MISSION STATEMENTS

The mission of the Department of the Interior is to protect and manage the nation’s natural resources and cultural heritage; provide scientific and other information about those resources; and honor its trust responsibilities or special commitments to American Indians, Alaska natives, and affiliated island communities.

The mission of the Bureau of Reclamation is to manage, develop, and protect water and related resources in an environmentally and economically sound manner in the interest of the American public.
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Public Involvement, Consultation and Coordination

List of Preparers

Glossary
A.1 Public Involvement, Consultation and Coordination

A.1.1 Introduction
This section details the consultation and coordination among Reclamation and other Federal, State, and local agencies, Indian tribes, and the public in preparing this EIS. The NOI to prepare this EIS was published in the Federal Register on September 10, 2012 (77 FR 175). Since then, Reclamation has solicited input from a broad range of constituencies as part of the ongoing public involvement process.

Reclamation sought comments and involvement during the planning and preparation of this EIS through the following actions, inviting input from the general public:

- Communication and consultation with a variety of Federal, State, and local agencies, Native American Indian tribes, and interest groups, including cooperating agencies
- The formal EIS scoping process
- DEIS public comment period
- PVU EIS project website

A.1.2 Public Outreach and Involvement
The public had specific opportunities to comment during two phases. Public scoping began with publication of an NOI to prepare the EIS in the Federal Register on September 10, 2012 and ended on November 26, 2012. Public review of and comment on the DEIS began with publication of a notice of availability for the DEIS on December 6, 2019 and ended on February 19, 2020.

Reclamation held three public meetings during the scoping period. The purpose of the meetings was to provide the public with opportunities to become involved, to learn about the PVU project and planning process, and to offer comments. Public input received during the scoping period is summarized in two scoping reports (Reclamation 2013, 2016a) available on the PVU EIS website (https://www.usbr.gov/uc/progact/paradox/index.html). These scoping reports provide additional details on the outcomes of public scoping, project development, and analysis of alternatives (Reclamation 2013, 2016a).

Reclamation published a notice of availability announcing the release of the Draft EIS in the Federal Register on December 6, 2019, initiating the formal 45-day public comment period that would have ended on
February 4, 2020. At the request of the Colorado River Basin Salinity Control Forum, the comment period was extended an additional 15 days to February 19, 2020.

During the comment period, Reclamation held two public open house meetings in Paradox and Montrose, Colorado. At these meetings, the agency provided attendees with a brief overview of the project alternatives and helpful information about making effective comments. A total of 53 people attended the two meetings.

Reclamation received 800 submissions during the public comment period. Additional detail on the submissions received and Reclamation’s responses to these submissions can be found in the public comment report, Appendix N.

A.1.3 Cooperating Agency Involvement

The following 18 agencies are cooperating agencies for this FEIS:

Federal:
- BLM
- USACE
- EPA
- USFWS
- USGS

State:
- Arizona Department of Water Resources
- Colorado Department of Natural Resources
- CDPHE
- Colorado River Board of California
- Colorado River Commission of Nevada
- New Mexico Interstate Stream Commission
- Utah Department of Environmental Quality
- Wyoming Department of Environmental Quality
- Wyoming State Engineer’s Office

Quasi-State and Local:
- Montrose County, Colorado
- Colorado River Water Conservation District
- Southern Nevada Water Authority
- Southwestern Water Conservation District

Cooperating agencies provide information, expertise, and review of working documents. Reclamation hosted periodic cooperating agency meetings throughout the preparation of this EIS to ensure that all the agencies were informed of and involved in the issues and analyses. Reclamation also held site visits in Paradox Valley with the cooperating agencies, as well as additional coordination meetings with the BLM, USFWS, USACE, and CDPHE. All cooperating agencies have reviewed and commented on this EIS.
A.1.4 **Tribal Coordination**
In 2018, Reclamation sent letters to Native American Indian tribes that could have an interest in the project. It invited the tribes to meet with Reclamation to discuss the identification of properties of religious or cultural significance that could be affected by the project. Letters were sent to the Hopi Tribe, the Southern Ute Indian Tribe, the Ute Indian Tribe, the Ute Mountain Ute Tribe, and Zuni Pueblo. All five tribes indicated an interest in being involved with the project as it progresses. In 2019, based on the Class I overview results, Navajo Nation was also identified as a potential interested tribe.

In 2019, Reclamation invited these same tribes to participate in the development of the Programmatic Agreement and the Native American Graves Protection and Repatriation Act of 1990 Plan of Action developed for the project. Reclamation would continue to involve the tribes and to coordinate and consult with them if a preferred alternative were identified in a ROD.

A.1.5 **Other Consultation and Coordination**
If a preferred alternative were identified in a ROD, Reclamation would further coordinate and consult with the USFWS to comply with Section 7 of the Endangered Species Act, with the USACE to comply with Section 404 of the CWA, and with the Colorado SHPO to comply with the NHPA, as required (see **Table 2-6**).

A.2 **List of Preparers**
Reclamation, Western Colorado Area Office, Interior Region 7: Upper Colorado Basin (WCAO) in Grand Junction, Colorado, prepared this FEIS. It had assistance from the following:

- Reclamation Interior Region 7: Upper Colorado Basin office in Salt Lake City, Utah
- Technical Service Center (TSC) in Denver, Colorado
- Paradox Facility Office in Bedrock, Colorado
- Western Colorado Area Office in Durango, Colorado
- Environmental Management and Planning Solutions, Inc. (EMPSi) in Boulder, Colorado

BLM staff from the Uncompahgre Field Office, Tres Rios Field Office and Colorado State Office provided BLM resources analyses.

The names of persons who prepared various sections, provided extensive background information, or participated to a significant degree in reviewing the present document are listed below.
<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Office</th>
<th>FEIS Responsibility</th>
</tr>
</thead>
<tbody>
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<td>Upper Colorado Region</td>
<td>Paradox FEIS Upper Colorado Region lead, socioeconomic resources team lead, general FEIS documentation, mining, solid waste, hazardous waste, and environmental media, environmental justice, cumulative impacts</td>
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<tr>
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<td>WCAO</td>
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</tr>
<tr>
<td>Kristin Bowen</td>
<td>Lead Archaeologist</td>
<td>WCAO-Durango</td>
<td>Cultural resources, tribal coordination</td>
</tr>
<tr>
<td>Christopher K. Wood</td>
<td>Geophysicist</td>
<td>TSC</td>
<td>Injection well geotechnical investigations, geology and geologic hazards</td>
</tr>
</tbody>
</table>
A.3 Glossary

**Acre-foot.** The amount of water that would cover 1 acre with 1 foot of water. One acre foot is equal to 0.326 million gallons.

**Adaptive management.** The adaptive management approach referenced in this FEIS is described in the Predictive Ecological Risk Assessment, and involves active and passive methods, including barriers (netting...
and wires), hazing of various types, and providing alternative habitat. These various potential methods are discussed with regard to their applicability to the proposed PVU facility within the context of an adaptive management system (Amec 2016b).

**Adverse effects to historic properties.** Under Section 106, when an undertaking may directly or indirectly alter characteristics of a historic property that qualify it for inclusion in the National Register in a manner that would diminish the integrity of the property’s location, design, setting, materials, workmanship, feeling, or association, it is considered an adverse effect.

**Air pollutant emission notice (APEN).** Colorado submittal requirement for state sources of air pollutant emissions, applications for new permits, or modifications of permits. For example, any business in Colorado that emits air pollution may be required to report its emissions and/or apply for a permit.

**Ambient air quality.** The state of the atmosphere at ground level as defined by the range of measured and/or predicted ambient concentrations of all significant pollutants for all averaging periods of interest.

**Annual average daily traffic (AADT).** The total volume of vehicle traffic of a highway or road for a year divided by 365 days.

**Anticlines.** A ridge-shaped fold of stratified rock in which the strata slope downward from the crest. A typical anticline is convex up in which the hinge or crest is the location where the curvature is greatest, and the limbs are the sides of the fold that dip away from the hinge.

**ArcGIS.** A geographic information system for working with maps and geographic information.

**Artifact.** A human-modified object, often appearing on an archaeological site that typically dates to over 45 years in age.

**Attainment area.** A geographic area in which levels of a criteria air pollutant meet the health-based National Ambient Air Quality Standard for that specific pollutant.

**Baseline.** The existing conditions as described in the Affected Environment; such conditions are prior to but do not include well closure/decommissioning.

**Best management practice (BMP).** A technique that guides or may be applied to management actions to aide in achieving desired outcomes.

**Bittern.** Concentrated salt and magnesium solution that remains after the evaporation and crystallization of salt from brines.

**Brine.** A high-concentration solution of salt in water.

**Cone of depression.** A cone-shaped area surrounding each production well where brine is drawn down toward the well for collection.

**Consumptive use.** The amount of water used up by applying that water to beneficial use. Examples are water for drinking and water taken up by growing crops.
Criteria pollutants. The EPA uses six “criteria pollutants” as indicators of air quality, and has established for each of them a maximum concentration above which adverse effects on human health may occur. These threshold concentrations are called National Ambient Air Quality Standards. The criteria pollutants are ozone, carbon monoxide, nitrogen dioxide, sulfur dioxide, particulate matter and lead.

Critical habitat. Specific geographic areas, whether occupied by listed species or not, that are determined to be essential for the conservation and management of listed species and that have been formally described in the Federal Register.

Cultural resources. Physical evidence or location of past human activity. A site, object, structure, landscape, or natural feature of significance to a group of people traditionally associated with it. These resources are fragile and non-renewable, and embody characteristics and information specific to the period in which a cultural group lived.

Curtail. To reduce in extent or quantity; impose a restriction on.

Data Analysis Unit. The areas identified by CPW for a herd or local population as the area necessary to carry out all life functions.

Downthrown sides. The sinking of rocks on one side of a fault plane; the side of a fault that appears to have moved downward relative to the other side.

Easement. A right, such as a right-of-way, allows a person to make limited use of another's real property.

Emergent wetland. Wetland type that contains emergent plants (erect, rooted, herbaceous, and water loving) as the tallest life form with at least 30 percent coverage.

Energy demand. The consumption of energy by human activity. Human energy demand influences the total amount of energy used, the location of, and types of fuel used in, the energy system, and the characteristics of the end use technologies that consume energy.

Energy use. The amount of energy or power used. Energy use refers to all of the energy harnessed from every energy source, applied to a particular endeavor.

Environmental Protection Agency. An independent agency of the United States Federal government for environmental protection. The agency is led by its Administrator, who is appointed by the President and approved by Congress.

Ephemeral. A drainage basin or stream that flows during storms or other wet times. Typically not supplied by groundwater.

Evaporites. A natural salt or mineral deposit left after the evaporation of a body of water; A water-soluble sediment that results from concentration and crystallization by evaporation from an aqueous solution.

Federal action. An action by a Federal agency. This may include supplying funding for a project, authorizing or permitting a project, or undertaking or sponsoring a project.
Floodplain. Flat areas next to rivers and streams that are subject to inundation from precipitation. Any area that can be inundated with water. In this FEIS, a floodplain can refer to either an area having unique vegetative or channel characteristics caused by flooding or a regulatory area, generally the 1 percent annual change (100-year) flood.

Free-flowing. Under the Wild and Scenic Rivers Act, “free-flowing” as applied to any river or section of a river means existing or flowing in a natural condition without impoundment, diversion, straightening, riprapping, or other modification of the waterway.

Fugitive dust. Significant atmospheric dust arises from the mechanical disturbance of granular material exposed to the air. Dust generated from these open sources is termed “fugitive” because it is not discharged to the atmosphere in a confined flow stream. Common sources of fugitive dust include unpaved roads, agricultural tilling operations, aggregate storage piles, and heavy construction operations.

Groundwater. Water found under ground in porous rock strata and soils.

Hazardous material. A secondary material (e.g., spent material, by-product, or sludge) that, when discarded, would be identified as hazardous waste.

Hazardous Substance. Any biological agent and other disease-causing agent which after release into the environment and upon exposure, ingestion, inhalation, or assimilation into any person...will or may reasonably be anticipated to cause death, disease, behavioral abnormalities, cancer, genetic mutation, physiological malfunctions...or physiological deformations in such persons or their offspring.

Hazardous waste. Waste with properties that make it dangerous or capable of having a harmful effect on human health or the environment. Hazardous waste is generated from many sources, ranging from industrial manufacturing process wastes to batteries and may come in many forms, including liquids, solids, gases, and sludges.

Historic properties. Cultural resources—such as historic buildings, structures, objects, districts, or archaeological sites—that are listed on, or eligible for inclusion on, the National Register of Historic Places.

Hogan. Primary, traditional dwelling unit of the Navajo people.

Impaired water. A water body that repeatedly exceeds regulatory water quality limits in one or more types of contamination or conditions.

Indian trust assets. Legal interests in property held in trust by the United States for the beneficial interest of Federally recognized Indian Tribes or individual Indians.

Joints. A fracture dividing rock into two sections that moved away from each other.

Key observation point (KOP). One of a series of critical viewpoints on a travel route or at a use area where the proposed project would be most revealing. This is usually along commonly traveled routes or at other likely observation points, such as culturally or locally significant sites.
Lands with Wilderness Characteristics. Public lands outside of WSAs and designated WAs, which, pursuant to its planning guidelines, BLM has inventoried and determined to contain wilderness characteristics as defined in section 2(c) of the Wilderness Act.

Leadville Formation. A geologic formation in Colorado. It is a major producing Mississippian (Leadville) carbonate sequence unit, and preserves fossils dating back to the Carboniferous period. Paleokarsts have developed upon the Leadville Formation. Caverns, sinkholes, solution- enlarged vertical joints (cutters), channelways, and breccia-rubble soil zones typify the karst-solution features, which occur extensively throughout central Colorado.

Lek. A patch of ground used for communal display in the breeding season by the males of certain birds and mammals, especially black grouse. Each male defends a small territory in order to attract females for mating.

Long-term impacts. Impacts that would occur beyond construction and from operation of the proposed facilities.

Loss. Loss of water that results from such factors as system loss and evaporation.

Manos and Metates. A metate is a type of ground stone tool used for processing grain and seeds. The mano is a hand tool used often with a metate to process the grain and seeds by hand.

Mil. A unit of length equal to 0.001 of an inch.

Minor source permit. Permit issued for a facility that has the potential to emit pollutants in amounts less than the corresponding major source threshold under the Clean Air Act New Source Review (NSR) program, which requires industrial facilities to install modern pollution control equipment when they are built or when making a change that increases emissions significantly.

Mitigation measure. A measure taken to offset the adverse impacts of an action or activity.

National Ambient Air Quality Standard (NAAQS). The specified average concentration of an air pollutant in ambient air during a specified time period, at or above which level the public health may be at risk. National ambient air quality standards have been set for the following criteria pollutants: carbon monoxide, nitrogen dioxide, ozone, sulfur dioxide, lead, and two categories of particulate matter (particulate matter with an aerodynamic diameter of 10 microns or less [PM$_{10}$] and particulate matter with an aerodynamic diameter of 2.5 microns or less [PM$_{2.5}$]).

National Register of Historic Places (NRHP). A listing of resources that are considered significant at the national, state, or local level and that have been found to meet specific criteria of historic significance, integrity, and age.

National Pollutant Discharge Elimination System (NPDES). A program created by the Clean Water Act of 1972 that regulates discharge of pollutants into public waters.

Non-attainment area. An area considered to have air quality worse than the National Ambient Air Quality Standards as defined in the Clean Air Act Amendments of 1970.
**Paleontological resource.** Any fossilized remains or traces of organisms that are preserved in, or on, the earth’s crust, that are of scientific interest and that provide information about the history of life.

**Particulate matter.** One of the six “criteria” pollutants for which the EPA established National Ambient Air Quality Standards. Particulate matter is defined as two categories, fine particulates, with an aerodynamic diameter of 10 micrometers (PM$_{10}$) or less, and fine particulates with an aerodynamic diameter of 2.5 micrometers or less (PM$_{2.5}$).

**Parts per million (ppm).** Parts per million, a measure of the amount of one substance found in a second, which is the carrier.

**Perennial stream.** A stream that flows continuously throughout the year.

**Phreatophyte.** Any plant species that obtains a significant portion of the water that it needs to survive from the zone of saturation or the capillary fringe above the zone of saturation. These species are found in riparian ecosystems and other areas characterized by shallow groundwater, such as bottomlands.

**Plastic flow.** A solid mechanics theory that is used to describe the plastic behavior of materials. Flow plasticity theories are characterized by the assumption that a flow rule exists that can be used to determine the amount of plastic deformation in the material.

**Pool.** Aquatic habitat in a stream with low gradient that is normally deeper and wider than aquatic habitats immediately above and below it.

**Precipitate.** Cause a substance to be deposited in solid form from a solution.

**Project area(s).** The actual footprint of proposed project facilities. These locations are not known, but they may be discussed in the impact analysis.

**Project component.** Components include things such as firm, reliable water supply, water treatment, short-term storage, and electrical power service.

**Qualitative.** A form of assessment that analyzes the impacts in a descriptive manner (e.g., low, moderate, or high).

**Quantitative.** A form of impact assessment that analyzes the impacts using numerical metrics (e.g., acres or cubic feet per second).

**Reclamation lands.** Any federal real property under the jurisdiction of or administered by Reclamation, and includes, but is not limited to, all acquired and withdrawn lands and lands in which Reclamation has a lease interest, easement, or right-of-way.

**Recreational experience.** Psychological outcome resulting from on-site leisure engagements and interactions.

**Recreational opportunities.** Ability to engage in a leisure activity.
Return flow. Water that returns to streams and rivers after it has been applied to beneficial use. Return flows may return as surface flow or as an inflow of tributary groundwater.

Right-of-way (ROW). The legal right of a party to pass over or use land owned by another party for a particular purpose.

Riparian. Areas along creeks or streams and between the aquatic and terrestrial environment; river-influenced.

Salt diapiric. A type of structural dome formed when a thick bed of evaporite minerals (mainly salt, or halite) found at depth intrudes vertically into surrounding rock strata, forming a diapir. It is important in petroleum geology because salt structures are impermeable and can lead to the formation of a stratigraphic trap.

SCADA system. Supervisory Control and Data Acquisition (SCADA) is a control system architecture that uses computers, networked data communications and graphical user interfaces for high-level process supervisory management, but uses other peripheral devices such as programmable logic controller (PLC) and discrete PID controllers to interface with the process plant or machinery. The use of SCADA has been also considered for management and operations of project-driven-process in construction.

Section 404 permit. An authorization granted by the U.S. Army Corps of Engineers under Section 404 of the Clean Water Act to place dredge or fill material in a Water of the United States.

Sedimentation. The transport of sediment into a water body.

Sensitive soils. A collection of soil types whose properties give them special cause of consideration and analysis. These soil types are erosive soil, corrosive soil, or expansive clay.

Short-term impacts. Those that would generally occur during construction.

Sodium Chloride. An inorganic compound with the chemical formula NaCl, representing a 1:1 ratio of sodium and chloride ions.

Solid waste. Any garbage or refuse, sludge from a wastewater treatment plant, water supply treatment plant, or air pollution control facility and other discarded material, resulting from industrial, commercial, mining, and agricultural operations, and from community activities.

Special status species. State or Federal threatened or endangered species, as well as proposed or candidate species for threatened or endangered status.

Strikes. The direction of the line formed by the intersection of a rock surface with a horizontal plane.

Study area(s). The larger area(s) that project facilities may be sited in. These are shown as polygons on maps now. An individual alternative has a study area, and all of the alternatives combined have study areas.

Storage right. A water right that is measured in terms of volume. Storage rights allow a water user to store water for later beneficial use.
**Stormwater best management practice.** A set of treatment or prevention activities or constructed facilities intended to reduce pollutants entering public waters.

**Subordinated.** Made subservient to or dependent on.

**Surface water.** Water that flows on the surface, either in streams or as surface runoff across the ground.

**Total dissolved solids.** Combined content of all inorganic and organic substances contained in a liquid, which are present in a molecular, ionized, or micro-granular form. Primary sources of TDS are agricultural runoff, leaching of soil contamination, and point-source water pollution discharge from industrial or sewage treatment plants.

**Upland.** Hills, plains, mesas, or other areas not in riparian or wetland areas, where the vegetation is not supplied by hydrology from a stream or drainage.

**Vertical offset.** Vertical displacement between points on either side of a fault. The fault refers to the zone of fractures between two blocks of rock, and the vertical offset of a fault can cause the rocks to move.

**Water delivery.** The amount of water delivered to a water user.

**Water right.** A right to use, in accordance with its priority, a portion of the waters of the state by reason of the appropriation of the same.

**Waters of the United States.** As defined in the Clean Water Act, all waters that are currently used, or were used in the past, or may be susceptible to use in interstate or foreign commerce, including all waters that are subject to the ebb and flow of the tide. All interstate waters including interstate wetlands. All other waters, such as intrastate lakes, rivers, streams (including intermittent streams), mudflats, sandflats, wetlands, sloughs, prairie potholes, wet meadows, playa lakes, or natural ponds, whose use, degradation, or destruction could affect interstate or foreign commerce.

**Well shut-ins.** The procedure of closing off a well so that the well stops producing.

**Wetland.** Area near the margin between water and land (such as swamps and marshes) that is wet enough to support plant growth typically found in saturated soil conditions.

**Withdrawal.** Withholding an area of Federal land from settlement, sale, location, or entry under some or all of the general land laws, for the purpose of limiting activities under those laws in order to maintain other public values in the area or reserving the area for a particular public purpose or program; or transferring jurisdiction over an area of Federal land, other than property governed by the Federal Property and Administrative Services Act (40 U.S.C. 472), from one department, bureau or agency to another department, bureau or agency.

**Withdrawal with Transfer of Jurisdiction.** The transfer of the jurisdiction of lands from the Bureau of Land Management to the Bureau of Reclamation, as it pertains to the Paradox Valley Unit.

**Yield.** The amount of water that a water right supplies under a defined scenario.
Appendix B – Figures

ES-1  Action Alternative Study Areas

2-1  Alternative A Paradox Valley Unit Existing Facilities
2-2  Alternative B New Injection Well Area B1
2-3  Alternative B New Injection Well Area B2
2-4  Alternative B Potential 3D Seismic Survey Area
2-5  Conceptual Schematic of Two Options for an Injection Well at Area B1 (included in Chapter 2)
2-6  Alternatives C Evaporation Ponds
2-7  Conceptual Layout of the Proposed Evaporation Pond Complex
2-8  Alternative D Zero Liquid Discharge
2-9  Conceptual Layout of the Proposed ZLD Facilities
2-10 Flow Diagram of a ZLD Crystallizer Process (included in Chapter 2)

3-1  Colorado River Basin Salinity Numeric Criteria Stations
3-2  Areas of Special Designation

4-1  General Cumulative Impacts Analysis Area
4-2  Air Quality, Odors, and Meteorology and Climate Cumulative Impacts Analysis Area
4-3  Energy Demand and Utility Systems Cumulative Impacts Analysis Area
4-4  Geology and Geologic Hazards Cumulative Impacts Analysis Area
4-5  Surface Water and Water Rights and Water Quality Cumulative Impacts Analysis Area
4-6  Vegetation and Terrestrial and Aquatic Wildlife Cumulative Impacts Analysis Area
4-7  Big Game Cumulative Impacts Analysis Area
4-8  Federally Listed Species Cumulative Impacts Analysis Area
4-9  Areas of Special Designation - WSRs Cumulative Impacts Analysis Area
4-10 Areas of Special Designation – WSAs Cumulative Impacts Analysis Area
4-11 Noise Cumulative Impacts Analysis Area
4-12 Cultural Resources Cumulative Impacts Analysis Area
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Figure 2-1

Alternative A
Paradox Valley Unit
Existing Facilities

- Brine Pipeline
- Production Well Pipeline
- Electroconductivity Stations
- Brine Production Wells

USGS Gage and Electroconductivity Stations
- Dolores River near Bedrock (SID 09171100)
- Dolores River at Bedrock (SID 09169500)

Land Ownership
- Bureau of Land Management
- Private Land
- Bureau of Reclamation

Sources: BLM, BOR, Montrose County, ESRI
NAD 1983 State Plane Colorado South
EIS_AlternativeA.pdf
Reclamation GIS, 2019

DISCLAIMER: No warranty is made by the Bureau of Reclamation as to the accuracy, reliability, or completeness of these data. This information may not meet National Map Accuracy Standards. This project was developed through digital means and may be updated without notice.
Map produced by Western Colorado Area Office, Bureau of Reclamation, Grand Junction, CO.
Figure 2-2

Alternative B
New Injection Well
Area B1

Features
- Proposed New Access and Utilities Route
- Existing Brine Pipeline
- Study Area

Land Ownership
- Bureau of Land Management
- Private Land
- Bureau of Reclamation

Sources: BLM, BOR, Montrose County, ESRI
NAD 1983 State Plane Colorado South
EIS_AlternativeB1.pdf
Reclamation GIS, 2019

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Reclamation as to the accuracy, reliability, or completeness
of these data. This information may not meet National Map
Accuracy Standards. This project was developed through digital means
and may be updated without notice. Map produced by Western Colorado Area Office,
Bureau of Reclamation, Grand Junction, CO.
Alternative B
New Injection Well
Area B2

Features
- Potential Locations of Pump Stations
- Proposed Brine Pipeline to Monogram Mesa
- Proposed Brine Pipeline to Fawn Springs Bench
- Study Area

Land Ownership
- Bureau of Land Management
- Private Land
- Bureau of Reclamation

Sources: BLM, BOR, Montrose County, ESRI
NAD 1983 State Plane Colorado South
EIS Alternative B2.pdf
Reclamation GIS, 2019

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Map produced by Western Colorado Area Office, Bureau of Reclamation, Grand Junction, CO.
Figure 2-5 Conceptual Schematic of Two Options for an Injection Well at Area B1

 Included in Chapter 2
Alternative C
Evaporation Ponds

Features
- Proposed Brine Pipeline
- Proposed Fresh Water Pipeline
- Study Area

Land Ownership
- Bureau of Land Management
- Private Land
- Bureau of Reclamation

Sources: BLM, BOR, Montrose County, ESRI
NAD 1983 State Plane Colorado South
EIS_AlternativeC.pdf
Reclamation GIS, 2019

DISCLAIMER: No warranty is made by the Bureau of Reclamation as to the accuracy, reliability, or completeness of these data. This information may not meet National Map Accuracy Standards. This project was developed through digital means and may be updated without notice. Map produced by Western Colorado Area Office, Bureau of Reclamation, Grand Junction, CO.
Figure 2-7

Conceptual Layout of the Proposed Evaporation Pond Complex

- **Evaporation Pond Layout**
- **Brine Pipeline**
- **Fresh Water Pipeline**
- **Evaporation Ponds Project Area**

**Land Ownership**
- **Bureau of Land Management**
- **Private Land**

Sources: BLM, BOR, Montrose County, ESRI
NAD 1983 State Plane Colorado South
EIS_AltCPondLayout.pdf
Reclamation GIS, 2019

DISCLAIMER: No warranty is made by the Bureau of Reclamation as to the accuracy, reliability, or completeness of these data. This information may not meet National Map Accuracy Standards. This project was developed through digital means and may be updated without notice. Map produced by Western Colorado Area Office, Bureau of Reclamation, Grand Junction, CO.
**Figure 2-8**

Alternative D
Zero Liquid Discharge

**Features**

- Proposed Natural Gas Pipeline
- Proposed Brine and Service Water Supply Pipelines
- Produced Freshwater Return Pipe
- Study Area

**Land Ownership**

- Bureau of Land Management
- Private Land
- Bureau of Reclamation

Sources: BLM, BOR, Montrose County, ESRI
NAD 1983 State Plane Colorado South
EIS: AlternativeD.pdf
Reclamation CIS, 2019

DISCLAIMER: No warranty is made by the Bureau of Reclamation as to the accuracy, reliability, or completeness of these data. This information may not meet National Map Accuracy Standards. This project was developed through digital means and may be updated without notice. Map produced by Western Colorado Area Office, Bureau of Reclamation, Grand Junction, CO.
Figure 2-9

Conceptual Layout of the Proposed ZLD Facilities

- **ZLD Layout**
- **Produced Freshwater Return Pipe**
- **Proposed Natural Gas Pipeline**
- **Proposed Brine and Service Water Supply Pipelines**

**Land Ownership**
- Bureau of Land Management
- Private Land
- Bureau of Reclamation

**Sources:** BLM, BOR, Montrose County, ESRI
NAD 1983 State Plane Colorado South
ALID_ConsceptualLayout.slshapefile
Reclamation GIS, 2019

**DISCLAIMER:** No warranty is made by the Bureau of Reclamation as to the accuracy, reliability, or completeness of these data. This information may not meet National Map Accuracy Standards. This project was developed through digital means and may be updated without notice.

Map produced by Western Colorado Area Office, Bureau of Reclamation, Grand Junction, CO.
Figure 2-10  Flow Diagram of a ZLD Crystallizer Process

Included in Chapter 2
Figure 4-3

Energy Demand and Utility Systems
Cumulative Impacts Analysis Area

Selected Other
- BLM Field Office
- Uranium Leasing Program
- Energy Fuels Pithon Ridge Uranium Mill

Project Area
- Alternative B - Injection Well (Area)
- Alternative B - Injection Well (Area)
- Alternative C - Evaporation Ponds
- Alternative D - Zero Liquid Discharge

Sources:
BLM, BOR
Montrose County ESR
NAD 1983 State Plane Colorado
PVULS_EnergyDemand.pdf
Reclamation EIS, 2019

Disclaimer: No warranty is made by the
Bureau of Reclamation as to the accuracy, reliability,
or completeness of these data. This information may not meet
National Map Accuracy Standards. This project was developed
through digital means and may be updated without notice.

Map produced by Western Colorado Area Office,
Bureau of Reclamation, Grand Junction, CO.
Vegetation and Terrestrial and Aquatic Wildlife Cumulative Impacts Analysis Area

Selected Other Actions
- BLM Field Office Areas
- Uranium Leasing Program
- Energy Fuels Piñon Ridge Uranium Mill

Project Area
- Alternative B - Injection Well (Area B1)
- Alternative B - Injection Well (Area B2)
- Alternative C - Evaporation Ponds
- Alternative D - Zero Liquid Discharge

Land Ownership
- Bureau of Land Management
- Private
- Bureau of Reclamation

Sources: BLM, BOR, Monrovia County, ESRI
NAD 1983 State Plane Colorado
PVUE_88_Veg.pdf
Reclamation GFS, 2019
DISCLAIMER: No warranty is made by the Bureau of Reclamation as to the accuracy, reliability, or completeness of these data. This information may not meet National Map Accuracy Standards. This project was developed through digital means and may be updated without notice. Map produced by Western Colorado Area Office, Bureau of Reclamation, Grand Junction, CO.
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Appendix C – Distribution List

Recipients of the FEIS are listed below:

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<td>Wyoming Department of Environmental Quality</td>
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<td>Wyoming State Engineer's Office</td>
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<td>Colorado River Water Conservation District</td>
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<td>Montrose County Government Affairs &amp; Natural Resources</td>
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<td>Southwestern Water Conservation District</td>
<td>Durango, CO</td>
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**Federal Government Agencies**

| U.S. Bureau of Reclamation, Paradox Valley Field Office         | Bedrock, CO          |
| U.S. Bureau of Reclamation, Upper Colorado Regional Office      | Salt Lake City, UT   |
| U.S. Bureau of Reclamation, Western Colorado Area Office        | Durango, CO          |
| U.S. Department of the Interior, Office of Environmental Policy and Compliance, Denver Region | Denver, CO |
| U.S. Department of the Interior, Office of the Solicitor, Intermountain Region | Salt Lake City, UT |

**State Government Agencies**

<p>| ADOA, Office of Grants and Federal Resources                    | Phoenix, AZ          |
| California Department of Water Resources                        | Sacramento, CA       |
| California State Clearinghouse, Office of Planning and Research | Sacramento, CA       |
| Colorado Department of Transportation                           | Durango, CO          |
| Colorado Division of Water Resources                            | Denver, CO           |
| Colorado Oil and Gas Conservation Commission                    | Denver, CO           |
| Colorado Parks and Wildlife, Nucla District Wildlife Manager    | Nucla, CO            |
| Colorado Parks and Wildlife, Montrose Wildlife Service Center   | Montrose, CO         |
| Colorado Parks and Wildlife, Rocky Mountain Regional Office     | Denver, CO           |
| Colorado State Conservation Board Department of Agriculture      | Norwood, CO          |
| Colorado State Historic Preservation Office                     | Denver, CO           |
| Colorado Water Conservation Board                               | Denver, CO           |</p>
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### Agencies and Businesses

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### Water Users and Organizations

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### Recreation/Tourism

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<td>Lower Dolores Boating Advocates</td>
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<td>Rocky Mountain Recreation Initiative</td>
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### Environmental and/or Local Organizations, Partnerships, and Alliances

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<tr>
<td><strong>Over 220 Individuals (Interested Parties and Landowners)</strong></td>
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Appendix D – References


D. References


D. References


Franson Civil Engineers Team. 2008. Summary Report for Paradox Valley Salinity Control Unit, Franson Civil Engineers Team, Malcolm Pirnie, MCC. June 2008.


D. References


References


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