OR) MITOMYCIN C	YES	BOTH	NO
U011	1H-1,2,4-TRIAZOL-3-AMINE (OR) AMITROLE	YES	GENERATED	NO
U012	ANILINE (I,T) (OR) BENZENAMINE (I,T)	YES	GENERATED	NO

Code	Description	Site ID Form	Manifest	Hazardous Waste Biennial Report
U014	AURAMINE (OR) BENZENAMINE, 4,4′-CARBONIMIDOYLBIS[N,N-DIMETHYL-	YES	GENERATED	NO
U015	AZASERINE (OR) L-SERINE, DIAZOACETATE (ESTER)	YES	GENERATED	NO
U016	BENZ[C]ACRIDINE	YES	GENERATED	NO
U017	BENZAL CHLORIDE (OR) BENZENE, (DICHLOROMETHYL)-	YES	GENERATED	NO
U018	BENZ[A]ANTHRACENE	YES	GENERATED	NO
U019	BENZENE (I,T)	YES	BOTH	NO
U020	BENZENESULFONIC ACID CHLORIDE (C,R) (OR) BENZENESULFONYL CHLORIDE (C,R)	YES	GENERATED	NO
U021	[1,1′-BIPHENYL]-4,4′-DIAMINE (OR) BENZIDINE	YES	GENERATED	NO
U022	BENZO[A]PYRENE	YES	GENERATED	NO
U023	BENZENE, (TRICHLOROMETHYL)- (OR) BENZOTRICHLORIDE (C,R,T)	YES	GENERATED	NO
U024	DICHLOROMETHOXY ETHANE (OR) ETHANE, 1,1′-[METHYLENEBIS(OXY)]BIS[2-CHLORO-	YES	GENERATED	NO
U025	DICHLOROETHYL ETHER (OR) ETHANE, 1,1′-OXYBIS[2-CHLORO-	YES	GENERATED	NO
U026	CHLORNAPHAZIN (OR) NAPHTHALENAMINE, N,N′-BIS(2-CHLOROETHYL)-	YES	GENERATED	NO

Code	Description	Site ID Form	Manifest	Hazardous Waste Biennial Report
U027	DICHLOROISOPROPYL ETHER (OR) PROPANE, 2,2′-OXYBIS[2-CHLORO-	YES	GENERATED	NO
U028	1,2-BENZENEDICARBOXYLIC ACID, BIS(2-ETHYLHEXYL) ESTER (OR) DIETHYLHEXYL PHTHALATE	YES	GENERATED	NO
U029	METHANE, BROMO- (OR) METHYL BROMIDE	YES	GENERATED	NO
U030	4-BROMOPHENYL PHENYL ETHER (OR) BENZENE, 1-BROMO-4-PHENOXY-	YES	GENERATED	NO
U031	1-BUTANOL (I) (OR) N-BUTYL ALCOHOL (I)	YES	BOTH	NO
U032	CALCIUM CHROMATE (OR) CHROMIC ACID H2CRO4, CALCIUM SALT	YES	GENERATED	MANAGED
U033	CARBON OXYFLUORIDE (R,T) (OR) CARBONIC DIFLUORIDE	YES	NO	NO
U034	ACETALDEHYDE, TRICHLORO- (OR) CHLORAL	YES	GENERATED	NO
U035	BENZENEBUTANOIC ACID, 4-[BIS(2-CHLOROETHYL)AMINO]- (OR) CHLORAMBUCIL	YES	BOTH	NO
U036	4,7-METHANO-1H-INDENE, 1,2,4,5,6,7,8,8-OCTACHLORO-2,3,3A,4,7,7A-HEXAHYDRO- (OR) CHLORDANE, ALPHA & GAMMA ISOMERS	YES	GENERATED	NO
U037	BENZENE, CHLORO- (OR) CHLOROBENZENE	YES	GENERATED	NO
U038	BENZENEACETIC ACID, 4-CHLORO-ALPHA-(4-CHLOROPHENYL)-ALPHA-HYDROXY-, ETHYL ESTER (OR) CHLOROBENZILATE	YES	GENERATED	NO

Code	Description	Site ID Form	Manifest	Hazardous Waste Biennial Report
U039	P-CHLORO-M-CRESOL (OR) PHENOL, 4-CHLORO-3-METHYL-	YES	GENERATED	NO
U041	EPICHLOROHYDRIN (OR) OXIRANE, (CHLOROMETHYL)-	YES	GENERATED	NO
U042	2-CHLOROETHYL VINYL ETHER (OR) ETHENE, (2-CHLOROETHOXY)-	YES	BOTH	NO
U043	ETHENE, CHLORO- (OR) VINYL CHLORIDE	YES	GENERATED	NO
U044	CHLOROFORM (OR) METHANE, TRICHLORO-	YES	GENERATED	NO
U045	METHANE, CHLORO- (I,T) (OR) METHYL CHLORIDE (I,T)	YES	GENERATED	NO
U046	CHLOROMETHYL METHYL ETHER (OR) METHANE, CHLOROMETHOXY-	YES	GENERATED	NO
U047	BETA-CHLORONAPHTHALENE (OR) NAPHTHALENE, 2-CHLORO-	YES	GENERATED	NO
U048	O-CHLOROPHENOL (OR) PHENOL, 2-CHLORO-	YES	GENERATED	NO
U049	4-CHLORO-O-TOLUIDINE, HYDROCHLORIDE (OR) BENZENAMINE, 4-CHLORO-2-METHYL-, HYDROCHLORIDE	YES	GENERATED	NO
U050	CHRYSENE	YES	GENERATED	NO
U051	CREOSOTE	YES	GENERATED	NO
U052	CRESOL (CRESYLIC ACID) (OR) PHENOL, METHYL-	YES	GENERATED	NO

Code	Description	Site ID Form	Manifest	Hazardous Waste Biennial Report
U053	2-BUTENAL (OR) CROTONALDEHYDE	YES	GENERATED	NO
U055	BENZENE, (1-METHYLETHYL)- (I) (OR) CUMENE (I)	YES	GENERATED	NO
U056	BENZENE, HEXAHYDRO- (I) (OR) CYCLOHEXANE (I)	YES	GENERATED	NO
U057	CYCLOHEXANONE (I)	YES	GENERATED	NO
U058	2H-1,3,2-OXAZAPHOSPHORIN-2-AMINE, N,N-BIS(2-CHLOROETHYL)TETRAHYDRO-, 2-OXIDE (OR) CYCLOPHOSPHAMIDE	YES	BOTH	NO
U059	5,12-NAPHTHACENEDIONE, 8-ACETYL-10-[(3-AMINO-2,3,6-TRIDEOXY)-ALPHA-L-LYXO-HEXOPYRANOSYL)OXY]-7,8,9,10-TETRAHYDRO-6,8,11-TRIHYDROXY-1-METHOXY-, (8S-CIS)- (OR) DAUNOMYCIN	YES	BOTH	NO
U060	BENZENE, 1,1′-(2,2-DICHLOROETHYLIDENE)BIS[4-CHLORO- (OR) DDD	YES	GENERATED	NO
U061	BENZENE, 1,1′-(2,2,2-TRICHLOROETHYLIDENE)BIS[4-CHLORO- (OR) DDT	YES	GENERATED	NO
U062	CARBAMOTHIOIC ACID, BIS(1-METHYLETHYL)-, S-(2,3-DICHLORO-2-PROPENYL) ESTER (OR) DIALLATE	YES	GENERATED	NO
U063	DIBENZ[A,H]ANTHRACENE	YES	GENERATED	NO
U064	BENZO[RST]PENTAPHENE (OR) DIBENZO[A,I]PYRENE	YES	GENERATED	NO
U066	1,2-DIBROMO-3-CHLOROPROPANE (OR) PROPANE, 1,2-DIBROMO-3-CHLORO-	YES	NO	NO

Code	Description	Site ID Form	Manifest	Hazardous Waste Biennial Report
U067	ETHANE, 1,2-DIBROMO- (OR) ETHYLENE DIBROMIDE	YES	GENERATED	NO
U068	METHANE, DIBROMO- (OR) METHYLENE BROMIDE	YES	GENERATED	NO
U069	1,2-BENZENEDICARBOXYLIC ACID, DIBUTYL ESTER (OR) DIBUTYL PHTHALATE	YES	BOTH	NO
U070	BENZENE, 1,2-DICHLORO- (OR) O-DICHLOROBENZENE	YES	GENERATED	NO
U071	BENZENE, 1,3-DICHLORO- (OR) M-DICHLOROBENZENE	YES	GENERATED	NO
U072	BENZENE, 1,4-DICHLORO- (OR) P-DICHLOROBENZENE	YES	GENERATED	NO
U073	[1,1′-BIPHENYL]-4,4′-DIAMINE, 3,3′-DICHLORO- (OR) 3,3′-DICHLOROBENZIDINE	YES	GENERATED	NO
U074	1,4-DICHLORO-2-BUTENE (I,T) (OR) 2-BUTENE, 1,4-DICHLORO- (I,T)	YES	GENERATED	NO
U075	DICHLORODIFLUOROMETHANE (OR) METHANE, DICHLORODIFLUORO-	YES	GENERATED	NO
U076	ETHANE, 1,1-DICHLORO- (OR) ETHYLIDENE DICHLORIDE	YES	GENERATED	NO
U077	ETHANE, 1,2-DICHLORO- (OR) ETHYLENE DICHLORIDE	YES	GENERATED	NO
U078	1,1-DICHLOROETHYLENE (OR) ETHENE, 1,1-DICHLORO-	YES	GENERATED	NO
U079	1,2-DICHLOROETHYLENE (OR) ETHENE, 1,2-DICHLORO-,(E)-	YES	GENERATED	NO

Code	Description	Site ID Form	Manifest	Hazardous Waste Biennial Report
U080	METHANE, DICHLORO- (OR) METHYLENE CHLORIDE	YES	GENERATED	NO
U081	2,4-DICHLOROPHENOL (OR) PHENOL, 2,4-DICHLORO-	YES	GENERATED	NO
U082	2,6-DICHLOROPHENOL (OR) PHENOL, 2,6-DICHLORO-	YES	GENERATED	NO
U083	PROPANE, 1,2-DICHLORO- (OR) PROPYLENE DICHLORIDE	YES	GENERATED	NO
U084	1,3-DICHLOROPROPENE (OR) 1-PROPENE, 1,3-DICHLORO-	YES	GENERATED	NO
U085	1,2:3,4-DIEPOXYBUTANE (I,T) (OR) 2,2′-BIOXIRANE	YES	GENERATED	NO
U086	HYDRAZINE, 1,2-DIETHYL- (OR) N,N′-DIETHYLHYDRAZINE	YES	GENERATED	NO
U087	O,O-DIETHYL S-METHYL DITHIOPHOSPHATE (OR) PHOSPHORODITHIOIC ACID, O,O-DIETHYL S-METHYL ESTER	YES	GENERATED	NO
U088	1,2-BENZENEDICARBOXYLIC ACID, DIETHYL ESTER (OR) DIETHYL PHTHALATE	YES	GENERATED	NO
U089	DIETHYLSTILBESTEROL (OR) PHENOL, 4,4′-(1,2-DIETHYL-1,2-ETHENEDIYL)BIS, (E)-	YES	BOTH	NO
U090	1,3-BENZODIOXOLE, 5-PROPYL- (OR) DIHYDROSAFROLE	YES	GENERATED	NO
U091	[1,1′-BIPHENYL]-4,4′-DIAMINE, 3,3′-DIMETHOXY- (OR) 3,3′-DIMETHOXYBENZIDINE	YES	GENERATED	NO

Code	Description	Site ID Form	Manifest	Hazardous Waste Biennial Report
U092	DIMETHYLAMINE (I) (OR) METHANAMINE, N-METHYL- (I)	YES	GENERATED	NO
U093	BENZENAMINE, N,N-DIMETHYL-4-(PHENYLAZO)- (OR) P-DIMETHYLAMINOAZOBENZENE	YES	NO	NO
U094	7,12-DIMETHYLBENZ[A]ANTHRACENE (OR) BENZ[A]ANTHRACENE, 7,12-DIMETHYL-	YES	GENERATED	NO
U095	[1,1′-BIPHENYL]-4,4′-DIAMINE, 3,3′-DIMETHYL- (OR) 3,3′-DIMETHYLBENZIDINE	YES	GENERATED	NO
U096	ALPHA,ALPHA-DIMETHYLBENZYLHYDROPEROXIDE (R) (OR) HYDROPEROXIDE, 1-METHYL-1-PHENYLETHYL- (R)	YES	GENERATED	NO
U097	CARBAMIC CHLORIDE, DIMETHYL- (OR) DIMETHYLCARBAMOYL CHLORIDE	YES	GENERATED	NO
U098	1,1-DIMETHYLHYDRAZINE (OR) HYDRAZINE, 1,1-DIMETHYL-	YES	GENERATED	NO
U099	1,2-DIMETHYLHYDRAZINE (OR) HYDRAZINE, 1,2-DIPHENYL-	YES	NO	NO
U101	2,4-DIMETHYLPHENOL (OR) PHENOL, 2,4-DIMETHYL-	YES	GENERATED	NO
U102	1,2-BENZENEDICARBOXYLIC ACID, DIMETHYL ESTER (OR) DIMETHYL PHTHALATE	YES	GENERATED	NO
U103	DIMETHYL SULFATE (OR) SULFURIC ACID, DIMETHYL ESTER	YES	GENERATED	NO

Code	Description	Site ID Form	Manifest	Hazardous Waste Biennial Report
U105	2,4-DINITROTOLUENE (OR) BENZENE, 1-METHYL-2,4-DINITRO-	YES	GENERATED	NO
U106	2,6-DINITROTOLUENE (OR) BENZENE, 2-METHYL-1,3-DINITRO-	YES	GENERATED	NO
U107	1,2-BENZENEDICARBOXYLIC ACID, DIOCTYL ESTER (OR) DI-N-OCTYL PHTHALATE	YES	GENERATED	NO
U108	1,4-DIETHYLENEOXIDE (OR) 1,4-DIOXANE	YES	GENERATED	NO
U109	1,2-DIPHENYLHYDRAZINE (OR) HYDRAZINE, 1,2-DIPHENYL-	YES	GENERATED	NO
U110	1-PROPANIMINE, N-PROPYL-(I) (OR) DIPROPYLAMINE (I)	YES	GENERATED	NO
U111	1-PROPANAMINE, N-NITROSO-N-PROPYL- (OR) DI-N-PROPYLNITROSAMINE	YES	GENERATED	NO
U112	ACETIC ACID, ETHYL ESTER (I) (OR) ETHYL ACETATE (I)	YES	BOTH	NO
U113	2-PROPENOIC ACID, ETHYL ESTER (I) (OR) ETHYL ACRYLATE (I)	YES	GENERATED	NO
U114	CARBAMODITHIOIC ACID, 1,2-ETHANEDIYLBIS-, SALTS & ESTERS (OR) ETHYLENEBISDITHIOCARBAMIC ACID, SALTS & ESTERS	YES	GENERATED	NO
U115	ETHYLENE OXIDE (I,T) (OR) OXIRANE (I,T)	YES	GENERATED	NO
U116	2-IMIDAZOLIDINETHIONE (OR) ETHYLENETHIOUREA	YES	GENERATED	NO
U117	ETHANE, 1,1′-OXYBIS-(I) (OR) ETHYL ETHER (I)	YES	GENERATED	NO

Code	Description	Site ID Form	Manifest	Hazardous Waste Biennial Report
U118	2-PROPENOIC ACID, 2-METHYL-, ETHYL ESTER (OR) ETHYL METHACRYLATE	YES	GENERATED	NO
U119	ETHYL METHANESULFONATE (OR) METHANESULFONIC ACID, ETHYL ESTER	YES	GENERATED	NO
U120	FLUORANTHENE	YES	GENERATED	NO
U121	METHANE, TRICHLOROFLUORO- (OR) TRICHLOROMONOFLUOROMETHANE	YES	GENERATED	NO
U122	FORMALDEHYDE	YES	BOTH	NO
U123	FORMIC ACID (C,T)	YES	GENERATED	NO
U124	FURAN (I) (OR) FURFURAN (I)	YES	GENERATED	NO
U125	2-FURANCARBOXALDEHYDE (I) (OR) FURFURAL (I)	YES	GENERATED	NO
U126	GLYCIDYLALDEHYDE (OR) OXIRANECARBOXYALDEHYDE	YES	GENERATED	NO
U127	BENZENE, HEXACHLORO- (OR) HEXACHLOROBENZENE	YES	GENERATED	NO
U128	1,3-BUTADIENE, 1,1,2,3,4,4-HEXACHLORO- (OR) HEXACHLOROBUTADIENE	YES	GENERATED	NO
U129	CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, (1ALPHA, 2ALPHA, 3BETA, 4ALPHA, 5ALPHA, 6BETA)- (OR) LINDANE	YES	BOTH	NO

Code	Description	Site ID Form	Manifest	Hazardous Waste Biennial Report
U130	1,3-CYCLOPENTADIENE, 1,2,3,4,5,5-HEXACHLORO- (OR) HEXACHLOROCYCLOPENTADIENE	YES	NO	NO
U131	ETHANE, HEXACHLORO- (OR) HEXACHLOROETHANE	YES	GENERATED	NO
U132	HEXACHLOROPHENE (OR) PHENOL, 2,2′-METHYLENEBIS[3,4,6-TRICHLORO-	YES	BOTH	NO
U133	HYDRAZINE (R,T)	YES	GENERATED	NO
U134	HYDROFLUORIC ACID (C,T) (OR) HYDROGEN FLUORIDE (C,T)	YES	BOTH	BOTH
U135	HYDROGEN SULFIDE (OR) HYDROGEN SULFIDE H2S	YES	GENERATED	NO
U136	ARSINIC ACID, DIMETHYL- (OR) CACODYLIC ACID	YES	GENERATED	NO
U137	INDENO[1,2,3-CD]PYRENE	YES	GENERATED	NO
U138	METHANE, IODO- (OR) METHYL IODIDE	YES	GENERATED	NO
U140	1-PROPANOL, 2-METHYL- (I,T) (OR) ISOBUTYL ALCOHOL (I,T)	YES	GENERATED	NO
U141	1,3-BENZODIOXOLE, 5-(1-PROPENYL)- (OR) ISOSAFROLE	YES	GENERATED	NO
U142	1,3,4-METHENO-2H-CYCLOBUTA[CD]PENTALEN-2-ONE, 1,1A,3,3A,4,5,5,5A,5B,6-DECACHLOROOCTAHYDRO- (OR) KEPONE	YES	GENERATED	NO
U143	2-BUTENOIC ACID, 2-METHYL-, 7-[[2,3-DIHYDROXY-2-(1-METHOXYETHYL)-3-METHYL-1-OXOBUTOXY]METHYL]-2,3,5,7A-	YES	GENERATED	NO

Code	Description	Site ID Form	Manifest	Hazardous Waste Biennial Report
	TETRAHYDRO-1H-PYRROLIZIN-1-YL ESTER, [1S-[1ALPHA(Z), 7(2S*,3R*), 7AALPHA]]- (OR) LASIOCARPINE			
U144	ACETIC ACID, LEAD(2+) SALT (OR) LEAD ACETATE	YES	BOTH	NO
U145	LEAD PHOSPHATE (OR) PHOSPHORIC ACID, LEAD(2+) SALT (2:3)	YES	GENERATED	NO
U146	LEAD SUBACETATE (OR) LEAD, BIS(ACETATO-O)TETRAHYDROXYTRI-	YES	GENERATED	NO
U147	2,5-FURANDIONE (OR) MALEIC ANHYDRIDE	YES	GENERATED	NO
U148	3,6-PYRIDAZINEDIONE, 1,2-DIHYDRO- (OR) MALEIC HYDRAZIDE	YES	GENERATED	NO
U149	MALONONITRILE (OR) PROPANEDINITRILE	YES	GENERATED	NO
U150	L-PHENYLALANINE, 4-[BIS(2-CHLOROETHYL)AMINO]- (OR) MELPHALAN	YES	BOTH	NO
U151	MERCURY	YES	GENERATED	NO
U152	2-PROPENENITRILE, 2-METHYL- (I,T) (OR) METHACRYLONITRILE (I,T)	YES	GENERATED	NO
U153	METHANETHIOL (I,T) (OR) THIOMETHANOL (I,T)	YES	GENERATED	NO
U154	METHANOL (I) (OR) METHYL ALCOHOL (I)	YES	BOTH	NO
U155	1,2-ETHANEDIAMINE, N,N-DIMETHYL-N′-2-PYRIDINYL-N′-(2-THIENYLMETHYL)- (OR) METHAPYRILENE	YES	GENERATED	NO

Code	Description	Site ID Form	Manifest	Hazardous Waste Biennial Report
U156	CARBONOCHLORIDIC ACID, METHYL ESTER, (I,T) (OR) METHYL CHLOROCARBONATE (I,T)	YES	GENERATED	NO
U157	3-METHYLCHOLANTHRENE (OR) BENZ[J]ACEANTHRYLENE, 1,2-DIHYDRO-3-METHYL-	YES	GENERATED	NO
U158	4,4′-METHYLENEBIS(2-CHLOROANILINE) (OR) BENZENAMINE, 4,4′-METHYLENEBIS[2-CHLORO-	YES	GENERATED	NO
U159	2-BUTANONE (I,T) (OR) METHYL ETHYL KETONE (MEK) (I,T)	YES	BOTH	NO
U160	2-BUTANONE, PEROXIDE (R,T) (OR) METHYL ETHYL KETONE PEROXIDE (R,T)	YES	GENERATED	NO
U161	4-METHYL-2-PENTANONE (I) (OR) METHYL ISOBUTYL KETONE (I) (OR) PENTANOL, 4-METHYL-	YES	GENERATED	NO
U162	2-PROPENOIC ACID, 2-METHYL-, METHYL ESTER (I,T) (OR) METHYL METHACRYLATE (I,T)	YES	GENERATED	NO
U163	GUANIDINE, N-METHYL-N′-NITRO-N-NITROSO- (OR) MNNG	YES	GENERATED	NO
U164	4(1H)-PYRIMIDINONE, 2,3-DIHYDRO-6-METHYL-2-THIOXO- (OR) METHYLTHIOURACIL	YES	GENERATED	NO
U165	NAPHTHALENE	YES	GENERATED	NO
U166	1,4-NAPHTHALENEDIONE (OR) 1,4-NAPHTHOQUINONE	YES	GENERATED	NO

Code	Description	Site ID Form	Manifest	Hazardous Waste Biennial Report
U167	1-NAPTHALENAMINE (OR) ALPHA-NAPHTHYLAMINE	YES	GENERATED	NO
U168	2-NAPTHALENAMINE (OR) BETA-NAPHTHYLAMINE	YES	GENERATED	NO
U169	BENZENE, NITRO- (OR) NITROBENZENE (I,T)	YES	GENERATED	NO
U170	P-NITROPHENOL (I,T) (OR) PHENOL, 4-NITRO-	YES	GENERATED	NO
U171	2-NITROPROPANE (I,T) (OR) PROPANE, 2-NITRO- (I,T)	YES	GENERATED	NO
U172	1-BUTANAMINE, N-BUTYL-N-NITROSO- (OR) N-NITROSODI-N-BUTYLAMINE	YES	GENERATED	NO
U173	ETHANOL, 2,2′-(NITROSOIMINO)BIS- (OR) N-NITROSODIETHANOLAMINE	YES	GENERATED	NO
U174	ETHANAMINE, N-ETHYL-N-NITROSO- (OR) N-NITROSODIETHYLAMINE	YES	GENERATED	NO
U176	N-NITROSO-N-ETHYLUREA (OR) UREA, N-ETHYL-N-NITROSO-	YES	GENERATED	NO
U177	N-NITROSO-N-METHYLUREA (OR) UREA, N-METHYL-N-NITROSO-	YES	GENERATED	NO
U178	CARBAMIC ACID, METHYLNITROSO-, ETHYL ESTER (OR) N-NITROSO-N-METHYLURETHANE	YES	GENERATED	NO
U179	N-NITROSOPIPERIDINE (OR) PIPERIDINE, 1-NITROSO-	YES	GENERATED	NO
U180	N-NITROSOPYRROLIDINE (OR) PYRROLIDINE, 1-NITROSO-	YES	GENERATED	NO

Code	Description	Site ID Form	Manifest	Hazardous Waste Biennial Report
U181	5-NITRO-O-TOLUIDINE (OR) BENZENAMINE, 2-METHYL-5-NITRO	YES	GENERATED	NO
U182	1,3,5-TRIOXANE, 2,4,6-TRIMETHYL- (OR) PARALDEHYDE	YES	GENERATED	NO
U183	BENZENE, PENTACHLORO- (OR) PENTACHLOROBENZENE	YES	GENERATED	NO
U184	ETHANE, PENTACHLORO- (OR) PENTACHLOROETHANE	YES	GENERATED	NO
U185	BENZENE, PENTACHLORONITRO- (OR) PENTACHLORONITROBENZENE (PCNB)	YES	GENERATED	NO
U186	1,3-PENTADIENE (I) (OR) 1-METHYLBUTADIENE (I)	YES	GENERATED	NO
U187	ACETAMIDE, N-(4-ETHOXYPHENYL)- (OR) PHENACETIN	YES	BOTH	NO
U188	PHENOL	YES	GENERATED	NO
U189	PHOSPHORUS SULFIDE (R) (OR) SULFUR PHOSPHIDE (R)	YES	GENERATED	NO
U190	1,3-ISOBENZOFURANDIONE (OR) PHTHALIC ANHYDRIDE	YES	GENERATED	NO
U191	2-PICOLINE (OR) PYRIDINE, 2-METHYL-	YES	GENERATED	NO
U192	BENZAMIDE, 3,5-DICHLORO-N-(1,1-DIMETHYL-2-PROPYNYL)- (OR) PRONAMIDE	YES	GENERATED	NO
U193	1,2-OXATHIOLANE, 2,2-DIOXIDE (OR) 1,3-PROPANE SULTONE	YES	GENERATED	NO

Code	Description	Site ID Form	Manifest	Hazardous Waste Biennial Report
U194	1-PROPANAMINE (I,T) (OR) N-PROPYLAMINE (I,T)	YES	GENERATED	NO
U196	PYRIDINE	YES	GENERATED	NO
U197	2,5-CYCLOHEXADIENE-1,4-DIONE (OR) P-BENZOQUINONE	YES	BOTH	NO
U200	RESERPINE (OR) YOHIMBAN-16-CARBOXYLIC ACID, 11,17-DIMETHOXY-18-[(3,4,5-TRIMETHOXYBENZOYL)OXY]-, METHYL ESTER, (3BETA, 16BETA, 17ALPHA, 18BETA, 20ALPHA)-	YES	BOTH	NO
U201	1,3-BENZENEDIOL (OR) RESORCINOL	NO	GENERATED	NO
U203	1,3-BENZODIOXOLE, 5-(2-PROPENYL)- (OR) SAFROLE	YES	GENERATED	NO
U204	SELENIOUS ACID (OR) SELENIUM DIOXIDE	YES	BOTH	NO
U205	SELENIUM SULFIDE (OR) SELENIUM SULFIDE SES2 (R,T)	YES	BOTH	NO
U206	D-GLUCOSE, 2-DEOXY-2-[[(METHYLNITROSOAMINO)-CARBONYL]AMINO]- (OR) GLUCOPYRANOSE, 2-DEOXY-2-(3-METHYL-3-NITROSOUREIDO)-,D- (OR) STREPTOZOTOCIN	YES	GENERATED	NO
U207	1,2,4,5-TETRACHLOROBENZENE (OR) BENZENE, 1,2,4,5-TETRACHLORO-	YES	GENERATED	NO
U208	1,1,1,2-TETRACHLOROETHANE (OR) ETHANE, 1,1,1,2-TETRACHLORO-	YES	GENERATED	NO
U209	1,1,2,2-TETRACHLOROETHANE (OR) ETHANE, 1,1,2,2-TETRACHLORO-	YES	GENERATED	NO

Code	Description	Site ID Form	Manifest	Hazardous Waste Biennial Report
U210	ETHENE, TETRACHLORO- (OR) TETRACHLOROETHYLENE	YES	BOTH	NO
U211	CARBON TETRACHLORIDE (OR) METHANE, TETRACHLORO-	YES	GENERATED	NO
U213	FURAN, TETRAHYDRO-(I) (OR) TETRAHYDROFURAN (I)	YES	GENERATED	NO
U214	ACETIC ACID, THALLIUM(1+) SALT (OR) THALLIUM(I) ACETATE	YES	GENERATED	NO
U215	CARBONIC ACID, DITHALLIUM(1+) SALT (OR) THALLIUM(I) CARBONATE	YES	NO	NO
U216	THALLIUM CHLORIDE TLCL (OR) THALLIUM(I) CHLORIDE	YES	NO	NO
U217	NITRIC ACID, THALLIUM(1+) SALT (OR) THALLIUM(I) NITRATE	YES	NO	NO
U218	ETHANETHIOAMIDE (OR) THIOACETAMIDE	YES	GENERATED	NO
U219	THIOUREA	YES	GENERATED	NO
U220	BENZENE, METHYL- (OR) TOLUENE	YES	BOTH	NO
U221	BENZENEDIAMINE, AR-METHYL- (OR) TOLUENEDIAMINE	YES	GENERATED	NO
U222	BENZENAMINE, 2-METHYL-, HYDROCHLORIDE (OR) O-TOLUIDINE HYDROCHLORIDE	YES	GENERATED	NO
U223	BENZENE, 1,3-DIISOCYANATOMETHYL- (R,T) (OR) TOLUENE DIISOCYANATE (R,T)	YES	GENERATED	NO

Code	Description	Site ID Form	Manifest	Hazardous Waste Biennial Report
U225	BROMOFORM (OR) METHANE, TRIBROMO-	YES	GENERATED	NO
U226	ETHANE, 1,1,1-TRICHLORO- (OR) METHYL CHLOROFORM	YES	GENERATED	NO
U227	1,1,2-TRICHLOROETHANE (OR) ETHANE, 1,1,2-TRICHLORO-	YES	GENERATED	NO
U228	ETHENE, TRICHLORO- (OR) TRICHLOROETHYLENE	YES	GENERATED	NO
U234	1,3,5-TRINITROBENZENE (R,T) (OR) BENZENE, 1,3,5-TRINITRO-	YES	NO	NO
U235	1-PROPANOL, 2,3-DIBROMO-, PHOSPHATE (3:1) (OR) TRIS(2,3,-DIBROMOPROPYL) PHOSPHATE	YES	NO	NO
U236	2,7-NAPHTHALENEDISULFONIC ACID,3,3′-[(3,3′-DIMETHYL[1,1′-BIPHENYL]-4,4′-DIYL)BIS(AZO)BIS[5-AMINO-4-HYDROXY]-, TETRASODIUM SALT (OR) TRYPAN BLUE	YES	BOTH	NO
U237	2,4-(1H,3H)-PYRIMIDINEDIONE, 5-[BIS(2-CHLOROETHYL)AMINO]- (OR) URACIL MUSTARD	YES	GENERATED	NO
U238	CARBAMIC ACID, ETHYL ESTER (OR) ETHYL CARBAMATE (URETHANE)	YES	GENERATED	NO
U239	BENZENE, DIMETHYL- (I,T) (OR) XYLENE (I)	YES	BOTH	NO
U240	2,4-D, SALTS & ESTERS (OR) ACETIC ACID, (2,4-DICHLOROPHENOXY)-, SALTS & ESTERS (OR) DICHLOROPHENOXYACETIC ACID 2,4-D	YES	BOTH	NO

Code	Description	Site ID Form	Manifest	Hazardous Waste Biennial Report
U243	1-PROPENE, 1,1,2,3,3,3-HEXACHLORO- (OR) HEXACHLOROPROPENE	YES	GENERATED	NO
U244	THIOPEROXYDICARBONIC DIAMIDE [(H2N)C(S)]2S2, TETRAMETHYL- (OR) THIRAM	YES	GENERATED	NO
U246	CYANOGEN BROMIDE (CN)BR	YES	GENERATED	NO
U247	BENZENE, 1,1′-(2,2,2-TRICHLOROETHYLIDENE)BIS[4-METHOXY- (OR) METHOXYCHLOR	YES	GENERATED	NO
U248	2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYL-BUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS OF 0.3% OR LESS (OR) WARFARIN, & SALTS, WHEN PRESENT AT CONCENTRATIONS OF 0.3% OR LESS	YES	GENERATED	NO
U249	ZINC PHOSPHIDE ZN3P2, WHEN PRESENT AT CONCENTRATIONS OF 10% OR LESS	YES	NO	NO
U271	BENOMYL (OR) CARBAMIC ACID, [1-[(BUTYLAMINO)CARBONYL]-1H-BENZIMIDAZOL-2-YL]-, METHYL ESTER	YES	NO	NO
U278	BENDIOCARB (OR) 1,3-BENZODIOXOL-4-OL, 2,2-DIMETHYL-, METHYL CARBAMATE	YES	NO	NO
U279	CARBARYL (OR) 1-NAPHTHALENOL, METHYLCARBAMATE	YES	BOTH	NO
U280	BARBAN (OR) CARBAMIC ACID, (3-CHLOROPHENYL)-, 4-CHLORO-2-BUTYNYL ESTER	YES	NO	NO

Code	Description	Site ID Form	Manifest	Hazardous Waste Biennial Report
U328	BENZENAMINE, 2-METHYL- (OR) O-TOLUIDINE	YES	GENERATED	NO
U353	BENZENAMINE, 4-METHYL- (OR) P-TOLUIDINE	YES	GENERATED	NO
U359	ETHANOL, 2-ETHOXY- (OR) ETHYLENE GLYCOL MONOETHYL ETHER	YES	GENERATED	NO
U364	BENDIOCARB PHENOL (OR) 1,3-BENZODIOXOL-4-OL, 2,2-DIMETHYL-	YES	NO	NO
U367	7-BENZOFURANOL, 2,3-DIHYDRO-2,2-DIMETHYL- (OR) CARBOFURAN PHENOL	YES	NO	NO
U372	CARBAMIC ACID, 1H-BENZIMIDAZOL-2-YL, METHYL ESTER (OR) CARBENDAZIM	YES	NO	NO
U373	CARBAMIC ACID, PHENYL-, 1-METHYLETHYL ESTER (OR) PROPHAM	YES	NO	NO
U387	CARBAMOTHIOIC ACID, DIPROPYL-, S-(PHENYLMETHYL) ESTER (OR) PROSULFOCARB	YES	NO	NO
U389	CARBAMOTHIOIC ACID, BIS(1-METHYLETHYL)-, S-(2,3,3-TRICHLORO-2-PROPENYL) ESTER (OR) TRIALLATE	YES	NO	NO
U394	A2213 (OR) ETHANIMIDOTHIOIC ACID, 2-(DIMETHYLAMINO)-N-HYDROXY-2-OXO-, METHYL ESTER	YES	NO	NO
U395	DIETHYLENE GLYCOL, DICARBAMATE (OR) ETHANOL, 2,2′-OXYBIS-, DICARBAMATE	YES	NO	NO

Code	Description	Site ID Form	Manifest	Hazardous Waste Biennial Report
U404	ETHANAMINE, N,N-DIETHYL- (OR) TRIETHYLAMINE	YES	NO	NO
U409	CARBAMIC ACID, [1,2-PHENYLENEBIS (IMINOCARBONOTHIOYL)]BIS-, DIMETHYL ESTER (OR) THIOPHANATE-METHYL	YES	NO	NO
U410	ETHANIMIDOTHIOIC ACID, N,N′-[THIOBIS[(METHYLIMINO)CARBONYLOXY]]BIS-, DIMETHYL ESTER (OR) THIODICARB	YES	NO	NO
U411	PHENOL, 2-(1-METHYLETHOXY)-, METHYLCARBAMATE (OR) PROPOXUR	YES	GENERATED	NO

State Waste Codes

Code	Description	Site ID Form	Manifest	Hazardous Waste Biennial Report
NV-CAONLY	GENERIC CALIFORNIA STATE WASTE CODE	YES	NO	NO

Site History

Site History Details

Source	Received Date	Site Name	Federal Generator Category
ANNUAL/BIENNIAL REPORT WITH NOTIFICATION	03/04/2024	21ST CENTURY ENVIRONMENTAL MANAGMENT OF NEVADA, LLC.	LARGE QUANTITY GENERATOR
ANNUAL/BIENNIAL REPORT WITH NOTIFICATION	03/02/2022	21ST CENTURY ENVIRONMENTAL MANAGMENT OF NEVADA, LLC.	LARGE QUANTITY GENERATOR
ANNUAL/BIENNIAL REPORT WITH NOTIFICATION	02/18/2020	21ST CENTURY ENVIRONMENTAL MANAGMENT OF NEVADA, LLC.	LARGE QUANTITY GENERATOR
ANNUAL/BIENNIAL REPORT WITH NOTIFICATION	03/01/2018	21ST CENTURY ENVIRONMENTAL MANAGMENT OF NEVADA, LLC.	LARGE QUANTITY GENERATOR
NOTIFICATION	04/05/2016	21ST CENTURY ENVIRONMENTAL MANAGMENT OF NEVADA LLC	LARGE QUANTITY GENERATOR
ANNUAL/BIENNIAL REPORT WITH NOTIFICATION	03/25/2016	21ST CENTURY ENVIRONMENTAL MANAGMENT OF NEVADA, LLC.	LARGE QUANTITY GENERATOR
NOTIFICATION	03/20/2014	21ST CENTURY ENVIRONMENTAL MANAGMENT OF NEVADA LLC	LARGE QUANTITY GENERATOR
ANNUAL/BIENNIAL REPORT WITH NOTIFICATION	03/18/2014	21ST CENTURY ENVIRONMENTAL MANAGMENT OF NEVADA, LLC.	LARGE QUANTITY GENERATOR
NOTIFICATION	11/28/2012	21ST CENTURY ENVIRONMENTAL MGT OF NV LLC	LARGE QUANTITY GENERATOR
ANNUAL/BIENNIAL REPORT WITH NOTIFICATION	09/25/2012	21ST CENTURY ENVIRONMENTAL MANAGEMENT OF NEVADA, LLC	LARGE QUANTITY GENERATOR

Source	Received Date	Site Name	Federal Generator Category
NOTIFICATION	06/12/2012	21ST CENTURY ENVIRONMENTAL MGT OF NV LLC	LARGE QUANTITY GENERATOR
NOTIFICATION	02/27/2012	21ST CENTURY ENVIRONMENTAL MGT OF NV LLC	LARGE QUANTITY GENERATOR
NOTIFICATION	10/10/2011	21ST CENTURY ENVIRONMENTAL MGT. OF NV LLC	LARGE QUANTITY GENERATOR
ANNUAL/BIENNIAL REPORT WITH NOTIFICATION	05/28/2010	21ST CENTURY ENVIRONMENTAL MGT. OF NV LLC	LARGE QUANTITY GENERATOR
NOTIFICATION	04/02/2010	21ST CENTURY ENVIRONMENTAL MANAGEMENT OF NV LLC	LARGE QUANTITY GENERATOR
NOTIFICATION	05/20/2008	21ST CENTURY ENVIRONMENTAL MANAGEMENT OF NV LLC	LARGE QUANTITY GENERATOR
NOTIFICATION	04/07/2008	21ST CENTURY ENVIRONMENTAL MANAGEMENT OF NEVADA, LLC	LARGE QUANTITY GENERATOR
BIENNIAL REPORT	03/05/2008	21ST CENTURY ENVIRONMENTAL MANAGEMENT INC.	LARGE QUANTITY GENERATOR
BIENNIAL REPORT	02/25/2006	21ST CENTURY EMI	LARGE QUANTITY GENERATOR
NOTIFICATION	08/16/2004	21ST CENTURY EMI	LARGE QUANTITY GENERATOR

Source	Received Date	Site Name	Federal Generator Category
ANNUAL/BIENNIAL REPORT WITH NOTIFICATION	03/01/2004	21ST CENTURY EMI	LARGE QUANTITY GENERATOR
BIENNIAL REPORT	03/01/2002	21ST CENTURY ENVIRONMENTAL MANAGEMENT IN	VERY SMALL QUANTITY GENERATOR
BIENNIAL REPORT	03/14/2001	21ST CENTURY EMI	LARGE QUANTITY GENERATOR
BIENNIAL REPORT	09/23/1998	21ST CENTURY EMI	LARGE QUANTITY GENERATOR
IMPLEMENTER	09/22/1997	21ST CENTURY EMI DBA TRANSPORTER	LARGE QUANTITY GENERATOR
BIENNIAL REPORT	03/01/1996	21ST CENTURY EMI DBA TRANSPORTER	LARGE QUANTITY GENERATOR
NOTIFICATION	06/20/1994	21ST CENTURY EMI DBA TRANSPORTER	LARGE QUANTITY GENERATOR
BIENNIAL REPORT	03/29/1994	ETICAM	LARGE QUANTITY GENERATOR
IMPLEMENTER	10/22/1993	21ST CENTURY EMI DBA TRANSPORTER	LARGE QUANTITY GENERATOR
BIENNIAL REPORT	03/26/1992	ETICAM-NEVADA, INC.	LARGE QUANTITY GENERATOR

Source	Received Date	Site Name	Federal Generator Category
BIENNIAL REPORT	03/01/1990	ETICAM-NEVADA, INC.	NOT A GENERATOR

APPENDIX H – ECHO DATABASE REPORT

Detailed Facility Report

Facility Summary

21ST CENTURY ENVIRONMENTAL LLC - CLEAN EARTH TSDF

2095 E NEWLANDS DR, FERNLEY, NV 89408

FRS (Facility Registry Service) ID: 110020509831

EPA Region: 09

Latitude: 39.61033

Longitude: -119.20296

Locational Data Source: TRIS

Industries: Waste Management and Remediation Services

Indian Country: N

Enforcement and Compliance Summary

Statute	CAA
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	--
Compliance Status	--
Qtrs in Noncompliance (of 12)	--
Qtrs with Significant Violation	--
Informal Enforcement Actions (5 years)	--
Formal Enforcement Actions (5 years)	--
Penalties from Formal Enforcement Actions (5 years)	--
EPA Cases (5 years)	--
Penalties from EPA Cases (5 years)	--
Statute	**CWA**
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	--
Compliance Status	No Violation Identified
Qtrs in Noncompliance (of 12)	0
Qtrs with Significant Violation	0
Informal Enforcement Actions (5 years)	--
Formal Enforcement Actions (5 years)	--
Penalties from Formal Enforcement Actions (5 years)	--
EPA Cases (5 years)	--
Penalties from EPA Cases (5 years)	--

Statute	RCRA
Compliance Monitoring Activities (5 years)	4
Date of Last Compliance Monitoring Activity	09/18/2025
Compliance Status	Violation Identified
Qtrs in Noncompliance (of 12)	3
Qtrs with Significant Violation	0
Informal Enforcement Actions (5 years)	4
Formal Enforcement Actions (5 years)	--
Penalties from Formal Enforcement Actions (5 years)	--
EPA Cases (5 years)	--
Penalties from EPA Cases (5 years)	--

Regulatory Information

Clean Air Act (CAA): No Information

Clean Water Act (CWA): Non-Major, Permit Expired (NVIS01083), Non-Major, Permit Expired (NVIS48497)

Resource Conservation and Recovery Act (RCRA): Active LQG, Operating TSDF, Transporter, (NVD980895338)

Safe Drinking Water Act (SDWA): No Information

Go To Enforcement/Compliance Details

Known Data Problems <https://epa.gov/resources/echo-data/known-data-problems>

Other Regulatory Reports

Air Emissions Inventory (EIS): 6015311

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): 89408CNTRY2095N

Compliance and Emissions Data Reporting Interface (CEDRI): No Information

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110020509831					N	39.61033	-119.20296
ICIS		1800051059					N	39.608913	-119.209
EIS	CAA	6015311					N	39.607923	-119.202682
ICIS-NPDES	CWA	NVIS01083	Non-Major: General Permit Covered Facility	Expired	Industrial Stormwater	06/09/2024	N	39.60946	-119.20267
ICIS-NPDES	CWA	NVIS48497	Non-Major: General Permit Covered Facility	Expired	Industrial Stormwater	06/09/2024	N	39.60946	-119.20267
TRI	EP313	89408CNTRY2095N	Toxics Release Inventory	Last Reported for 2024			N	39.61033	-119.20296
RCRAInfo	RCRA	NVD980895338	LQG, Operating TSDF, Transporter	Active (HPA)			N	39.610253	-119.203094

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110020509831	21ST CENTURY ENVIRONMENTAL LLC - CLEAN EARTH TSDF	2095 E NEWLANDS DR, FERNLEY, NV 89408	Lyon County
ICIS		1800051059	21ST CENTURY ENVIRONMENTAL MANAGEMENT OF NEVADA, LLC	2095 NEWLANDS DRIVE E., FERNLEY, NV 89408	Lyon County
EIS	CAA	6015311	FERNLEY PLANT	2095 NEWLANDS DR EAST, FERNLEY, NV 89408	Lyon County
ICIS-NPDES	CWA	NVIS01083	21ST CENTURY ENVIRONMENTAL MANAGEMENT OF NEVADA, LLC	2095 NEWLANDS DRIVE EAST, FERNLEY, NV 89408	Lyon County
ICIS-NPDES	CWA	NVIS48497	21ST CENTURY ENVIRONMENTAL MANAGEMENT OF NEVADA, LLC	2095 NEWLANDS DRIVE EAST, FERNLEY, NV 89408	Lyon County
TRI	EP313	89408CNTRY2095N	21ST CENTURY ENVIRONMENTAL MANAGEMENT OF NEVADA LLC	2095 NEWLANDS DR E, FERNLEY, NV 89408	Lyon County
RCRAInfo	RCRA	NVD980895338	21ST CENTURY ENVIRONMENTAL MANAGMENT OF NEVADA, LLC.	2095 NEWLANDS DRIVE EAST, FERNLEY, NV 89408	Lyon County

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description
TRI	89408CNTRY2095N	3999	Manufacturing Industries
TRI	89408CNTRY2095N	4953	Refuse Systems

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description
EIS	6015311	562920	Materials Recovery Facilities
TRI	89408CNTRY2095N	562211	Hazardous Waste Treatment and Disposal
RCRAInfo	NVD980895338	562211	Hazardous Waste Treatment and Disposal

Facility Industrial Effluent Guidelines

Identifier	Effluent Guideline (40 CFR Part)	Effluent Guideline Description

No data records returned

Facility Tribe Information

Reservation Name	Tribe Name	EPA Tribal ID	Distance to Tribe (miles)
Fallon Paiute-Shoshone Colony	Paiute-Shoshone Tribe of the Fallon Reservation and Colony, Nevada	100000190	1
Pyramid Lake Paiute Reservation	Pyramid Lake Paiute Tribe of the Pyramid Lake Reservation, Nevada	100000229	4

Enforcement and Compliance

RCRA (Hazardous Waste (Resource Conservation and Recovery Act) Compliance Pipeline (Compliance Monitoring → Violations → Enforcement Actions) (10 Years)

This table shows how violations relate to compliance monitoring (CM) activities and enforcement. Currently available for CAA and RCRA only. Full CM history available below.

Compliance Monitoring				Violations				Enforcement Actions			
Source ID	Compliance Monitoring Type	Compliance Monitoring Agency	Compliance Monitoring Date	Violation Type	Violation Agency	Violation Determined Date	Return to Compliance Date	Enforcement Type	Enforcement Action Date	Penalty Assessed	Comp Action Cost
NVD980895338	Compliance Evaluation Inspection	State	09/18/2025	Undetermined	--	--	--				
NVD980895338	*Non-Financial Record Review*	*State*	*07/16/2025*	No Violation Identified	--	--	--				
NVD980895338	*Non-Financial Record Review*	*State*	*07/10/2025*	PCR: Permit Condition or Requirement	NV	07/17/2025	07/17/2025	Verbal Informal	07/17/2025	--	--
NVD980895338	*Non-Financial Record Review*	*State*	*06/30/2025*	No Violation Identified	--	--	--				
NVD980895338	*Non-Financial Record Review*	*State*	*06/17/2025*	264.J: TSD - Tank System Standards 270.B: Permits - Application PCR: Permit Condition or Requirement	NV NV NV	06/17/2025 06/17/2025 06/17/2025	Open Open Open	Failure To Comply With Informal Enforcement Action Written Informal	07/08/2025 06/17/2025	-- --	-- --
NVD980895338	*Non-Financial Record Review*	*State*	*06/13/2025*	264.E: TSD - Manifest/Records/Reporting 264.E: TSD - Manifest/Records/Reporting 270.C: Permits - Conditions PCR: Permit Condition or Requirement	NV NV NV NV	06/13/2025 06/13/2025 06/13/2025 06/13/2025	07/14/2025 06/13/2025 06/13/2025 06/13/2025	Written Informal	07/03/2025	--	--
NVD980895338	*Non-Financial Record Review*	*State*	*03/12/2025*	No Violation Identified	--	--	--				
NVD980895338	Groundwater Monitoring Evaluation	State	02/20/2025	264.F: TSD - Releases from SWMUs 264.F: TSD - Releases from SWMUs 264.F: TSD - Releases from SWMUs 264.F: TSD - Releases from SWMUs 264.F: TSD - Releases from SWMUs	NV NV NV NV NV	02/20/2025 02/20/2025 02/20/2025 02/20/2025 02/20/2025	Open Open Open Open Open	Written Informal	02/20/2025	--	--
NVD980895338	Compliance Evaluation Inspection	State	09/17/2024	Undetermined	--	--	--				

Compliance Monitoring				Violations				Enforcement Actions			
Source ID	Compliance Monitoring Type	Compliance Monitoring Agency	Compliance Monitoring Date	Violation Type	Violation Agency	Violation Determined Date	Return to Compliance Date	Enforcement Type	Enforcement Action Date	Penalty Assessed	Comp Action Cost
NVD980895338	Compliance Evaluation Inspection	State	06/30/2021	262.A: Generators - General	NV	06/30/2021	06/30/2021	Verbal Informal	06/30/2021	--	--
				262.A: Generators - General	NV	06/30/2021	06/30/2021				
				262.A: Generators - General	NV	06/30/2021	06/30/2021				
				273.C: Universal Waste - Large Quantity Handlers	NV	06/30/2021	06/30/2021				
				XXS: State Statute or Regulation	NV	06/30/2021	06/30/2021				
NVD980895338	Compliance Evaluation Inspection	State	06/19/2019	PCR: Permit Condition or Requirement	NV	06/19/2019	06/19/2019	Verbal Informal	06/19/2019	--	--
				PCR: Permit Condition or Requirement	NV	06/19/2019	06/19/2019				
				PCR: Permit Condition or Requirement	NV	06/19/2019	06/19/2019				
				PCR: Permit Condition or Requirement	NV	06/19/2019	06/19/2019				
NVD980895338	Operation And Maintenance Inspection	State	06/11/2019	No Violation Identified	--	--	--				
NVD980895338	Compliance Evaluation Inspection	State	06/12/2018	PCR: Permit Condition or Requirement	NV	06/12/2018	06/13/2018	Written Informal	04/12/2019	--	--
				273.C: Universal Waste - Large Quantity Handlers	NV	06/12/2018	06/12/2018				
				PCR: Permit Condition or Requirement	NV	06/12/2018	06/12/2018				
				PCR: Permit Condition or Requirement	NV	06/12/2018	06/12/2018				
				PCR: Permit Condition or Requirement	NV	06/12/2018	06/12/2018				
				PCR: Permit Condition or Requirement	NV	06/12/2018	06/12/2018				
				PCR: Permit Condition or Requirement	NV	06/12/2018	06/12/2018				
				PCR: Permit Condition or Requirement	NV	06/12/2018	06/12/2018				
				PCR: Permit Condition or Requirement	NV	06/12/2018	06/12/2018				
NVD980895338	Operation And Maintenance Inspection	State	03/13/2018	No Violation Identified	--	--	--				
NVD980895338	Compliance Evaluation Inspection	State	06/13/2017	262.C: Generators - Pre-transport	NV	06/13/2017	06/13/2017	Written Informal	11/03/2017	--	--
				262.C: Generators - Pre-transport	NV	06/13/2017	06/13/2017				
				273.C: Universal Waste - Large Quantity Handlers	NV	06/13/2017	06/13/2017				
				273.C: Universal Waste - Large Quantity Handlers	NV	06/13/2017	06/13/2017				
				273.C: Universal Waste - Large Quantity Handlers	NV	06/13/2017	06/13/2017				
				PCR: Permit Condition or Requirement	NV	06/13/2017	06/13/2017				
				PCR: Permit Condition or Requirement	NV	06/13/2017	06/13/2017				
				PCR: Permit Condition or Requirement	NV	06/13/2017	06/13/2017				
				PCR: Permit Condition or Requirement	NV	06/13/2017	06/13/2017				
				PCR: Permit Condition or Requirement	NV	06/13/2017	06/13/2017				

Compliance Monitoring				Violations				Enforcement Actions			
Source ID	Compliance Monitoring Type	Compliance Monitoring Agency	Compliance Monitoring Date	Violation Type	Violation Agency	Violation Determined Date	Return to Compliance Date	Enforcement Type	Enforcement Action Date	Penalty Assessed	Comp Action Cost
NVD980895338	Compliance Evaluation Inspection	State	04/14/2016	No Violation Identified	--	--	--				
NVD980895338	Compliance Evaluation Inspection	EPA	04/14/2016	265.I: TSD IS-Container Use and Management	EPA	04/14/2016	08/18/2016	Receive Facility Documentation	08/18/2016	--	--
				273.C: Universal Waste - Large Quantity Handlers	EPA	04/14/2016	08/18/2016				
				PCR: Permit Condition or Requirement	EPA	04/14/2016	08/18/2016				
NVD980895338	*Focused Compliance Inspection*	*State*	*03/02/2016*	262.D: Generators - Records/Reporting	NV	03/02/2016	04/05/2016	Written Informal	04/04/2016	--	--

Entries in italics are not counted as compliance monitoring strategy activities. For programs without compliance monitoring strategies, entries in italics are not counted as on-site activities within EPA's Annual Results.

Compliance Monitoring History

Last 5 Years

Statute	Source ID	System	Activity Type	Compliance Monitoring Type	Lead Agency	Date	Finding (if applicable)
CWA	*NVIS01083*	*ICIS-NPDES*	*Inspection/Evaluation*	*Construction Stormwater - Self-Certification Verification*	*State*	*02/02/2021*	
RCRA	NVD980895338	RCRAInfo		Compliance Evaluation Inspection	State	09/18/2025	Undetermined, Agency May Still be Determining
RCRA	*NVD980895338*	*RCRAInfo*		*Non-Financial Record Review*	*State*	*07/16/2025*	*No Violations Or Compliance Issues Were Found*
RCRA	*NVD980895338*	*RCRAInfo*		*Non-Financial Record Review*	*State*	*07/10/2025*	*Violations Or Compliance Issues Were Found*
RCRA	*NVD980895338*	*RCRAInfo*		*Non-Financial Record Review*	*State*	*06/30/2025*	*No Violations Or Compliance Issues Were Found*
RCRA	*NVD980895338*	*RCRAInfo*		*Non-Financial Record Review*	*State*	*06/17/2025*	*Violations Or Compliance Issues Were Found*
RCRA	*NVD980895338*	*RCRAInfo*		*Non-Financial Record Review*	*State*	*06/13/2025*	*Violations Or Compliance Issues Were Found*
RCRA	*NVD980895338*	*RCRAInfo*		*Non-Financial Record Review*	*State*	*03/12/2025*	*No Violations Or Compliance Issues Were Found*
RCRA	NVD980895338	RCRAInfo		Groundwater Monitoring Evaluation	State	02/20/2025	Violations Or Compliance Issues Were Found
RCRA	NVD980895338	RCRAInfo		Compliance Evaluation Inspection	State	09/17/2024	Undetermined, Agency May Still be Determining
RCRA	NVD980895338	RCRAInfo		Compliance Evaluation Inspection	State	06/30/2021	Violations Or Compliance Issues Were Found

Entries in italics are not included in ECHO's Compliance Monitoring Activity counts because they are not compliance monitoring strategy <https://www.epa.gov/compliance/compliance-monitoring-programs> *activities or because they are not counted as inspections within EPA's Annual Results* <https://www.epa.gov/enforcement/enforcement-data-and-results>.

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
CWA	NVIS01083	No	06/30/2025	0	10/10/2025
CWA	NVIS48497	No	06/30/2025	0	10/10/2025
RCRA	NVD980895338	No	10/11/2025	3	10/10/2025

Three-Year Compliance History by Quarter

Statute	Program/Pollutant/Violation Type	QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11
CWA (Source ID: NVIS01083)		07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24	07/01-09/30/24	10/01-12/31/24	01/01-03/31/25
	Facility-Level Status	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified
	Quarterly Noncompliance Report History											
CWA (Source ID: NVIS48497)		07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24	07/01-09/30/24	10/01-12/31/24	01/01-03/31/25
	Facility-Level Status	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified
	Quarterly Noncompliance Report History											

Statute	Program/Pollutant/Violation Type		QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 1
RCRA (Source ID: NVD980895338)			10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24	07/01-09/30/24	10/01-12/31/24	01/01-03/31/25	04/01-06/
	Facility-Level Status		No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	Violation Identified	Violati Identifi
	Violation	Agency											
RCRA	PCR: Permit Condition or Requirement	NV											06/17/2
RCRA	270.B: Permits - Application	NV											06/17/2

Statute	Program/Pollutant/Violation Type		QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 1
RCRA	264.J: TSD - Tank System Standards	NV											06/17/2
RCRA	264.F: TSD - Releases from SWMUs	NV										02/20/2025	→
RCRA	264.F: TSD - Releases from SWMUs	NV										02/20/2025	→
RCRA	264.F: TSD - Releases from SWMUs	NV										02/20/2025	→
RCRA	264.F: TSD - Releases from SWMUs	NV										02/20/2025	→
RCRA	PCR: Permit Condition or Requirement	NV											
RCRA	264.F: TSD - Releases from SWMUs	NV										02/20/2025	→
RCRA	PCR: Permit Condition or Requirement	NV											06/13/2(06/13/2
RCRA	264.E: TSD - Manifest/Records/Reporting	NV											06/13/2(06/13/2
RCRA	270.C: Permits - Conditions	NV											06/13/2(06/13/2
RCRA	264.E: TSD - Manifest/Records/Reporting	NV											06/13/2

Informal Enforcement Actions

Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date
RCRA	*RCRAInfo*	*NVD980895338*	*VERBAL INFORMAL*	*State*	*07/17/2025*
RCRA	RCRAInfo	NVD980895338	FAILURE TO COMPLY WITH INFORMAL ENFORCEMENT ACTION	State	07/08/2025
RCRA	RCRAInfo	NVD980895338	WRITTEN INFORMAL	State	07/03/2025
RCRA	RCRAInfo	NVD980895338	WRITTEN INFORMAL	State	06/17/2025
RCRA	RCRAInfo	NVD980895338	WRITTEN INFORMAL	State	02/20/2025
RCRA	*RCRAInfo*	*NVD980895338*	*VERBAL INFORMAL*	*State*	*06/30/2021*

Entries in italics are not counted as "informal enforcement actions" in EPA policies pertaining to enforcement response tools.

Formal Enforcement Actions

Last 5 Years

Statute	System	Law/ Section	Source ID	Type of Action	Case No.	Lead Agency	Case Name	Issued/ Filed Date	Settlements/ Actions	Settlement/ Action Date	Federal Penalty Assessed	State/ Local Penalty Assessed	Penalty Amount Collected	SEP Value	Comp Action Cost

No data records returned

Environmental Conditions

Watersheds

12-Digit WBD (Watershed Boundary Dataset) HUC (RAD (Reach Address Database))	WBD (Watershed Boundary Dataset) Subwatershed Name (RAD (Reach Address Database))	State Water Body Name (ICIS (Integrated Compliance Information System))	Beach Closures Within Last Year	Beach Closures Within Last Two Years	Pollutants Potentially Related to Impairment	Watershed with ESA (Endangered Species Act)-listed Aquatic Species?
160501040102	Town of Fernley	UNKNOWN/UNNAMED	No	No	--	Yes

Assessed Waters From Latest State Submission (ATTAINS)

State	Report Cycle	Assessment Unit ID	Assessment Unit Name	Water Condition	Cause Groups Impaired	Drinking Water Use	Ecological Use	Fish Consumption Use	Recreation Use	Other Use

No data records returned

Air Quality Nonattainment Areas

Pollutant	Within Nonattainment Status Area?	Nonattainment Status Applicable Standard(s)	Within Maintenance Status Area?	Maintenance Status Applicable Standard(s)

No data records returned

Pollutants

Toxics Release Inventory History of Reported Chemicals

Air Pollutant Report TRI Pollution Prevention Report

Released or Transferred in Pounds per Year at Site

TRI Facility ID	Year	Air Emissions	Surface Water Discharges	Off-Site Transfers to POTWs (Publicly Owned Treatment Works)	Underground Injections	Disposal to Land	Total On-Site Releases	Total Off-Site Transfers
89408CNTRY2095N	2024	33	--	0	--	--	33	536,393
89408CNTRY2095N	2023	66	--	0	--	--	66	22,713
89408CNTRY2095N	2022	50	--	0	--	--	50	51,627
89408CNTRY2095N	2021	50	--	0	--	--	50	333,791
89408CNTRY2095N	2020	51	--	0	--	--	51	281,541
89408CNTRY2095N	2019	49	--	0	--	--	49	361,690
89408CNTRY2095N	2018	0	--	0	--	--	0	105,109
89408CNTRY2095N	2017	250	--	0	5	--	255	138,222
89408CNTRY2095N	2016	250	--	0	0	--	250	62,795
89408CNTRY2095N	2015	--	--	0	--	--	0	1,525

Toxics Release Inventory Total Releases and Transfers in Pounds by Chemical and Year

Chemical Name	2024	2023	2022	2021	2020	2019	2018	2017	2016	2015
Ammonia	--	--	--	30,380	23,500	24,600	19,900	--	--	--
Chromium compounds (except for chromite ore mined in the Transvaal Region)	3,839	3,846	14,461	50,133	61,101	34,001	26,800	18,805	26,900	--
Copper compounds	--	--	--	34,856	17,000	--	--	--	--	--
Hydrogen fluoride	20	16	--	--	--	--	--	--	--	--
Lead compounds	529,984	831	1,125	8,537	6,300	--	2,000	1,800	4,300	1,500
Mercury	--	--	--	--	--	--	9	22	95	25
Mercury compounds	171	3	6	--	41	--	--	--	--	--
Nickel compounds	600	2,503	5,187	14,232	11,901	--	--	--	--	--
Nitrate compounds (water dissociable; reportable only when in aqueous solution)	1,812	15,581	30,899	195,704	161,749	303,139	56,400	117,850	31,750	--
Nitric acid	0	0	0	0	R	R	R	--	--	--

CWA (Clean Water Act) Discharge Monitoring Report (DMR) Pollutant Loadings

DMR and TRI Multi-Year Loading Report

NPDES ID	Description

No data records returned

e-Manifest Hazardous Waste History (Public)

Hazardous Waste Shipped in Kilograms by Year (Through 7/12/2025)

Source ID	Waste Description	2022	2023	2024	2025
NVD980895338	Hazardous Waste	4,062,352 - 4,067,781	2,982,182	1,841,099	1,124,367
NVD980895338	Acute Hazardous Waste	13 - 76,819	401 - 31,008	230 - 14,556	21 - 4,950
NVD980895338	Pharmaceutical Hazardous Waste	0 - 5,429	0	0	0

“Pharmaceutical Hazardous Waste” refers to quantities managed under 40 CFR part 266 subpart P and thus excluded from the Hazardous and Acute Hazardous Waste quantities shown above.

Community

Demographic Profile of Surrounding Area (1-Mile Radius)

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 2022 American Community Survey (ACS) 5-year Summary and are accurate to the extent that the facility latitude and longitude listed below are correct. Census boundaries and demographic data for U.S. Territories are based on the "2020 Island Areas Demographic Profiles" from the U.S. Census Bureau. EPA’s spatial processing methodology considers the overlap between the selected radii and ACS census block groups in determining the demographics surrounding the facility. For more detail about this methodology, see the DFR Data Dictionary <https://epa.gov/help/reports/dfr-data-dictionary#demographic>.

General Statistics (ACS (American Community Survey))	
Total Persons	663
Population Density	245/sq.mi.
Housing Units in Area	269
Percent People of Color	28%

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	34 (5%)
Minors 17 years and younger	139 (21%)
Adults 18 years and older	524 (79%)
Seniors 65 years and older	63 (10%)

General Statistics (ACS (American Community Survey))	
Households in Area	266
Households on Public Assistance	5
Persons With Low Income	210
Percent With Low Income	32%
Geography	
Radius of Selected Area	1 mi.
Center Latitude	39.61033
Center Longitude	-119.20296
Total Area	3.121 sq.mi.
Land Area	87%
Water Area	13%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	20 (7.49%)
$15,000 - $25,000	3 (1.12%)
$25,000 - $50,000	80 (29.96%)
$50,000 - $75,000	66 (24.72%)
Greater than $75,000	98 (36.7%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	531 (80%)
African-American	15 (2%)
Hispanic-Origin	157 (24%)
Asian	12 (2%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	2 (0%)
Other/Multiracial	67 (10%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	16 (3.68%)
9th through 12th Grade	43 (9.89%)
High School Diploma	158 (36.32%)
Some College/2-year	122 (28.05%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	67 (15.4%)