ENVIRONMENTAL BASELINE SURVEY (EBS) CHECKLIST

For use of this form, see ATP 3-34.5/MCRP 4-11B; the proponent agency is TRADOC.

Note: Do not leave any blanks empty. If they do not apply to the current site, enter not applicable (NA) or nothing significant to report (NSTR) to show the section has been investigated. The section numbers in the checklist correspond to the section numbers in the report format.
**Items that are completed in the Environmental Baseline Study Report. These items are shown in the EBS Checklist to ensure that item numbers are matched between the checklist and the report.*

Click this button to add a continuation page if more space is needed for any item.

1. ADMINISTRATIVE DATA

a. LOCATION NAME	*(Official name and legal address of the location being assessed. Name of country, city, township, or area of operation for the site location.)* Camp Williams, Utah Data Center and Department of Transportation Parcels Parcel Exchange, Saratoga Springs, Utah, United States.		
b. LOCATION ALIASES	*(Other names the base is currently or was previously known as.)*		
c. START DATE AND TIME	6/6/2022 11:00	d. END DATE	6/12/2022 17:00
e. ORGANIZATION CONDUCTING SURVEY	*(Name of the unit or activity conducting the assessment.)* U.S. Army Corps of Engineers		
f. SURVEYOR'S NAME, RANK, GRADE, AND TITLE	John Knirr, GS-12, Chemist		
g. SURVEYOR'S TELEPHONE	618-340-5318		
h. SURVEYOR'S E-MAIL	john.t.knirr@usace.army.mil		

i. GEOGRAPHIC LOCATION

Note: If this information is classified, enter it in Section 14 of this checklist. The 8-digit military grid coordinates are mandatory for the site using the center of the camp for reference. Coordinates may also be taken from the outside corners of the site to provide site boundaries. A global positioning system may be used in addition to the grid coordinates. The 8-digit military grid coordinates will always include the 3-character zone designator and the 2-character grid square identifier.

Coordinate 1	(40.427721, -111.927006)	Coordinate 2	(40.427697, -111.930799)
Coordinate 3	(40.424052, -111.931652)	Coordinate 4	(40.424080, -111.926740)
NOTES	*(Enter notes associated with the geographic location; for example, the datum associated with the location, map type, map number, global positioning system used, and so forth.)* Coordinate 5 (40.424086, -111.925966); Coordinate 6 (40.420408, -111.932502); Coordinate 7 (40.420443, -111.925983); Coordinate 8 (40.416734, -111.934963); Coordinate 9 (40.416681, -111.944949); Coordinate 10 (40.419223, -111.944941); Coordinate 11 (40.419231, -111.942911); Coordinate 12 (40.420350, -111.942755); Coordinate 13 (40.420465, -111.924974); Coordinate 14 (40.425831, -111.926672)		

2. EXECUTIVE SUMMARY *

(Completed after information gathered is analyzed and recommendations developed. This is a synopsis of significant findings, conclusions, and recommendations based on the data analysis with the ultimate recommendation being to use or not use the site.)

3. INTRODUCTION

a. LIMITATIONS OF ASSESSMENT

(Enter the physical obstructions, limiting conditions (such as weather), mission restrictions, and the lack of equipment and supplies encountered during the assessment.)

GPS was not used during assessment.

b. GENERAL DATA GAPS

(Enter data that was either not obtainable at the time of the survey or that will be received in the future; for example, awaiting analytical data, personnel not available to be interviewed, and locations of key facilities may be unknown or may move before occupation.)

N/A

4. SITE CHARACTERISTICS

(Attach site maps and photographs to the survey. Take at least one photograph per section or area of concern. Photographs can be used to document conditions before and after occupation. Create a photograph log that documents the date, time, location and a brief description of each photograph.)

a. UNITS AND DETACHMENTS, TEAMS, AND ELEMENTS PRESENT

Note: If this information is classified, enter it in Section 14 of this checklist. Include as much detail as possible and include all Services.

N/A		

b. CAMP FIXED POPULATION **Note:** If this information is classified, enter it in Section 14 of this checklist. Enter the population of the location, if known. Separate by military and civilian categories.	N/A
c. ROTATION SCHEDULE **Note:** If this information is classified, enter it in Section 14 of this checklist.	*(What is the unit rotation schedule [months, years, and so forth]).* N/A
d. NUMBER OF UNITED STATES TROOPS IF NOT A UNITED STATES CAMP **Note:** If this information is classified, enter it in Section 14 of this checklist.	N/A

e. PHYSICAL SETTING

(Provide a description of the general geography, topography, geology, hydrology, vegetation, raw materials, natural resources, and urban and rural settings. Make note of any obvious damage caused by natural and manmade events such as earthquakes, flooding, tornadoes, hurricanes, tsunami, or mining.)

The subject property is located in Lehi, Utah. Surface topography of the subject property slopes gently to the east. The elevation is approximately 5,180 feet above mean sea level at the west end of the property and 4,500 feet above mean sea level at the east end of the property by the Jordan River.
Groundwater in the Utah Lake Valley occurs in Tertiary and Quatemary basin fill sediments that consist primarily of unconsolidated lacustrine, alluvial fa and fluvial deposits. Coarse-grained sediments (sands, gravels, cobbles) are typically found along the margins of the valley and along river channels. Fine grained, well-sorted sands, silts and clays are found in the center of the valley.

There are two primary aquifer systems in the Utah Lake Valley: 1) the principal aquifer that consists of three hydraulically connected deep confined aquifers and a deep unconfined (water table) aquifer located beneath the valley margins, and 2) a shallow unconfined water table aquifer system. The principal aquifer typically occurs at depths greater than 75 feet below ground surface (bgs) in the valley center, with a maximum aquifer thickness in excess of 1,000 feet. The deep water table aquifer is present at depths below 150 feet bgs on the margins of the valley where it is the first groundwater encountered. The shallow water table aquifer typically occurs between five and twenty feet bgs.

f. CLIMATE AND WEATHER

(Provide information regarding the climate and weather in the area; for example, temperature range, predominate wind direction, or normal rainfall. Identify if the area is prone to seasonal or periodic events such as hurricanes, tornadoes, tsunamis, or monsoons. Attach five recent previous years of meteorological data (if possible, in an electronic format), the source of the data, and a point of contact for the source.)

Attached is the National Oceanic & Atmospheric Administration Global Summary of the Year 2016-2021. See appendix II. Average annual temperature is approximately 56 degrees Fahrenheit. The maximum temperature is observed in July-August at approximately 105 Fahrenheit. The average total liquid content was 15 inches.

g. SOIL

(Note the types, permeability, drainage ditches, low lying areas [standing water], unusual or out-of-place mounds, disturbed areas, discolored soil, areas unusually devoid of vegetation, and so forth. Is the area prone to sink holes? Provide 8-digit military grid coordinates of the areas identified. A global positioning system may be used in addition to the grid coordinates.)

The Provo Reservoir Canal was observed running North to South on parcels 58-004-0069 and 58-004-0045. Water was murky but flowing. See appendix III.

A berm was noted along the canal from maintenance activities. See appendix III.

h. GROUNDWATER

(Groundwater is any water source present beneath the surface of the ground. What is the depth of the groundwater and in what general direction does it flow?)

Groundwater flow in the water table aquifer is generally toward the discharge areas of Utah Lake, the Provo River, and other surface water canals. Groundwater flow in the deep confined aquifers is towards the valley center from the mountains. The direction of groundwater flow at the subject property is most likely to the west, toward the Jordan River. Based on the proximity of the river the depth to groundwater is likely less than 20 feet bgs.

i. SURFACE WATER

(What surface water is present on the site; lakes, ponds, rivers, or streams? What is the direction of flow for surface water and drainage? Indicate the direction of surface drainage on graphics or a site map. Note any standing [nonflowing or sluggish] water.)

The Provo Reservoir Canal was observed with running water from North to South on parcels 58-004-0069 and 58-004-0045.

j. WETLANDS, FLOOD ZONES, COASTAL ZONES

(Is the site located in or near a wetland, flood zone, or coastal zone; for example, swamp, marsh, bog, or areas prone to flooding? Include the location of the wetlands and flood zones on graphics or site maps as appropriate. Note any areas that are flooded, show evidence of past flooding or flash flooding, and any potential wadis, washes, or dry creek beds.)

The Provo Reservoir Canal is the only surface water feature adjacent to or on parcels 58-004-0069 and 58-004-0045. There is a stormwater drainage ditch on the north side of parcel 58-021-0418 that captures and directs flow from the Utah Data Center property. There is a detention basin south of parcel 58-021-0418 that appears to capture stormwater coming off Highway 145 (Mountain View Corridor). The detention basin is not on parcel 58-021-0418. There are no other surface water features. See appendix III.

5. DETAILED SITE AND ADJACENT PROPERTY DESCRIPTION

(Make a detailed sketch or map overlay of the site, noting the areas of significance including the date, the surveyor's name and unit, a north arrow, scale, and legend. Take photographs and include grid coordinates and a description of both the area and reason for taking the photograph.)

Note: Everything examined in this section for the site must also be examined for all adjacent property and documented in Section 7 below.

a. DESCRIPTION OF STRUCTURES

(Describe the structures and their use: housing, maintenance, or office space. Include heating and ventilation systems and potential for Radon. Note the condition of the materials that may contain asbestos, such as roof shingles, floor tiles, or pipe insulation. These may release hazardous fibers if damaged. Look for signs of chipping or peeling lead-based paint. Look for electrical hazards and structural damage. Determine current and prior usage of structures. Document water and sewer capability. Look for evidence of previous spills, hazardous materials, or waste storage. Note any chemical-type or strange odors. Look for evidence of pest infestation.)

☐ Tents *(soft-sided structure)* ☐ Semipermanent *(hard buildings without permanent below surface foundations)*

☐ Permanent *(hard buildings with permanent below surface foundations)*

No structures were present on parcels 58-004-0069, 58-004-0045, 58-005-0086, 58004-0070, 58-021-0418, and 58-021-0361. See appendix I.

NOTES

b. DESCRIPTION OF ROADS AND HARDSTAND

(Describe the road conditions: paved, gravel, or dirt. Are there problems with dust generated from vehicle traffic? Is there a defined parking area? What kind of parking area is it: paved, gravel, or dirt? Attach a map, sketch, or photographs.)

Parcels 58-004-0069 & 58-004-0045 had a single dirt road that was restricted from traffic and was only used for canal maintenance.

Redwood Road/SR-68 runs through parcels 58-005-0086 and 58-004-0070.

Parcel 58-021-0418 had dirt and gravel roads. Access was limited only for construction and agricultural purposes. See appendix I & III.

c. DESCRIPTION OF POWER GENERATION

(Describe how power is supplied to the camp: individual and/or bulk generators or grid power. Include potential electrical hazards and sources of polychlorinated biphenyls). Note transformers, substations, and power lines present. Document leaking transformers, 8-digit military grid coordinates,and take photographs.)

☐ Tactical Generators ☐ Commercial Generators ☒ Municipal and Local Grid

NOTES: Underground fiber optic cables and above ground power lines were present on parcel 58-021-0418.

d. CONTRACTOR SERVICES

(What services are contractors performing at the site? Include contractors, subcontractors, or host nation contracts with the point of contact, company information, and the initiating agency.)

☐ Food ☐ Vector Control ☐ Laundry ☐ Hazardous Waste ☐ Power ☐ Medical Waste ☐ Solid Waste
☐ Hazardous Materials Spill Response and Remediation ☐ Waste ☐ Water Waste ☐ Ranges ☐ Firefighting and Suppression

NOTES: N/A

e. HAZARDOUS MATERIALS

(1) STORAGE CONTAINERS

(Describe the type, number, contents, volume, and coordinates of all storage containers. Is there secondary containment? What is done with water that accumulates in the secondary containment? Note the condition of the containers. Determine if they are currently leaking or have leaked in the past. Look for soil discoloration, stains, rust, and any containment of spill residue. Are materials stored inside or outside? Take photographs.)

INDIVIDUAL STORAGE CONTAINERS

(a) Location Description *(Where is it? Inside or under cover?)*	(b) Container Type *(Plastic, metal, single or double walled.)*	(c) Size *(Labeled volume or dimensions.)*	(d) Age	(e) Above or Below Ground?	(f) Contents *(What has been stored, what is currently being stored, and what will be stored in the future?)*
Discarded in open field adjacent to parcel 58-021-0418	Plastic	4 gallons	unknown	Above	15W-40 motor oil
NOTES	*(Condition of container? Labeled with contents?)* crushed; 4 x 1 gallon 15w-40 motor oil bottles were discarded in and open field south of parcel 58-021-0418; likely the result of illegal dumping. The bottles were likely discarded from the access road to the detention basin. No signs of chemical release or soil staining. See appendix III.				
NOTES					
NOTES					
NOTES					

(g) General Notes

(Are shelf-life requirements being met? List any occurrences of spills. Are safety data sheets available? Are containers properly labeled?)
N/A

(2) PETROLEUM DISTRIBUTION POINTS (PETROLEUMS, OILS, AND LUBRICANTS)
(Are there any existing or former fuel points? Take photographs.)

INDIVIDUAL DISTRIBUTION POINTS

(a) Location Description *(Where is it?)*	(b) Container *(Type, single- or double-walled, size in volume or dimension, age or installer, above or below ground, and number of containers. If more than one, describe all.)*	(c) Fuel Type	(d) Contractor Operated
N/A		☐ Gas ☐ Diesel ☐ Jet Propulsion	☐ YES ☐ NO
NOTES	*(Include information related to the specific distribution point. For example, availability of spill response and prevention equipment, personal protective equipment, posted spill plan and procedures, use of drip pans, alarm systems, and protective measures. Annotate signs of obvious ground contamination.)*		
N/A		☐ Gas ☐ Diesel ☐ Jet Propulsion	☐ YES ☐ NO
NOTES			

(e) General Notes

(Add notes related to petroleum, oils, and lubricants distribution in general.)
N/A

(3) PAST RELEASES

(Annotate any information concerning past releases of petroleum, oils, and lubricants products. Describe the details of those past spills if known: location (8-digit military grid coordinates, date, type of spill, amount spilled or size of the resulting stain, and any remedial actions taken. If unknown, state "unknown." Take photographs.)
N/A

(4) POTENTIAL RELEASES

(Discuss areas where the potential for releases to occur is likely. This may include refueling, storage facilities, pipelines, fuel transfer points, or other fuel handling operations.)

N/A

(5) HAZARDOUS AND UNIDENTIFIED SUBSTANCES

(Hazardous and unidentified substances are anything other than petroleum, oils, and lubricants. This may also include past use industries that have contaminated the area prior to United States occupation. Identify the hazardous substance and location.)

The herbicides 2-4-D, Banville, and Roundup were used on parcel 58-021-0418. However, no known spills or deviations from intended manufacturer use have been identified.

(6) HAZARDOUS MATERIAL STORAGE

(Describe storage sites and controls. For example, engineering, administrative, and personal protective equipment. Take photographs.)

INDIVIDUAL HAZARDOUS MATERIAL STORAGE SITES

(a) Location Description *(Where is it? Inside or under cover?)*	(b) Material Type *(What is stored, for example corrosives, batteries, ammunition, asbestos?)*	(c) Material Amount *(How much is currently stored? What is the most that will be stored?)*	(d) Date Noted
N/A	N/A	N/A	N/A

NOTES	*(Add notes related to the specific hazardous material storage site.)* N/A

NOTES	N/A

(e) General Notes

(Add notes related to hazardous material storage in general.)

N/A

(7) SPILLS

(a) What	(b) Where	(c) When	(d) Quantity
NSTR	NSTR	NSTR	NSTR

NOTES	*(What caused the spill? Who responded to it? Was a spill plan on site? Was it followed? Is spill response equipment on site? Are there established evacuation routes? How was it cleaned up? How was the waste material handled? Who was notified?)* N/A

(a) What	(b) Where	(c) When	(d) Quantity
N/A	N/A	N/A	N/A

NOTES	N/A

(e) General Notes

N/A

f. WASTE MANAGEMENT

(1) SOLID AND HAZARDOUS WASTE

(General description of solid and hazardous waste disposal practices. Describe whether burn pits, composting, landfills, or incinerators are used. Note any signs of dumping and determine what might have been dumped. Take photographs.)

INDIVIDUAL SOLID AND HAZARDOUS WASTE DESCRIPTIONS

(a) Type of Waste *(What is the waste? For example, is it residential, industrial, agricultural, or explosive ordnance?)*	(b) Source of Waste *(For example, is it dining facility, housing, office, or construction debris?)*	(c) Disposal Method *(For example, open dumping, incineration, open burning, landfill, or composting?)*	(d) Contractor Operated
N/A	N/A	N/A	☐ Defense Reutilization and Marketing Office ☐ United States ☐ Local

NOTES	*(Add notes related to specific types of waste. Include contractor information, host nation and local company point of contact and telephone number, the name of the individual who picks it up, the method of pickup, the frequency of pickups, where it goes, the location with grid coordinates, and how long it remains on site. How is it stored? Take photographs.)* N/A

N/A	N/A	N/A	☐ Defense Reutilization and Marketing Office ☐ United States ☐ Local

NOTES	N/A

N/A	N/A	N/A	☐ Defense Reutilization and Marketing Office ☐ United States ☐ Local

NOTES	N/A

N/A	N/A	N/A	☐ Defense Reutilization and Marketing Office ☐ United States ☐ Local

NOTES	N/A

(e) General Notes

(Include contractor and subcontractor information, point of contact, telephone number, storage locations, quantities, and frequency of removal. Who is responsible for removing waste? Methods used to remove, such as dumpsters or trucks. If disposal is by burn pit, are wastes segregated? What is the frequency of burning in the pit? How far away is the nearest occupied area? Who lives and works in the area and is there any record of complaints or concerns associated with the burn pits? Take photographs.)

N/A

(2) NONHAZARDOUS WASTE	
(i) REUSE, RECYCLING, AND COMPACTION FACILITIES	
(a) Location	*(Where is it located and the distance from living areas. Provide grid coordinates.)* N/A
(b) Materials and Volume Managed	*(Types and quantity of materials reused and recycled. Document procedures for collection, management, and disposition.)* N/A
(c) Equipment Utilized	*(List all equipment and containers used.)* N/A
(d) Operator	*(Name and contact information.)* N/A
(e) General Notes	*(Make note of any problems or issues that exist with the current process or procedures.)* N/A
(ii) LANDFILLS	
(a) Location	*(Where in the camp is it located? Note the distance from living areas and nearest airfield. Provide 8-digit military grid coordinates.)* N/A
(b) Material Disposed	*(Types of material disposed.)* N/A
(c) Disposal Volume/Day	*(In weight or volume, obtain from the landfill coordinator.)* N/A
(d) Operator	*(Name and contact information.)* N/A
(e) Daily Cover	*(Is daily cover applied?)* N/A
(f) Description	*(General size, how long in use, materials excluded, such as medical waste, batteries, tires, or petroleum, oils, and lubricants. Are there monitoring wells for gas or leachate? Describe the landfill construction.)* N/A
(iii) INCINERATORS AND BURN PITS	
(a) Location	*(Where in the camp is it located and the distance from living areas. Provide grid coordinates and prevailing wind direction of the area.)* ☐ Incinerator N/A ☐ Burn pit
(b) Material Disposed	*(Types of material disposed.)* N/A
(c) Disposal Rate Per Day	*(Obtain from the incinerator and burn pit operator the weight or volume. For incinerators, note the unit's capacity from the specification plate on the unit.)* N/A
(d) Operator	*(Name and contact information.)* N/A
(e) Manufacturer	*(Obtain from the specification plate on the unit. Describe the unit.)* N/A
(f) Hours of Operation Per Day	*(Obtain from the operator.)* N/A
(g) Frequency of Burning	*(Days per week, hours per day, time of day.)* N/A
(h) Supplemental Fuel	*(For example, diesel, propane, or waste oil.)* N/A
(i) General Notes	*(Document the type of incinerator. For example, hazardous or nonhazardous waste. Are there scrubbers in place? What are the procedures for ash disposal ? Are the incinerators dual chambered?)* N/A

(iv) COMPOSTING AND LAND FARMING	
(a) Location	*(Where is it located and the distance from living areas. Provide grid coordinates.)* N/A
(b) Materials Disposed	*(Types of material disposed.)* N/A
(c) Disposal Rate/Day	*(Obtain the weight or volume from the composting operator.)* N/A
(d) Operator	*(Name and contact information.)* N/A
(e) General Notes	*(Note the date the operation began. Document the turning schedule. Is the turn conducted by hand or by mechanical means? How is the composted material used? If land farming, what microbes are being used?)* N/A

g. MEDICAL WASTE

(1) INDIVIDUAL MEDICAL WASTE DESCRIPTION

(a) Type of Waste *(What is the waste? Red bag [gloves, dressings, tubing, cultures, and so forth], pathological [body parts], or Sharps?)*	(b) Source of Waste *(Clinic, humanitarian assistance, and so forth?)*	(c) Disposal Method *(Incineration, open burning, landfill, autoclave, and so forth?)*	(d) Contractor Operated
N/A	N/A	N/A	☐ Defense Reutilization and Marketing Office ☐ United States ☐ Local

NOTES	*(Add notes related to the specific types of waste. Include contractor and subcontractor information, point of contact, telephone number, and how the medical waste is managed, collected, stored, and disposed. Is there a medical waste incinerator? Has the waste been buried and marked for future removal? Provide the location of disposal facilities and grid coordinates. Refer to the information collected above for landfills and ensure that information is collected here.)* N/A

N/A	N/A	N/A	☐ Defense Reutilization and Marketing Office ☐ United States ☐ Local

NOTES	N/A

(e) General Notes

(Add notes related to medical waste in general.)
N/A

(2) MEDICAL WASTE INCINERATORS	
(a) Identification	N/A
(b) Location	*(Where in the camp is it located and the distance from living areas. Provide grid coordinates.)* N/A
(c) Material Disposed	*(Types of material disposed.)* N/A
(d) Disposal Rate Per Day	*(In weight or volume, obtain from the incinerator or burn pit operator. For incinerators, note unit's capacity from specification plate on unit.)* N/A
(e) Operator	*(Name and contact information.)* N/A
(f) Manufacturer	*(Obtain from the specification plate on the unit.)* N/A
(g) Hours of Operation Per Day	*(Obtain from the operator.)* N/A
(h) Supplemental Fuel	*(Diesel, propane, waste oil, and so forth.)* N/A
(i) General Notes	*(Add notes related to medical waste incineration in general. Document the type of incinerator such as hazardous or nonhazardous waste. Are scrubbers in place? How is ash disposed of? Are there dual chambers?)* N/A

h. WASTEWATER *(What are the sources and types? How is it collected, treated, discharged, or disposed?)*	
INDIVIDUAL WASTEWATER DESCRIPTIONS	
(1) Source and Type of Wastewater	*(Black water such as latrines, urinals, kitchen, or other and explain; grey water: hand washing, laundry, brine from reverse osmosis concentration, or other and explain; industrial wastewater such as wash racks, oil water separators, or other and explain. The volume of wastewater.)* N/A
(2) Collection Method	*(Black water such as burn-out latrines and portable or chemical toilets; tank trailers and holding tanks or ponds (capacity); and pipes and pump stations. Grey water such as water not collected, tank trailers, and holding ponds (capacity); pipes; and pump stations. Include collection system design or sketch.)* N/A
(3) Disposal Method	*(How is it being disposed of? Discharge methods: subsurface such as septic drain field, dry wells, seepage pits; land applied such as ground discharge, infiltration, evaporation ponds, beds, fields, spray irrigation; stream discharge, trucked off-site to known or unknown location and explain; piped off-site to known or unknown location and explain.)* N/A
(4) Contractor Operated	☐ Defense Reutilization and Marketing Office ☐ United States ☐ Local
(5) General Notes	*(Enter general notes regarding wastewater activities.)* N/A

(6) WASTEWATER TREATMENT METHODS

(Is wastewater treated or untreated, on-site or off-site, upwind or downwind-of troop areas? Methods: burn-out latrines; septic systems such as solids settling tank or drain field; package such as portable or modular; wastewater treatment facility; constructed wastewater treatment facility. If lagoon or pond, list the number of ponds, number of cells per pond, surface area, depth, freeboard [above water level], aerated, discharge, provide sketch, inlet, and outlets. If a package wastewater treatment facility, list the type such as activated sludge, or other and explain. If other constructed treatment plant, list the type such as trickling filter, activated sludge, or other. If a constructed wastewater treatment facility describe the unit process, flow equalization [none, storage tank, pond], preliminary treatment [none, screening, grit removal, other], tertiary [for example, after secondary] treatment [none, filtration, membrane, other], disinfection [such as none, liquid chlorine, sodium hypochlorite – liquid bleach, calcium hypochlorite – dry or liquid, ultraviolet or other]. Describe the treatment design to include gallons per day, obtain the designs, plans, and reports, and add a sketch. If more than one exists, use separate blocks to identify treatment methods.)

N/A

General Notes

(Gather available wastewater treatment monitoring data, such as flow and physical or chemical data. Include contractor or subcontractor, point of contact, telephone number, and method of collection. Is it dumped on-site or removed from the property? Include the location of the dump site. Is it characterized as grey water and removed by sanitation personnel in honey buckets or grey water pumpers? Is it taken out the gate, dumped, and found running back on the property? If collecting on-site, is it treated and used as a dust abatement source or other? Military operation or contractor? List influent and effluent data - biochemical oxygen demand, chemical oxygen demand, total suspended solids, fecal coliform, total residual chlorine, pH, or other. Include the unit of measure; for example, milligrams per liter and obtain data and monitoring frequency, if available. Also note if data is not being collected or not available.)

N/A

(7) HOW IS STORM WATER MANAGED?

(Is the site grading adequate or inadequate? Describe any open ditches, storm ditches and underground piping, storm water collection in detention or retention ponds or tanks. Is the storm water collection system collocated with sanitary water and/or the main water lines? Obtain storm water system designs if available, Is it treated or untreated? If untreated, is it characterized as black or grey water? Is it reused? If it is reused, describe how and for what purpose such as dust control, vehicle washing, crop irrigation, construction, toilet flushing, laundry, showers, or other.)

☐ Managed ☒ Not managed

Stormwater is managed for water coming off the UDC property, north of parcel 58-021-0418. South or parcel 58-021-0418, stormwater is captured in a detention basin. Otherwise, stormwater is not actively managed on any parcel, although the general grade for all parcels allows for runoff with minimal infiltration. There are no areas where significant ponding is expected. For parcels 58-004-0069 & 58-004-0045, stormwater likely is collected in the agricultural drainage ditch on the east side of each parcel.

(8) IS WASTEWATER OR STORM WATER REUSED FOR BENEFICIAL PURPOSES? *(If Yes, explain.)*

No.

i. HISTORICAL AND CULTURAL RESOURCES

(Take photographs and note the location using grid coordinates or global positioning system. Note the areas of significance on the site sketch or map overlay. Describe the general surface appearance and disturbances such as irregular holes and trenches from vandalism and looting or regular emplacements from recent military or other use.)

Note: If it is determined that the historical or cultural resource must be protected to prevent damage or looting by pot-hunters or black market antiquities dealers, it is likely that documentation of the site should be annotated in Section 14 as classified information.

(1) HISTORICAL RESOURCES

(Document historical buildings, monuments and artifacts on display in buildings or museums. Look for clues in the landscape regarding undocumented artifacts, ancient features, ruins, rock art, and ancient writing or pictographs. Note the presence of artifacts in the ground or undisturbed as part of an archeological site, such as ancient pottery, stone tools or jewelry, decorative art or beads, carved bone, or wood. Note earthen mounds that are not part of the natural topography, caves, or rock shelters often containing archeological remains. Note ancient storage and trash pits. Note remnants of walls, floors, and collapsed ceilings which will typically be constructed of mud-brick or stone as wood disintegrates in a few years in most environments. Note rock surfaces that are decorated with paint, pecked renderings, or inscriptions.)

After review of the results of the records and literature review and an attempt to relocate the sites, the USACE reached a determination of no adverse effects to historic properties.

(2) CULTURAL RESOURCES

(Anything that is significant to the local population is a cultural resource. Document individual burials, burial grounds, and cemeteries which may be marked or unmarked. Document areas of religious significance. List and describe all known parks, forests and/or animal preserves, and recreational areas in or around the site. Interviews with the local nationals are imperative to this documentation.)

30 surveys for cultural resources and 13 site records were identified using the State of Utah's cultural resources repository, Sego. Seven sites are within the area of potential effects. Four sites were identified as having potential eligibility for the National Register of Historic Places (NRHP). Two sites are multicomponent sites that consist of pre-contact and post-contact components. These sites could not be located during an on-site reconnaissance. Two additional sites consist of segments of the Provo Reservoir Canal. However, the canal system has been recommended eligible but is not listed on the NRHP or any local historical registries.

(3) ASSESS IMPACT LEVEL

Level 1: No impact. There are no resources present or the proposed mission would avoid them if present.
Level 2: Less than significant impact. Resources are present but proposed mission would only have minor effects without the need for mitigating actions.
Level 3: Less than significant impact with mitigation incorporation. Resources are present but with the implementation of mitigating actions effects can be minimized to an acceptable level, such as power lines to be installed can be routed around sensitive resource concentrations.
Level 4: Potentially significant impact. The proposed action would likely cause a substantial adverse change in the significance of a historical or archeological resource, disturb a known religious, traditional, or cultural resource or disturb any human remains, including those interred outside of formal cemeteries.

(a) Cultural Resource *(Describe resource.)*	(b) Assess Impact Level *(Enter level and explain.)*
NSTR	Level 1: No impact. There are no resources present or the proposed mission would avoid them if present.

(4) General Notes

(Enter general notes regarding historical and cultural resources. List any host nation or local subject matter expert and point of contact information for cultural properties or resources from academia, museums, government agencies, local citizens, and so forth.)

NSTR

j. ENDANGERED AND THREATENED SPECIES AND HABITATS

(Identify all endangered and threatened species or sensitive habitats that could be in or around the site. This may be done through an internet search. Make note of any significant habits or species sensitivities that could be directly affected by the mission. During the site reconnaissance make note of and document the presence of habitation and species sightings. Document the presence of endangered species in the area that could be affected by the mission or occupation. Identify habitat areas using grid coordinates or global positioning system. Note the areas of significance on the site sketch or map overlay. Document the existence of any environmental controls or restrictions already in place. Make note of manmade damage or disturbance of the area and any signs of previous occupation by military or civilian entities.)

Significant species or habitats were not identified during the subject property assessment.

(1) ASSESS IMPACT LEVEL

Level 1: No impact. There are no endangered and threatened species present or the proposed mission would avoid them if present.
Level 2: Less than significant impact. Resources are present but proposed mission would only have minor effects without the need for mitigating actions.
Level 3: Less than significant impact with mitigation incorporation. Resources are present but with the implementation of mitigating actions effects can be minimized to an acceptable level.
Level 4: Potentially significant impact. The proposed action would likely cause a substantial adverse impact to an endangered and threatened species or their habitat.

(a) Endangered and Threatened Species *(Describe resource.)*	(b) Assess Impact Level *(Enter level and explain.)*
NSTR	Level 1: No impact. There are no endangered and threatened species present or the proposed mission would avoid them if present.

(2) GENERAL NOTES

(Enter general notes regarding endangered species or habitat. List any host nation or local subject matter expert and point of contact information for natural resource management, from academia, government agencies, local citizens, and so forth.)

NSTR

k. LOCAL DISEASES AND HEALTH FACTORS

(1) DISEASE THREATS	*(List diseases prevalent.)* West Nile virus, Zika virus, Lyme disease
(2) CAUSES AND VECTORS OF DISEASE	*(Enter known causes and/or vectors such as insects, animals, or organisms that carry the diseases known to be present in the area of operation.)* West Nile and Zika virus - mosquito Lyme disease - tick
(3) VECTORS PRESENT	*(Is surveillance for the vectors of these diseases being conducted? If yes, describe what is being done and what has been found. Are conditions favorable for vectors or pests? If yes, describe. Are Soldiers being bitten by vectors or pests? If yes, list and describe what is being done about it. Do Soldiers report seeing other pests? If yes, list. Are disease vectors present? If yes, complete specifics below if possible. Are conditions favorable for breeding vectors and pests? Is standing water present? Describe location and condition. Are habitats of disease vectors and carriers present? Specify and explain. Are potential vectors and pests such as filth flies, rodents, stray dogs or cats, snakes, or scorpions present? Specify and explain. Are seasonality or weather conditions favorable for breeding pests? Are there locations where wastes have been disposed of incorrectly and which may attract pests? Is the deployment site drainage adequate? Have personnel seen other pests, such as rodents, spiders, or snakes?)* Mosquitoes and ticks were not observed during the site inspection, but are expected to be present during warm months.
(4) ENVIRONMENTAL HEALTH ASSESSMENT	*(Are living and work facilities pest proof? If no, describe. Is waste being handled in environmentally sound manner that protects human health and does not provide breeding for pests? If no, describe. Are uniforms properly worn? Are individuals practicing good personal and unit area sanitation? Is education on avoidance of pests and pest habitats provided? Is personal information distributed to Soldiers, such as tick and rodent cards and staying healthy guides?)* N/A

(5) FIELD SANITATION ASSESSMENT	*(Is human waste disposed of in an environmentally sound manner and in a manner that protects human health? Are laundry services provided or planned? Are adequate food storage facilities provided? Is liquid kitchen waste disposed of in an environmentally sound manner that protects human health?)* N/A
(6) COUNTERMEASURES AND PEST MANAGEMENT CONTROL	*(Are personal protective countermeasures appropriate to the threats? Describe. Have action thresholds been established to guide initiation of pest control measures? Is there a control program for disease vectors? Are integrated pest management procedures being used? Does the integrated pest management include reduction to food sources and breeding habitats? Are pest management operations being conducted? If yes, describe. Include who [contractor, medical personnel] and what [vector, pest]. Are mechanical or chemical controls being used? If so, list. Are they properly handled and stored? How are pests [such as carcasses] being disposed?)* N/A
(7) PESTICIDE USE	*(Attach copies of DD Form 1532-1 (or equivalent). What chemical is being used, how much is in inventory, and how much is being applied at what intervals? Are records being kept? When is application conducted? Are safety data sheets and appropriate personal protective equipment available to personnel applying chemicals?)* Pesticides used for vector control have not been identified and no use was reported.

l. RADIOLOGICAL HAZARDS

(Radiological sources will only be identified for the environmental baseline survey if the source is a waste material or there is a significant impact to the environment. If radiological sources are suspected, contact chemical, biological, radiological, and nuclear resources for assistance.)
N/A

m. NOISE

(1) NOISE SOURCES PRESENT *(Are noise sources present? If so, describe sources. Take photographs.)*

☐ PRESENT ☒ ABSENT

(2) INDIVIDUAL NOISE SOURCES

(a) Location Description *(Where is it?)*	(b) Source *(Generator, industrial operations, air field, and so forth.)*	(c) Noise Level *(Ambient noise level obtained from a noise meter measured in decibels.)*
N/A	N/A	N/A
NOTES *(Add notes related to the specific noise source.)* N/A		
N/A	N/A	N/A
NOTES N/A		
N/A	N/A	N/A
NOTES N/A		

(3) NOISE SENSITIVE AREAS OR ACTIVITIES AND NOISE CONTROLS
(Are there noise sensitive activities present that may be negatively impacted by military operational noise?)

(a) Location Description *(Where is it?)*	(b) Noise Sensitive Area or Activity *(Describe the noise-sensitive areas or activities such as hospitals, nursing homes, tourism areas or sites, animal habitat, agricultural, or animal husbandry operations.)*	(c) Noise Control *(Are noise controls present? If noise controls are present, describe the type such as avoidance, engineering controls such as barriers or keeping a specified distance from the noise sensitive area or activity. If noise controls are not present, describe recommended or potential noise solutions.)*
N/A	N/A	☐ Present ☐ Absent N/A
NOTES: N/A		
N/A	N/A	☐ Present ☐ Absent
NOTES: N/A		

(4) GENERAL NOTES

(Add notes related to noises in general.)
N/A

n. AIR QUALITY

(1) AMBIENT (OUTSIDE) AIR QUALITY *(Describe sources that impact ambient air and/or introduce potential hazards. Provide locations. Survey landscape and note presence of storage tanks. Identify contents. Note all combustion sources that create exhaust, fumes, or smoke; for example, flares, incinerators, generators, burn pits or boxes, welding operations, idling vehicles, or aircraft. Note sources of dust, such as concrete plants, mining operations, tank or convoy trails, roads or highways, helipads or runways, and agricultural fields or operations. Describe sources that produce odors such as a landfill, military painting and/or solvent use, or refueling points. Note any terrain and elevation differences between the camp and air sources. Is the source affected by the season or weather? Is it weather dependent?)*

N/A

(2) INDOOR AIR QUALITY *(Do occupants complain about dust, odors, stale air, or have symptoms of eye, throat, and nose irritation? Are generators placed near building openings? Is the presence of visible mold noted? Take photographs. Do personnel occupy newly built structures? Does the ventilation system allow fresh, filtered, and conditioned air into the building or shelter? Take photographs.)*
Note: Carbon monoxide and other combustion by-products should be controlled to as low as reasonably achievable.

N/A

o. WATER

(1) WATER TREATMENT

(Describe the water treatment systems currently in place and their effectiveness. Contractor or military operated? Is it a host nation water source, taps, faucets in buildings? Is the source water being tested for surface infiltration of pollutants?)
N/A

(2) MUNICIPAL WATER

(a) Identification *(Usually obtained from engineers.)*	(b) Municipality *(Name of municipality supplying water.)*	(c) Treatment Methods *(Method used to treat water.)*	(d) Distribution Point Description *(Describe the distribution points; for example, water trailer, water blivet, and preexisting plumbing.)*
N/A	N/A	N/A	N/A
NOTES	*(How is the water from this source used?)* N/A		
N/A	N/A	N/A	N/A
NOTES	N/A		

(3) SUBSURFACE WATER

(a) Identification	(b) Access to Subsurface Water *(Describe access to subsurface water such as wells. Note any evidence of ancient infrastructure used to access groundwater [for example, karez, foggaras, or qanat]).*	(c) Pump Specifications *(From specification plate on pump or from the engineers.)*	(d) Potential Sources of Contamination *(Evaluation of potential source of contamination, such as storm water runoff or vector access. Provide examples.)*
N/A	N/A	N/A	N/A
NOTES	*(How is water from this source treated and used?)* N/A		
N/A	N/A	N/A	N/A
NOTES	N/A		

(4) SURFACE WATER

(a) Identification	(b) River or Lake Name	(c) Treatment Method *(Is the surface water treated, such as filtration or chlorination?)*	(d) Potential Sources of Contamination *(Evaluation of potential source of contamination, such as agricultural wastewater discharge, dead animals, or industrial operations.)*
N/A	N/A	N/A	N/A
NOTES	*(How is water from this source used?)* N/A		
N/A	N/A	N/A	N/A
NOTES	N/A		

(5) REVERSE OSMOSIS WATER PURIFICATION UNIT, ULTRAVIOLET TACTICAL WATER PURIFICATION SYSTEM, AND LIGHTWEIGHT WATER PURIFIER

(a) Identification *(From the engineers, quartermaster, or operator.)*	(b) Water Source Name	(c) Size *(Daily or hourly production capacity.)*	(d) Operating Unit or Contractor *(Name and contact information of unit or contractor operating the system.)*
N/A	N/A	N/A	N/A
NOTES	N/A		
N/A	N/A	N/A	N/A
NOTES	N/A		

(6) WATER DISTRIBUTION SYSTEM

(Describe the water distribution system. How is water transported around the camp: tactical water distribution system, water trucks, trailers, existing distribution system, or constructed distribution system? Are the sanitary system pipes together with the water distribution pipes? Is there possible cross contamination? Is the water tested for possible infiltration of sanitary water? How is water stored?)

N/A

(7) WATER STORAGE TANKS

(Describe the water storage areas on the property, materials of tanks and containers, amount of storage tanks, and general condition of these tanks.)

(a) Identification	(b) Tank Type *(Metal, fiberglass, fabric, and so forth.)*	(c) Size	(d) Type of Water Stored *(Potable, nonpotable, raw water, disinfected, fresh or brine, grey water, and so forth.)*
N/A	N/A	N/A	N/A

(8) BOTTLED WATER *(Describe the sources of bottled water and whether it is used as the primary source for drinking water and are the brands Veterinary Command approved? Note if bottles are recycled.)*

(a) Identification	(b) Brand *(Dasani®, Ice Mountain®, and so forth.)*	(c) Bottle Size	(d) Notes
N/A	N/A	N/A	N/A

(9) NONPOTABLE WATER

(Complete this section if nonpotable water is used for dust abatement, construction, or other operations.)

p. GENERAL SANITATION

(1) GENERAL FACILITIES *(Describe the type, location, status of facility, and so forth. Take photographs.)*

(a) Type *(Gymnasium, barber shops, laundry, detainee facility, and so forth.)*	(b) Building Number	(c) Notes *(Describe contractor or military operated; point of contact, how long they have been at this location.)*
N/A	N/A	N/A

(d) General Notes

(Add notes related to sanitation in general.)

N/A

(2) DINING FACILITIES *(Describe the location and general condition of the facility, status of facility, and so forth. Take photographs.)*

(a) Building Number	(b) Contractor Operated?	(c) Notes *(Add notes specific to the dining facility; for example, contractor, population served, meals served.)*
N/A		N/A

(d) General Notes

(Add notes related to sanitation in general. Who inspects the dining facility? What is the inspection interval and frequency? Are there any current food vulnerability concerns? Does review of the dining facility inspections reports reveal any continuing concerns or food vulnerabilities?

N/A

q. OTHER ENVIRONMENTAL CONCERNS

(Anything that does not fit in above sections.)

The parcels and adjacent properties were analyzed for the potential of military munitions. Only one location was associated with munitions use and disposal and is located approximately 0.75 miles north/east of the subject property. The site was used from the 1950's through the 1980s to train combat engineers in the construction of floating bridges. Training exercises included the use of smoke grenades, pyrotechnics, flares and small arms blanks. The site was investigated between 2008 and 2010. No munitions and explosives of concern (MECs) were discovered, and the site was closed in 2011. No impacts were discovered at this CERCLIS site and it does not represent a REC.

No other environmental concerns were noted during the site visit or after review of available parcel documentation.

6. SITE USE

a. PROPOSED SITE USAGE

(What is the proposed usage of the site, especially if assessment is being conducted before usage determination or occupation?)

Parcel 58-021-0418 is proposed for use as a buffer zone for the Utah Data Center property, or potentially as space for future UDC buildings.

Parcels 58-004-0045, 58-004-0069, 58-005-0086, and 58-004-0070 are expected to be developed as freeway to alleviate traffic congestion in the developing area south of Salt Lake City.

b. CURRENT AND PAST USES OF PROPERTY

(What was the past usage of the site such agricultural, industrial, or military. For what duration were these uses active?)

Parcel 58-021-0418 was acquired in the 1940's for farming. It was part of an active farm for approximately 74 years. It hasn't been farmed in 2-3 years and it is currently unused.
Parcels 58-004-0069 and 58-004-0045 were used for military bivouacking exercises. Land is currently not in use.
Parcels 58-005-0086 and 58-004-0070 are currently part of Redwood Road/SR-68. SR-68 became a state highway in 1931.

c. ONSITE INDUSTRIAL AREAS

(Are there any existing onsite industrial operations? Give information on scope of activities, size of facilities, who performs the operations, hazards present.)

☐ Vehicle Maintenance ☐ Aircraft Maintenance ☐ Power Generation ☐ Petroleum Distribution ☐ Waste Incineration
☐ Other and Explain

N/A

NOTES	N/A

7. ADJACENT PROPERTY USE

a. CURRENT AND PAST USES OF ADJACENT PROPERTY

(Describe the current and historical use of adjoining properties. Document agricultural activities such as the types of crops grown, pesticide application - insecticides/herbicides - water usage and animal ranching or herding activities. Everything that was investigated for the proposed base camp location must also be investigated and documented for the adjacent properties.)

Parcels 58-004-0069, 58-004-0045, 58-021-0418, 58-005-0086, and 58-004-0070 are currently adjacent to Camp Williams, the Utah Data Center, mobile home/RV storage, light commercial area, agricultural and residential, city water district, and open space. Camp Williams has been an active Utah National Guard training site since 1928. The Utah Data Center was built in 2013 on a former Camp Williams airstrip and heliport.

North of Site	Adjacent Properties to Parcels 58-004-0069, 58-004-0045, 58-005-0086, and 58-004-0070: 2016-Present: Open space, Mobile Home/RV Storage; Adjacent Properties to Parcel 58-021-0418: 1930's-1993: open space/undeveloped space, 1993-2011: Camp Williams Airfield, 2013-Present: Utah Data Center (UDC)
South of Site	Adjacent Properties to Parcels 58-004-0069, 58-004-0045, 58-005-0086, and 58-004-0070: 1940's-2010's: Agricultural, 2020-Present: Light commercial, zoned multi use; Adjacent Properties to Parcel 58-021-0418: 1930's-2018: Open Space, 2018-Present: Mountain View Corridor 145
East of Site	Adjacent Properties to Parcels 58-004-0069, 58-004-0045, 58-005-0086, and 58-004-0070: 1928-Present: Camp Williams, 1940s-Present: Agricultural, 2016-Present: Residential; Adjacent Properties to Parcel 58-021-0418: East - Light commercial, zoned multi use
West of Site	Adjacent Properties to Parcels 58-004-0069, 58-004-0045, 58-005-0086, and 58-004-0070: 1930's-1993: open space, undeveloped space 1993-2011: Camp Williams Airfield, 2013-Present: Utah Data Center; Adjacent Properties to Parcel 58-021-0418: 1930's-Present: open space/undeveloped space, 2017-Present: city water district

b. INDUSTRIAL OPERATIONS IN SURROUNDING AREA

(Describe nearby industrial operations [for example, power plant or factories]. What is approximate distance from camp boundary? What can be observed from camp: smoke, odors, and so forth? Include 8-digit grid coordinates of each facility, name of industry, type of industry, and active or inactive. Provide a description of the facility - if processes are present, material used and stored, operating schedule, and environmental impacts. Take photographs.)

N/A

North of Site	N/A
South of Site	N/A
East of Site	N/A
West of Site	N/A

c. SPECIFIC NEARBY INDUSTRIAL FACILITIES

(1) Location *(8-digit grid coordinates.)*	(2) Name	(3) Type of Industry *(For example, power production, petrochemical, or agricultural.)*	(4) Active?	(5) Description *(Describe facility, processes present, material used and stored there, operating schedule, environmental impacts, and so forth.)*
N/A	N/A	N/A		N/A

8. INFORMATION SOURCES AND SUPPORTING DOCUMENTS
(Document sources of information gathered. Provide summaries of environmental sampling and studies, aerial photographs, topographic maps, previous environmental baseline survey or Occupational and Environmental Health Site Assessment referenced, base camp master plans, and other documents reviewed. Document personnel interviewed by providing their name and contact information for verification, if necessary, as well as the name of the interpreter if one was used.)

a. SOURCES OF INFORMATION *(Who did you talk to or interview? How can they be contacted again? Attach interview notes.)*

PERSONNEL CONTACTED

(1) Name	(2) Contact Information *(Address, telephone number, e-mail, and so forth.)*	(3) Title	(4) Location
Mr. Stephen Holbrook	801-372-0173	Former property owner/farmer	electronic
Mr. Shane Hill	385-985-7526	Habitat/Impact Analysis Biologist	electronic
Mr. Geff Dupaix	801-227-8012	UDOT Sr. Strategic Communications Manager	electronic

b. OTHER SOURCES OF INFORMATION

(Document all source of information received. Provide enough information that the sources may be used by other to verify the information if necessary.)

Phase I ESA - 2021
Phase I ESA - 2014
Limited Site Investigation Report - 2015
Real Estate Documents
Utah National Guard military munitions response program (MMRP) documents - 2011
Utah Division of Wildlife Resources
National Security Agency
Utah Department of Transportation

9. SITE RECONNAISSANCE INFORMATION*
(Completed as part of the analysis of the information gathered during the site reconnaissance.)

10. ENVIRONMENTAL AND HEALTH SAMPLING DATA

(Identify sampling requirements; why, where, and what needs to be sampled. Provide 8-digit grid coordinates, a description and a photograph, if possible, for all areas to be sampled.)

No environmental or health sampling efforts are recommended based on site history and usage.

11. FINDINGS AND CONCLUSIONS*
(Completed after information gathered is analyzed.)

12. JUSTIFICATION AND DISCUSSION*
(Completed after findings and conclusions have been developed.)

13. RECOMMENDATIONS*
(Completed after findings and conclusions have been developed.)

14. CLASSIFIED DATA

(Enter all classified information that is significant to the report. The classification must be added as a header and footer for each page. All classified information will be added in this section as a separate addendum to the report with a reference to its appropriate section number. Classified data must be sent via SECRET Internet Protocol Router Network.)