

SECTION 01500 ENVIRONMENTAL PROTECTION - JBER

1. APPLICABLE LAWS AND DIRECTIVES

- 1.1. The Contractor and all subcontractors, in performance of this contract, shall comply with all federal, State of Alaska (SOA), and local laws, regulations, orders and ordinances concerning environmental quality, environmental pollution abatement and control.
- 1.2. The Contractor shall be responsible for any fine, penalty assessments and/or natural resources damage claims that are brought against JBER for those incidents the Contracting Officer Representative (COR) determines are due to Contractor’s performance or failure to perform during the execution and performance of this contract.
- 1.3. Technical assistance for complex environmental problems will be coordinated with:
 - JBER Environmental Flight, 673 CES/CEIEC (Current Environmental Program Manager List to be Provided to Contractor)
 - JBER Bioenvironmental Engineering, 673 AMDS/SGPB, 384-3985
- 1.4. The Contractor shall accomplish scope of work within the guidance and limitations established by the following federal, SOA, and local regulations and statues; as well as, and USAF instruction and policy based on the most current changes and amendments described below.

1.4.1. Code of Federal Regulations (CFR), Titles 29, 44, and 49

Citation	Description
29 CFR 1910.1200	Hazardous Material Communication (HAZCOM) Standard
32 CFR Part 989	Environmental Impact Analysis Process (EIAP) US Air Force
40 CFR 50	National Primary and Secondary Ambient Air Quality Standards
40 CFR 60	Standards of Performance for New Stationary Sources: Subpart Dc (Small Industrial-Commercial-Institutional Steam Generating Units Subpart Kb (Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After 23 July 1984) Subpart IIII (Stationary Compression Ignition Internal Combustion Engines) Subpart JJJJ (Stationary Spark Ignition Internal Combustion Engines)
40 CFR 61	National Emission Standards for Hazardous Air Pollution

Citation	Description
	Subpart A (General Provisions) Subpart M (National Emission Standard for Asbestos)
40 CFR 63	National Emission Standards for Hazardous Air Pollution for Source Categories Subpart ZZZZ (Stationary Reciprocating Internal Combustion Engines) Subpart CCCCCC (Gasoline Dispensing Facilities) Subpart JJJJJJ (Industrial, Commercial, and Institutional Boilers Area Sources)
40 CFR 64	Compliance Assurance Monitoring
40 CFR 68	Chemical Accident Prevention Provisions (Risk Management Program)
40 CFR 82	Protection of Stratospheric Ozone
40 CFR 112	Oil Pollution Prevention
40 CFR 144	Underground Injection Control Program
40 CFR 122.26	Storm Water Discharges (Applicable to Alaska National Pollutant Discharge Elimination System (NPDES), See section 123.25)
40 CFR 239-299	Guidelines for Disposal of Solid Waste
40 CFR 243	Guidelines for the Storage and Collection of Residential, Commercial, and Institutional Solid Waste
40 CFR 260	Hazardous Waste Management Systems – General
40 CFR 261	Identification and Listing of Hazardous Waste
40 CFR 262	Standards Applicable to Generators of Hazardous Waste
40 CFR 263	Standards Applicable to Transporters of Hazardous Waste
40 CFR 265	Interim Status Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities
40 CFR 266	Standards for the Management of Specific Hazardous Wastes and Specific Types of Hazardous Waste Management Facilities
40 CFR 268	Land Disposal Restrictions
40 CFR 273	Standards For Universal Waste Management
40 CFR 279	Standards for the Management of Used Oil
40 CFR 300	National Oil and Hazardous Substances Pollution Contingency Plan
40 CFR 320-324	General Regulations- Wetlands, Waters of the United States
40 CFR 355	Emergency Planning and Notification
40 CFR 403	General Pretreatment Regulations for Existing and New Sources of Pollution
40 CFR 745	Lead-Based Paint Poisoning Prevention in Certain Residential Structures
40 CFR 761	Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions
44 CFR 9	Floodplain Management and Protection of Wetlands

Citation	Description
44 CFR 60	Criteria for Land Management and Use; Subpart C: Considerations in Managing Flood Prone, Mud-slide Prone, and Flood Related Erosion Prone Areas
49 CFR 171-178	U.S. Department of Transportation (DOT) Hazardous Materials Regulations

1.4.2. Executive Orders (EO) and United States Code (USC)

Citation	Description
EO 11990	Protection of Wetlands
EO 11988	Flood Plain Management
EO 13514	Federal Leadership in Environmental, Energy, and Economic Performance
42 USC 170001 Section 438	Energy Independence and Security Act of 2007
16 USC 703-771	Migratory Bird Treaty Act
42 USC 300f	Safe Drinking Water Act

1.4.3. State of Alaska Regulations and Statutes

Citation	Description
18 AAC 34.020	Prohibited and Restricted Noxious Weeds
18 AAC 30	Environmental Sanitation
18 AAC 50	State of Alaska Air Quality Control Regulation
18 AAC 60	Solid Waste Management
18 AAC 62	Hazardous Waste
18 AAC 63	Siting of Hazardous Waste Management Facilities
18 AAC 70	Water Quality Standards
18 AAC 72	Wastewater Disposal
18 AAC 75	Oil and Hazardous Substances Pollution Control
18 AAC 78	Underground Storage Tanks
18 AAC 80	Drinking Water
18 AAC 83	Alaska Pollutant Discharge Elimination System Program
18 AAC 85	Radiation Protection
18 AAC 90	Pesticide Control
AS 16.05.871-901	Anadromous Fish Act
AS 16.05.841	Fishway Act

1.4.4. USAF and DoD Instructions, Manuals, and Policy Directives

Citation	Description
AFI 32-7040	Environmental Restoration Program
AFI 32-7001	Environmental Management
AFMAN 32-1052	Integrated Pest Management

Citation	Description
AFMAN 32-7002	Environmental Compliance and Pollution Prevention
AFMAN 32-7003	Environmental Conservation
AFPD 32-70	Environmental Considerations in Air Force Programs and Activities
DoDI 4715.23	Integrated and Solid Waste Management

1.4.5. JBER Environmental Program Management Plans

- Integrated Hazardous Material Plan (IHMP)
- Integrated Solid Waste Management Plan (ISWMP)
- Hazardous Waste Management Plan (HWMP)
- Integrated Pest Management Plan (IPMP)
- Integrated Natural Resources Management Plan (INRMP)
- Urban Forest Management Plan (UFMP)
- Industrial Wastewater Management Plan (IWMP)

2. GENERAL ENVIRONMENTAL REQUIREMENTS

2.1. Project Features: The Contractor and the COR shall conduct a joint condition survey of the construction or project site prior to start of any onsite construction activities.

2.1.1. The Contractor shall prepare a brief report including a plan describing the features requiring protection under the provisions of the contract that are not specifically identified on the drawings as environmental features requiring protection. The report shall include a description of the condition of trees, shrubs, and grassed areas immediately adjacent to the work site and adjacent to the Contractor's assigned storage and laydown areas; as well as, all access route(s), as applicable.

2.1.2. The Contractor and the COR shall sign the condition survey report upon mutual agreement that it is accurate and complete. The Contractor shall protect those environmental features included in the survey report and any indicated on the drawings, regardless of interference which their preservation may cause to the work under the contract.

2.2. Pre-Construction Meeting: The Contractor shall attend the pre-construction meeting to review the scope of work with the COR, project manager(s), JBER Environmental Flight, Safety, and Security Forces and any other relevant personnel.

2.2.1. Environmental Brief: JBER Environmental Flight shall provide the Contractor with an environmental brief during the Pre-construction Meeting. The environmental brief shall include a discussion of all relevant environmental regulatory and permitting requirements.

- 2.2.2. The Contractor shall provide information regarding equipment, hazardous materials that will be used and wastes that could potentially be generated during the project. The Contractor shall convey the results of the pre-construction condition survey.
- 2.3. Environmental Protection Plan (EPP): The Contractor shall submit an EPP within 15 working days after contract award and 10 working days prior to the pre-construction meeting. The EPP shall describe the environmental measures taken to protect environmental, natural, and cultural resources during project execution.
- 2.3.1. Implementation of EPP: The Contractor shall meet with the COR and a representative from the 673 CES/CEIEC to discuss the implementation of the EPP. Contractor shall revise the EPP throughout the project to include any reporting requirements, changes in site conditions, or contract modifications that modify the project scope of work in a way that could have an environmental impact. The Contractor shall submit changes to the EPP for approval to the COR and 673 CES/CEIEC. No requirement shall relieve the Contractor of any federal, SOA, and local environmental protection laws and regulations. The Contractor shall maintain the current version of the EPP on site.
- 2.3.2. Contents of EPP: The EPP shall include, but is not limited to, the items listed below. Contractor shall provide details for each item listed. Contractor shall identify items that are not applicable to the project and provide a rationale describing why the item does not apply. Contractor shall also include discussions of any environmental issues germane to the work, even if a particular topic may not appear in the following list:
- a. Spill Prevention and Control Plan
 - b. Solid Waste Management
 - c. Wastewater Management Plan
 - d. Ambient Air Pollution Control Plan
 - e. Contamination Prevention Plan
 - f. Historical, Archeological, and Cultural Resources Protection Plan
 - g. Biological Resources Protection Plan (Wildlife and Vegetation)
 - h. Invasive Species Management Plan
 - i. Hazardous, Toxic, and Radioactive Waste (HTRW) Plan
 - j. Non-Hazardous Solid Waste Disposal Plan
 - k. Borrowing Material Plan
 - l. Traffic Control Plan
- 2.3.3. Appendix of EPP: Contractor shall attach copies of all environmental permits, permit application packages, approvals to construct, notifications, certifications, reports, and termination documents. Contractor shall include a letter signed by appointing an Environmental Manager that will be responsible for implementing the environmental requirements described in the contract and the specifications herein. The appointment letter shall be signed by the Contractor's authorized representative

3. PROTECTION OF LAND, NATURAL, AND CULTURAL RESOURCES

- 3.1. General: The Contractor shall furnish all labor, materials and equipment required to protect environmental quality and prevent environmental pollution resulting from work performed in accordance and/or in violation of these specifications. Environmental pollution is defined as any activities, actions or consequences of Contractor activity that produce an undesirable effect on the human environment, including environmental resources such as land, water, air, or sound. Land and water resources within the project boundaries and any other location visited by the Contractor shall be preserved or referred to conditions existing prior to this contract. The Contractor shall confine construction activities to areas allowed by the plans and specifications.
- 3.2. Noxious and Invasive Species: Contractor shall employ best management practices to prevent the new introduction or spread of noxious or invasive species in to or within JBER in accordance with the JBER Noxious or Invasive Species Management Plan. Contractor shall inspect and clean all equipment, tools, vehicles, etc. to ensure they are free of plant fragments, seeds, or other viable propagules prior to mobilizing to JBER.
- 3.3. Landfill Disposal: All non-regulated waste including asbestos materials shall be disposed in an off-base state-approved site.
- 3.4. Waters Including Wetlands: Contractor shall not enter, disturb, destroy, or allow discharge of soil, debris or any other contaminants into waters or wetlands, except as authorized by the contract. Authorization to enter specific waters identified does not relieve the Contractor from any obligation to protect other waters within, adjacent to, or in the vicinity of the construction site and associated boundaries. In accordance with the JBER INRMP, a 15-foot vegetated buffer between project limits and any wetland or waterway must be established. If the wetland or waterway is adjacent to an anadromous system, then the buffer is to be not less than 100 feet.
- 3.5. Existing Structures and Utilities: Contractor shall not start excavation work until all existing site utilities have been located. The Contractor shall take the necessary precautions to ensure no damage occurs to existing structures and utilities. Contractor shall repair damage to existing structures and utilities, including monitoring wells and remediation systems, resulting from the Contractor's operations at no additional cost to the Government. Utilities encountered that were not previously shown or otherwise located shall not be disturbed without written approval from the COR.
- 3.6. Landscape Preservation: The Contractor shall not remove, disturb, injure, or destroy trees, shrubs, or any other surface vegetation without written authority from the COR.
 - 3.6.1. The Contractor shall protect all trees at the project boundary or within the project work area that are not specifically designated for removal on the contract drawings.

Protection measures shall include erection of sturdy barriers installed at a minimum distance of 10' from each tree.

- 3.6.2. Contractor shall maintain all barriers intact until all grading, construction and landscaping work are complete, with exception of contouring upon removal of the barriers.
- 3.6.3. Contractor shall contour all slopes by hand digging and hand raking to blend the protected areas into the final grade, after barrier removal. Contractor shall manage construction activities in and around landscaped areas, including installation or replacement of landscape trees in accordance with the Urban Forest Management Plan (UFMP). All seeding requirements must use mixes in accordance with the JBER INRMP Section 7.7.7.
- 3.7. Location of Temporary Field Offices, Storage, and Laydown Areas: The Contractor shall obtain written permission from the COR for locating any temporary office, storage, or other buildings on USAF controlled property. The Contractor shall request location of said facilities by submitting a letter and location drawing to the Contracting Officer. Contractor shall restore the areas where these facilities will reside to pre-construction condition at no expense to the Government.
- 3.8. Cultural Resources
 - 3.8.1. Archeological Resources: The JBER Cultural Resources Program Manager shall provide the Contractor with locations and restrictions if known archaeological resources exist within the work area. The Contractor shall protect these resources and be responsible for their preservation during the life of the contract.
 - 3.8.2. Contractor shall suspend work if any previously unidentified or unanticipated historical, archaeological, and cultural resources are discovered or found during excavation or other construction activities that may damage or alter such resources.
 - a. Resources covered by this paragraph include but are not limited to any human skeletal remains or burials; artifacts; shell, midden, bone, charcoal, or other deposits; rock alignments, structural remains or other constructed features; and any indication of agricultural or other human activities.
 - b. Contractor shall immediately notify the COR and JBER Cultural Resources Manager upon such discovery or find to ensure the appropriate authorities can be notified, and a determination made as to their significance and what, if any, special disposition of the finds should be made.
 - c. Contractor shall cease all activities that may result in impact to or the destruction of these resources. Contractor shall secure the area and prevent employees or other persons from trespassing on, removing, or otherwise disturbing such resources. The Government retains ownership and control over archaeological resources.

- 3.8.3. Historical Resources: Cultural Resources Program Manager shall provide locations and restrictions to Contractor if known historical resources exist within the work area. Contractor shall protect these resources and be responsible for their preservation during the life of the contract.
- a. Contractor shall avoid all activities that may damage or alter these resources unless otherwise specified by Cultural Resources Program Manager. Contractor shall immediately notify the COR and Cultural Resources Program Manager if a historical resource is damaged or altered to ensure the appropriate authorities may be notified.
 - b. Contractor shall cease all activities that may result in impact to or the destruction of these resources. Contractor shall secure the area and prevent employees or other persons from trespassing on, removing, or otherwise disturbing such resources.
- 3.9. Biological Resources: Contractor shall minimize interference with, disturbance to, and damage to fish, wildlife, and plants including their habitat. The protection of threatened and endangered animal and plant species, including their habitat, is the Contractor's responsibility. Contractor shall protect all biological resources encountered in and around the project area in accordance with federal, SOA, regional, and local laws, and regulations. Contractor shall adhere to the requirements identified in the JBER INRMP.
- 3.9.1. Migratory Birds: Migratory bird species occurring on JBER are protected under the Migratory Bird Treaty Act (MBTA) on JBER. The MBTA stipulates that once a bird establishes a nest and lays eggs, it is against federal law to disturb the nest or annoy the birds to get them to abandon the nest. Contractor shall only conduct clearing of grass, scrub land, and forested areas before 1 May or after 15 July to minimize impacts on ground and tree nesting birds.
- 3.9.2. Bald and Golden Eagles. Bald and Golden Eagles are protected under the Bald and Golden Eagle Protection Act (BGEPA). Contractor shall comply with this act during the design and construction phases of a project.
- 3.9.3. Contractor shall make note of the presence of these protected bird species and their nests during the pre-condition survey and again prior to initiating construction with each new season to ensure compliance with the MBTA and BGEPA.
- a. The non-observance or apparent absence of birds or their nests during the environmental review process does not mean that an area is free of birds or their nests.
 - b. Contractor shall obtain clearance from the JBER Avian Wildlife Biologist prior to construction. Contractor shall obtain required permit(s) prior to construction.
- 3.9.4. The Contractor shall be responsible for all, or any delays and charges filed by U.S. Fish and Wildlife Service and the SOA Department of Public Safety due to its

negligence in removing and/or annoying birds or nests protected under the MBTA and BGEPA.

3.9.5. Contractor shall contact the Avian Wildlife Biologist immediately if any nests are observed or wildlife issues occur within the project area prior to and during construction.

3.9.6. Mammals

- a. Bats: Contract shall not harass or kill little brown bats (LBB), which are managed as an unclassified game species in the SOA. Bat species cannot be legally harassed or killed, except under the terms of a wildlife nuisance permit issued by the SOA Department of Fish and Game. Contractor shall contact the Bat Program Manager if bats are discovered since limited information on roosting locations of LBB exist on JBER.
- b. Brown and Black Bears: The Contractor shall manage solid waste and materials in a manner that deters wildlife including brown and black bears from creating a nuisance within project area. Such measures include policing construction site for food containers and food wastes regularly, storing trash within a secured structure and ensuring dumpster lids are securely closed.

3.9.7. Fish and Aquatic Species: The Contractor shall contact the Fisheries Biologist if a project has the potential to affect fish and aquatic species.

4. MILITARY MUNITIONS: Contractor shall immediately stop work in the area within a project site in the event military munitions, as defined in 40 CFR 260, are discovered, or uncovered. The Contractor shall inform the Contracting Office regarding the discovery or uncovering of military munitions.

5. PROTECTION OF AMBIENT AIR QUALITY

5.1. Stationary Sources: Contractor shall coordinate replacement of existing or installation of new emission sources with the JBER Air Quality Program Manager through the COR. Contractor shall not purchase the proposed equipment until it has been approved consistent with the contract requirements. Emission sources in need of prior approval include, but are not limited to engines (generators, firewater pumps, water pumps, aircraft arrestors, etc.), boilers, heaters, volatile organic storage vessels, paint booths, incinerators, and degreaser/solvent tanks. Contractor shall complete a permit and regulatory applicability determination and provide it to the COR as part of the approval process to ensure all regulatory and permitting requirements are met prior to installation of the emission sources.

5.1.1. Contractor shall provide, the make, model, model year, fuel input rating, and maximum input rating of each emission source being installed as part of the project. For boilers and heaters, the heat input rating shall be provided in British Thermal Units per hour (Btu/hr). For generators. Contractor shall provide this information

for both the engine and the equipment it drives or powers (ex. generator, firewater pump, deluge pump, or crushers). For the engine, the input rating shall be provided in mechanical kilowatts or brake horsepower. Generator rating shall be provided in electric kilowatts and shall be the output rating rather than the input rating. The length, width, diameter, roof type, and maximum volume shall be provided for volatile organic liquid storage tanks/ vessels.

- 5.1.2. All diesel-fired engines installed on base shall comply with the New Source Performance Standards (NSPS) in 40 CFR 60 Subpart IIII and combust Ultra -Low Sulfur Diesel (ULSD). These engines cannot combust JP-8. Projects involving the replacement of existing diesel engines must include provisions to remove low sulfur or high sulfur diesel fuel, or JP-8 from existing storage tanks and replace the fuel with ULSD. If the existing tanks are removed and replaced with new tanks, it/they should be designed to store ULSD.
- 5.1.3. All gasoline- fired and natural gas-fired engines shall comply with NSPS in 40 CFR 60 Subpart JJJJ. Contractor shall ensure the engine complies with the applicable rules prior to purchase of equipment.
- 5.1.4. All boilers and heaters shall comply with the National Emission Standard for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers Area Sources, if applicable. Boilers that have an input greater than or equal to 10 million Btu/hr shall comply with NSPS in 40 CFR 60 Subpart Dc.
- 5.1.5. Contractor shall ensure Volatile organic liquid (VOL) storage vessels subject to the NSPS Subpart Kb comply with requirements in the rule prior to final design approval and construction. VOL storage vessels that are greater than or equal to 75 cubic meters (19,812.9 gallons) and less than 151 cubic meters (39,889.9 gallons) that will store VOLs with a maximum true vapor pressure greater than 15 kilopascals and VOL storage vessels with a storage capacity greater than 151 cubic meters and a maximum true vapor pressure greater than 3.5 kilopascals are subject to the rule.
- 5.2. Mobile and Non- Road Engine (NRE) Sources: Contractor shall monitor use of NREs, and other mobile sources brought on to JBER in support of a project to ensure that these units do not become classified as stationary sources by remaining on project site for more than 12 consecutive months. Contract shall monitor residency time of its NREs and mobile sources through recordkeeping. Contractor shall maintain a log documenting the date the NRE and mobile sources arrive on and depart from the project site. Contractor shall work with COR to establish temporary connection to power utility for construction projects expected to exceed 12 months at a single site. Connecting to the power utility temporarily will eliminate the need for maintaining portable, primary power generators on site for more than 12 consecutive months or seasonally for more than 3 consecutive months for the duration of the construction project. Contractor shall contact COR immediately if a NRE or mobile source has the potential to exceed the residency restrictions.

- 5.3. Fugitive Dust Emissions: The Contractor shall control fugitive dust emissions consistent with 18 AAC 50.045(d). Fugitive dust emissions (airborne dust generated by vehicles operating on unpaved surfaces, transfer or transport of dust producing materials, etc.). Contractor shall implement fugitive dust control measures at the construction site, along haul routes and at staging areas. The Contractor shall be required to maintain all excavations and excavation activities, embankments, stockpiles, hauling activities and all other work areas free from airborne dust. Dust control shall be practiced as required for the term of the contract. The cost of any required dust control will be borne in full by the Contractor. Dust control measures include application of water on roads, entry points, and material stockpiles. Dust suppressants can also be applied in lieu of water. Coordination with JBER Water Quality Program Manager and other Program Managers may be required for use of dust suppressants.
- 5.4. Open Burning: The Contractor shall not engage in any open burning activities on JBER controlled properties.
- 5.5. Asbestos Containing Material (ACM): Contractor shall prepare and submit any required notifications of intent (NOI) for renovation and demolition work that will disturb ACM and regulated (R) ACM to the EPA Region 10 consistent with notification requirements found in 40 CFR 61 Subparts A and M. Contractor shall manage and dispose of ACM and RACM waste in accordance with 40 CFR 61 Subparts A and M.
- 5.6. Ozone Depleting Substances and Significant New Alternative Policy (SNAP) Refrigerants: Contractor shall not removal any equipment containing Class I and II ODS and shall coordinate evacuation of ODS containing equipment with 773 CES HVAC Shop, Contractor-operated Shop on JBER, and JBER Air Quality Program Manager to ensure it is disposed of properly and in conformance with USAF and DoD policy and instruction. Refrigerant must be evacuated in accordance with 40 CFR 82 prior to equipment disposal. The DoD has identified select Class I and Class II ODS that must be turned-in to Defense Logistics Agency (DLA) for retention in the DoD strategic stockpile. Contractors and subcontractors are prohibited from removing intact equipment containing these Class I and Class II ODS and taking it off base for evacuation. These substances are listed below.

CHEMICAL NAME		ODS CLASS
Refrigerants		
R-11	Trichlorofluoromethane	CFC, Class I
R-12	Dichlorodifluoromethane	CFC, Class I
R-114	Dichlorotetrafluoroethane	CFC, Class I
R-500	Azeotropic mixture of CFC- 12 and HFC-152A (1,1 Difluoroethane)	CFC and HFC, Class I and II

CHEMICAL NAME		ODS CLASS
R-502	Azeotropic mixture of CFC- 115 and HCFC-22	CFC and HCFC, Class I and II
R-22	Chlorodifluoromethane	HCFC, Class II
Fire Suppression Chemicals		
Halon 1202	Dibromodifluoromethane	Halon, Class I
Halon 1211	Bromochlordifluoromethane	Halon, Class I
Halon 1301	Bromotrifluoromethane	Halon, Class I
Solvents		
Methyl Chloroform	1,1,1 Trichloroethane	Class I
CFC-113	Trichlorotrifluoroethane	CFC, Class I

- 5.7. Contractor shall determine if any other Clean Air Act rules apply to the project and provide the JBER Air Quality Program Manager with a copy of their regulatory applicability review summary document.
- 5.8. Contractor shall prepare and provide all air quality permit applications required for the installation of new emission sources, if applicable, to the JBER Air Quality Program Manager for review and staffing by the JBER Installation Commander. The permit application shall include all the required Alaska Department of Environmental Conservation (ADEC) forms, emission calculations, vendor specifications that provide the input rating, and fuel consumption rating, and emission rates; as well as a copy of the Certificate of Conformity (for engines).

6. PROTECTION OF WATER QUALITY

6.1. Surface and Ground Water:

- 6.1.1. The Contractor shall not install, alter, or modify any Class V underground injection control wells without prior approval. Contractor must demonstrate that other options are either technically cost prohibitive or would adversely impact mission requirements. Contractor shall submit exception documentation to the JBER Water Quality Program Manager before any installation, alterations, of modification may proceed to ensure compliance with the Safe Drinking Water Act, 40 CFR Part 144.
- 6.1.2. The Contractor shall not operate equipment or machinery in any stream or lake without written permission from the Contracting Officer.
- 6.1.3. The Contractor shall prevent the deposition of any materials (including earth fill, vegetative waste, oils, and grease) into any stream or lake. Any such accidental deposit will be immediately reported to the COR.
- 6.1.4. The Contractor shall not discharge effluent from any process, including water-washing processes, into the sanitary sewer or storm drain system. Effluent and residues shall first be collected, sampled, and tested for compliance with ADEC's Alaska Pollutant Discharge Elimination System (APDES) regulations for discharge.

Disposal shall be made in accordance with APDES requirements based on the test results. Sampling, testing, and disposal costs shall be borne in full by the Contractor.

- 6.2. Wastewater: Anchorage Municipal Code (AMC), Title 26, Chapter 26.50, Part 3, Section 200 requires significant industrial users to have a permit to discharge wastewater into the municipal sewer system. JBER is an indirect discharger of non-domestic wastewater and contributes more than five percent of Anchorage Water and Wastewater Utility (AWWU) total wastewater load per day; thus, JBER is classified as a significant industrial user. As required by AWWU Industrial Wastewater Discharge Permit #11 (JBER AWWU Permit), JBER's Industrial Wastewater Management Plan describes how activities are managed at JBER to minimize the chance of discharging toxic and/or hazardous pollutants into the municipal sewer system.
 - 6.2.1. The Contractor shall prevent the discharge of any substance that may upset or degrade the municipal sewer system, cause health or safety problems, or exceed JBER AWWU Permit effluent limits. The primary applicable regulations that help ensure JBER's wastewater discharges comply with the permit requirements are:
 - a. 40 CFR 112 – Oil Pollution Prevention, (2015)
 - b. 40 CFR 403 – Pretreatment Standards.
 - c. 18 AAC 75 – Oil and Other Hazardous Substances Pollution Control
 - d. AMC 26.50.200 – Sewer Service Wastewater Discharge Permits
 - 6.2.2. Notification for discharges to the system: AWWU notification requirements are defined in the JBER AWWU Permit. Slug discharges are defined as any substance released at a rate or concentration that could cause a violation of the discharge standards, or any discharge of a non-routine, episodic nature. Slug discharges include, but are not limited to, accidental spills or a non-customary batch discharge. The Contractor shall immediately notify the COR and JBER Water Quality Program Manager of a discharge in the following situations:
 - a. Any discharge to the sewer system of substances prohibited by AMC 26.50.050, or which may endanger public health.
 - b. Any spill of material prohibited by AMC 26.50.050 or slug discharge which may enter the sanitary sewer system.
 - c. Any unanticipated treatment bypass or upset which may exceed effluent limitations outlined in JBER AWWU Permit Sections 1.C. and 1.D.
 - d. The notifications shall include the following: location of the discharge; date and time of discharge; type of material/waste; concentration and volume of discharge; and corrective actions taken.
- 6.3. Stormwater:
 - 6.3.1. The Contractor shall obtain all permits required by the applicable SOA and federal regulations regarding protection of water resources including coverage under the ADEC APDES General Permit for Discharges from Large and Small Construction Activities (CGP).

- 6.3.2. Construction projects that disturb less than one acre of soil within the U.S. Bureau of Census-designated Urbanized Area of JBER that have the potential to discharge to JBER's storm drain system or other waters (e.g., streams, lakes, wetlands) shall operate under an erosion and sediment control plan (ESCP) consistent with the JBER Stormwater Management Plan. The Contractor shall submit the ESCP to the JBER Water Quality Program Manager for review prior to beginning ground disturbance. Contractor shall refer to ADEC Alaska Storm Water Guide (<https://dec.alaska.gov/water/wastewater/stormwater/guidance/>) for additional information. The Contractor shall be responsible for the cost of preparing the project specific ESCP.
- 6.3.3. Construction projects that disturb 1 or more acres of land and have the potential to discharge to JBER's storm drain system or other waters (e.g., stream, lakes, wetlands) shall operate under ADEC APDES CGP. The Contractor shall submit the following notifications and a Stormwater Pollution Prevention Plan (SWPPP) in conformance with the ADEC APDES CGP:
- a. NOTICE OF INTENT (NOI): The Contractor shall provide the JBER Water Quality Program Manager and the COR, with an ADEC approved Construction General Permit NOI.
 - b. NOTICE OF TERMINATION (NOT): Upon final stabilization and completion of the project work, the Contractor shall provide JBER Water Quality Program Manager and the COR a copy of the NOT.
 - c. SWPPP: The CGP requires submittal of a SWPPP. The Contractor shall submit the project specific SWPPP for projects less than five acres in size to the JBER Water Quality Program Manager and COR for review prior to beginning construction. The Contractor shall submit SWPPPs for JBER projects that are 5 acres or more in size to the JBER Water Quality Program Manager, COR, and ADEC at the time the NOI is filed. The Contractor shall be responsible for the costs associated with preparation of these documents, any permit fees, and maintaining compliance with the permit authorization.

7. PROTECTION FROM TOXIC MATERIALS

- 7.1. ACM and RACM: Contractor shall manage and dispose of ACM and RACM in accordance with 40 CFR 61 Subparts A and M, 29 CFR 1910.1001, and 29 CFR 1926.1101, as applicable.
- 7.1.1. Contractor shall maintain waste shipment/disposal records for all ACM and RACM waste and provide the shipment/ disposal records to the COR.
- 7.1.2. Contractor shall submit all required notifications to Alaska Occupational Safety and Health and EPA Region 10 prior to starting any asbestos work.

- 7.1.3. Contractor shall not possess or use ACM in any project on JBER.
- 7.1.4. Contractor shall prepare and submit an asbestos abatement plan to the COR that includes, but is not limited to, a description of the work, methods of containment and airborne fiber mitigation, management of waste, disposal, air testing and copies of certifications for workers.
- 7.1.5. Contractor shall submit copies of notifications to USEPA Region 10 required under 40 CFR 61.145(a)(1), 61.145(a)(3), and 61.145(b) to the COR, Asbestos Program Officer, and the Asbestos Operating Officer. Contractor shall coordinate with JBER Toxics Program Manager and 773 CES/CEOI Insulation Shop to ensure all asbestos abatement associated with the project are documented.
- 7.2. The Contractor shall submit copies of all completed waste shipment/ disposal records that have been signed by the receiving landfill to 773 CES/CEOI Insulation Shop. The Contractor shall follow the current JBER Asbestos Management and Operations Plan which states:
 - 7.2.1. Contractor is responsible for identifying ACM and RACM prior to conducting maintenance, abatement, renovation, or demolition activities.
 - 7.2.2. Contractor is responsible for contacting 773 CES/CEOI shop to ascertain presence or absence of ACM.
 - 7.2.3. Contractor is responsible for providing proper notifications and copies to records to the JBER Toxics Program Manager and 773 CES/CEOI Insulation Shop.
- 7.3. Lead Based Paint:
 - 7.3.1. Contractor shall be responsible for identifying lead-contaminated waste, including lead-based paint, prior to conducting maintenance, abatement, renovation, or demolition activities.
 - 7.3.2. The Contractor shall manage and dispose of lead-contaminated waste in accordance with 40 CFR 745. Contractor shall manifest any Resource Conservation and Recovery Act (RCRA) hazardous lead- contaminated waste and provide the manifest to the COR. RCRA hazardous lead waste manifests must be completed in accordance with the 01600 Management of Hazardous and Solid Waste - JBER, section 3.6. **Only authorized JBER Environmental Compliance personnel will sign Uniform Hazardous Waste Manifests (UHWMs) for the shipment of HW generated on JBER.**
 - 7.3.3. The Contractor shall maintain waste shipment records for all non-RCRA hazardous lead-contaminated waste and provide the records to the COR. Contractor shall not use paint with a lead content of 0.06 percent or greater in any capacity on JBER,

unless specifically approved in advance by JBER Bioenvironmental Engineering, 673 MDSS/SGB, 384-3985 and the JBER Hazardous Materials Program Manager.

- 7.3.4. Contractor shall not use oil-based paint for pavement striping purposes in any capacity on JBER unless specifically approved in advance by the JBER Hazardous Materials Program Manager.
- 7.4. Other Toxic Materials: The Contractor shall properly manage and dispose of all other toxic substances in accordance with the Toxic Substances Control Act (40 CFR, Subchapter R).

8. PROTECTION FROM AND MANAGEMENT OF HAZARDOUS MATERIALS

- 8.1. Contractor shall adhere to the hazardous material requirements stipulated in 29 CFR 1910, 49 CFR 171-178, federal acquisition regulation clause 52.223-5, federal standard 313, AFMAN 32-7002, AFI 90-821, JBERI 32-2001, and JBER Integrated Hazardous Material Plan (IHMP), while performing work on JBER. Contractor shall be responsible for identification, proper handling, use, storage, transportation, and disposal of all HAZMATs brought on JBER.
- 8.2. HAZMAT Definitions: A Hazardous Material or HAZMAT is any material that poses a risk to personnel, equipment, or the environment. The typical identification method is to review the manufacturer Safety Data Sheet (SDS) of the material. Hazards include but are not limited to explosive, flammables, compressed gases, combustibles, water reactive, oxidizers, organic peroxides, poisons, infectious materials, radioactive materials, and corrosives. All HAZMAT must be approved by 673 CES/CEIEC Joint Base Elmendorf Richardson (JBER) Environmental, prior to being brought on JBER. Contractor shall abide by contractor HAZMAT approval process in the most current version of the JBER IHMP.
- 8.3. HAZMAT Approval: Contractor shall adhere to HAZMAT approval process in current version of the JBER IHMP. To bring any HAZMAT onto JBER contractor will need approval from JBER 673 CES/CEIEC Environmental Office. Contractor may be required to show proof of HAZMAT approval while operating on JBER. Requests for HAZMAT approval must be submitted through the Contracting Officer Representative (COR). The COR can send requests to 673CES.CEIEC.EnvCom@us.af.mil or to the current HAZMAT Program Manager (PM). Recommend submitting HAZMAT approval requests at least 10 days prior to being brought on JBER. The requests will include at a minimum the items listed below, but please submit JBER HAZMAT Tracking Form found at this location: <https://www.jber.jb.mil/Services-Resources/Environmental/Compliance/>
1. All HAZMAT SDSs
 2. Dates HAZMAT will be on JBER
 3. HAZMAT container sizes
 4. Max quantity of each HAZMAT that will be on JBER at a given time.

- 8.4. Tracking: If capable all HAZMAT will be submitted and tracked through Enterprise Environmental Safety Occupational Health-Management Information System (EESOH-MIS). This is required for contracts longer than 3 years. Contractor will coordinate through their COR to get the training/access required.
- 8.5. HAZMAT Transportation: Contractor will abide by all state and federal regulations to include but not limited to 49 CFR 171-178 DOT Hazardous Materials Regulations and 29 CFR 1910.1200.
- 8.6. HAZMAT Storage: Store HAZMAT in original unaltered container or a properly labeled container, suitable to contain the HAZMAT. Containers shall remain closed when not in use. Contractor is required to have the correct SDS for all HAZMAT on hand. Contractor will avoid and prevent material release into the environment, unless given permission to do so by their COR. Contractor will store materials with a Flash Point of 200°F or less, or combustible in a flammable storage cabinet meeting JBERI 32-2001 requirements. Contractor will store materials with a PH of 1-2 or 13-14 in a corrosive materials cabinet. Contractor will store all HAZMAT appropriately and, in a manner, to avoid material incompatibility. Contractor is responsible to provide, manage and maintain emergency response items, materials, secondary containment, and spill response materials suitable for the material being used/stored.
- 8.7. Deficiency Correction: Contractor shall correct all identified deficiencies for improper storage, labeling, and use of HAZMATs under their control. Corrections may require removal of these materials from JBER within 24 hours. All corrective action costs and/or removal costs shall be the responsibility of the Contractor.
- 8.8. Hazardous Communications: Reference: 29 CFR 1910.1200, Alaska Statutes Section 18.60.010, and Air Force Manual 90-821 Hazard Communication (HAZCOM) Program.
 - 8.8.1. The Contractor shall establish and implement a written HAZCOM program, meeting the requirement of 29 CFR 1910.1200 and Alaska Statutes Section 18.60.010 Subchapter 15. This program shall be fully implemented prior to start of work. The HAZCOM program will be updated with any changes to process or materials. Contractor shall submit their hazard communication plan to the COR for approval a minimum of 20 working days prior to the start of work.
 - 8.8.2. The Contractor shall provide workplace HAZCOM training to meet 29 CFR 1910.1200 requirements to all personnel who will be working at or on the project site if HAZMAT or toxic materials are present. Training must be provided to Contractor, sub-contractor, Governmental inspectors, and any other personnel working on the site.
 - a. Contractor shall document completion of training in writing with the trainer and trainee signing the document.
 - b. Contractor shall provide a copy of the training record to the trainee and the COR. Contractor shall maintain all HAZCOM training records on site for review by JBER and outside agency inspectors.

8.8.3. Hazard Communications information relating to Government supplied materials and hazards presented by Government operations at or in the Contractor's job site may be obtained through the COR. The COR may obtain this information from Bioenvironmental Engineering. Requests for information must be made in writing to the Contracting Officer with sufficient lead time to allow Bioenvironmental Engineering a minimum of 20 working days to process the request.

9. HAZARDOUS NOISE: Contractor shall identify all equipment that it will bring JBER that produces noise levels over 84 dBA ("A" weighted decibels) as a hazardous noise source. The Contractor shall use this equipment in a manner that precludes exposure of non-contractor personnel to levels exceeding 84 dBA.

10. HAZARDOUS MATERIALS SPILLS

10.1. Contractor shall comply with the most recent ADEC regulations and guidance pertaining to spill response and cleanup of contaminated sites.

10.2. The Contractor shall provide a Spill Prevention and Control Plan (SPCP) to the COR and JBER Spill Program Manager for review and approval. The Contractor shall, at minimum, describe the methods it will use to prevent and respond to HAZMAT spills; as well as, a list of equipment, materials, and supplies it will maintain on site for spill response in the SPCP. The SPCP shall include the information required by Section 01600 – Management of Hazardous and Solid Waste on JBER.

10.3. Contractor shall maintain spill kits and absorption materials at the project site at a location that is readily and immediately accessible in the event of spill. The Contractor shall replenish these materials as needed.

10.4. The Contractor shall be responsible and liable for all costs associated with a spill or release it causes including, but not limited to all labor costs associated with spill response and clean up, sampling and analysis of soils or water contaminated by the spill, and disposal costs.

10.5. Contractor shall obtain prior approval from 673 LRS/LGRF Fuels Management and JBER Spills and Tanks Program Manager for the installation of every permanent, above-ground storage tanks (ASTs) that will contain petroleum, oils, and lubricants (POLs) or other HAZMATs brought on or constructed on to JBER. Underground Storage Tanks (USTs) shall not be installed on JBER. Contractor shall obtain prior approval for the use of portable and mobile POL, fuels, and HAZMAT containing storage tanks brought on to JBER.

10.6. Spill Reporting

10.6.1. The Contractor shall immediately report all spills it causes or discovers during excavation activities by calling 911. Contractor must request to be connected to JBER Fire and Emergency Services if using a cellular phone to call 911. The Contractor shall notify the COR after reporting the spill to JBER Fire and Emergency Services.

10.6.2. Contractor shall provide the following documentation and information for each spill to the JBER Spills and Tanks Program Manager:

- a. The date, time, and volume of material for each spill.
- b. Location of the spill including a latitude and longitude and identify the coordinate system used.
- c. Provide photographs and a map.
- d. Provide documentation to the COR and JBER Spill Manager within three business days after spill clean-up is complete.
- e. Document spill reporting activities and notifications in writing within 24 hours and in the daily report.
- f. Work with the JBER Spills and Tanks Program Manager to make all the required agency spill reporting notifications.

10.6.3. The Contractor can contact the JBER Spill Manager for the JBER Spill Reporting Poster and requirements at by emailing 673 CES.CEIEC.EnvCom@us.af.mil and the Spill Program Manager listed in the Environmental Office Contact List.

10.7. Spill Response

10.7.1. The Contractor shall take steps to confine, contain, report, and clean up any leak or spill it causes or discovers in conformance with JBER, EPA and ADEC spill response procedures.

10.7.2. The Contractor shall inspect all tanks or other types of storage vessels that contain fuel, POLs, or HAZMAT daily for leaks. Contractor shall take the following actions if a leaking tank or vessel is discovered:

- a. Follow spill response and reporting procedures in paragraph 10.6.
- b. Immediately drain and containerize remaining materials from leaking tanks or storage vessels to prevent further releases.
- c. Externally clean and place the compromised tanks or storage vessels into an appropriate container prior to transport.

10.7.3. Contractor shall collect samples and analyze soil or water contaminated by the release or spill to determine the concentration of each suspected contaminant to screen and segregate them before excavation. Contractor shall follow the contaminated soil testing and disposal procedures in found 18 AAC 75. Contractor shall take the following actions:

- a. Properly stockpile contaminated soils in accordance with ADEC regulations.

- b. Obtain approval from JBER Environmental Flight prior to transport and disposal of contaminated soil off the installation.
- c. Complete the ADEC Division of Spill Prevention and Response Transport, Treatment and Disposal Approval Form for the Contaminated Media. The Contractor shall submit the form to ADEC for approval, prior to transporting the soil from the incident site. The Contractor shall provide a copy of the form to the COR and JBER Spill Manager.
- d. Transport and dispose of contaminated soils to an ADEC disposal facility approved for the pollutants identified in soil based on test results.

10.7.4. The Contractor shall immediately stop excavation activities being carried out as part of its scope of work if fuel, POLs, or other HAZMATs are discovered in the soil being removed or if a container uncovers a container(s) with an unknown substance. The Contractor shall take the following actions when contaminated soils or water are discovered:

- a. Report suspected contamination using the spill reporting process in paragraph 10.6.
- b. Discontinue work in the immediate area (100-foot radius), cordon it off to control access and wait to resume excavation until approval received from the COR.
- c. Segregate and stockpile suspected contaminated material in accordance with the EPP and Sampling and Analysis Plan. Both the excavation and the stockpiled soil shall be field screened and sampled for suspected contaminants.
- d. Provide field screening notes within 24 hours of discovery of suspected contamination. Copy of analytical results shall be provided to the JBER AFCEC/CZOP Restoration once available.
- e. Remain within project excavation limits and not excavate potential contamination beyond contractor requirements as described in the scope of work.
- f. Wait for approval from AFCEC/CZOP Restoration representative before backfilling the excavation.

10.8. Contractor shall sign and submit the spill response procedures acknowledgement form to the JBER Spills and Tanks Program Manager.

END OF SECTION

SECTION 01600 MANAGEMENT OF HAZARDOUS AND SOLID WASTE - JBER

1. APPLICABLE REQUIREMENTS

1.1. Federal and SOA Regulations

Citation	Description
29 CFR 1910.1200	Hazard Communication Standard
40 CFR 239-299	Guidelines for Disposal of Solid Waste
40 CFR 243	Guidelines for the Storage and Collection of Residential, Commercial, and Institutional Waste
40 CFR 260-279	Hazardous Waste Regulations
49 CFR 171-178	DOT Hazardous Material Regulations
18 AAC 53	Siting of Hazardous Waste Management Facilities
18 AAC 60	Solid Waste Management
18 AAC 62	Hazardous Waste

1.2. USAF Instructions, Manuals, and Policy Directives

Air Force Instruction 32-7001 Environmental Management
Air Force Manual 32-7002 Environmental Compliance and Pollution Prevention

1.3. JBER Program Management Plans

JBER Integrated Solid Waste Management Plan (ISWMP)
JBER Hazardous Waste Management Plan (HWMP)

2. GENERAL WASTE MANAGEMENT: The Contractor shall comply with all local, state, and federal hazardous waste (HW) regulations. When two or more requirements conflict, the Contractor shall ensure compliance with federal HW regulations first.

- 2.1. Contractor shall comply with the requirements identified in the JBER HWMP, which describes the way federal HW regulations are implemented on JBER. Compliance with the JBER HWMP and the specifications herein do not waive the Contractor from responsibility to comply with applicable federal HW regulation.
- 2.2. The Contractor shall be liable to JBER for any fines, penalties, spill cleanup costs, and/or enforcement action that is a result of the contractor's performance or failure to perform as required.
- 2.3. Contractor shall consult the solid and hazardous waste regulations above for regulatory definitions related to terms used herein.

3. HAZARDOUS WASTE MANAGEMENT

- 3.1. General: Without regard for the quantity of HW being generated by contractor personnel, all HW generated on JBER must be managed in accordance with federal regulations applicable to large quantity generators of HW as outlined within 40 CFR Part 262 – Standards Applicable to Generators of Hazardous Waste.
- 3.2. The Contractor shall ensure all contract employees are trained in accordance with applicable federal HW regulations and that said training is documented.
 - 3.2.1. The Contractor shall provide Performance-Oriented Packaging certified container and is responsible for marking and labeling these containers. Contractor shall containerize all HW it generates on JBER.
 - 3.2.2. Contractor shall ensure all HW containers remain closed except when adding waste in accordance with 40 CFR 261.173 - Container Management.
 - 3.2.3. Contractor shall not transport HW generated off site onto JBER.
 - 3.2.4. Contractor shall not store HW generated on JBER within the central accumulation area (CAA), or the RCRA permitted treatment, storage, and disposal facility (TSDF).
- 3.3. Hazardous Waste Determination and Recordkeeping: The Contractor shall perform accurate hazardous waste determinations in accordance with 40 CFR 262.11 - Hazardous Waste Determination and Recordkeeping for waste generated by contract activities on JBER.
 - 3.3.1. Contractor shall perform hazardous waste determination at the point of waste generation and before any diluting, mixing, or other alteration of the waste occurs.
 - 3.3.2. The Contractor shall either:
 - a. Apply knowledge of the hazardous characteristic(s) of the waste considering the materials or processes used to generate the waste; or
 - b. Test a representative sample of the waste according to the applicable methods set forth in 40 CFR Part 261 Subpart C – Characteristics of Hazardous Waste at their own expense.
 - 3.3.3. Contractor shall provide Hazardous Waste Program Manager electronic copies of all HW determination documentation to include, but not limited to, hazardous waste profile sheets (HWPSs), SDSs, and/or laboratory analysis for review at least 10 calendar days prior to a waste shipment via the following organizational E-mail address: 673CES.CEIEC.EnvCom@us.af.mil. A sample profile sheet is provided in Appendix C.

- 3.4. The Contractor shall manage wastes as hazardous if they are unsure if a particular waste is a characteristic or a listed hazardous waste, until determined otherwise.
- 3.5. Accumulation and Recordkeeping: Contractor shall only accumulate hazardous waste in a satellite accumulation area (SAA) and in accordance with 40 CFR 262.15 - Satellite Accumulation Area Regulations for Large Quantity Generators.
 - 3.5.1. Contractor shall appoint a primary and alternate waste manager in accordance with the JBER HWMP. Contractor shall only appoint the Construction Superintendent or Site Safety and Health Officer as the primary and alternate waste managers.
 - 3.5.2. Contractor shall provide the Hazardous Waste Program Manager with an electronic copy of the form appointing the primary and alternate waste managers 10 calendar days prior to the start of work via the following organizational E-mail address: 673CES.CEIEC.Env.Com@us.af.mil. The Contractor is prohibited from obtaining an EPA permit for the storage of HW on JBER.
- 3.6. Shipment Documentation and Recordkeeping: All hazardous waste shipments transported off JBER must be accompanied by a completed Uniform Hazardous Waste Manifest (UHWM) as required by 40 CFR Part 262 Subpart B – Manifest Requirements Applicable to Small and Large Quantity Generators.
 - 3.6.1. The Contractor shall utilize JBER’s Generator ID Number, Generator’s Name and Mailing Address, and Generator’s Phone when completing the UHWM, which are provided here:
 - a. Generator’s ID Number: AK8570028649
 - b. Generator’s Name and Mailing Address: 673 CES/CEIEC 724 Quartermaster Road JBER, AK 99505
 - c. Generator’s Phone: (907) 384-3322.
 - d. The Generator’s Site Address will be the address of the construction project on JBER.
 - 3.6.2. Electronic copies of all unsigned UHWMs will be provided to the JBER Hazardous Waste Program Manager for review at least 10 calendar days prior to a waste shipment via the following organizational E-mail address: 673CES.CEIEC.EnvCom@us.af.mil.
 - 3.6.3. **Contractor shall weigh all HW in the presence of JBER Environmental Compliance personnel. Only authorized JBER Environmental Compliance personnel will sign UHWMs for the shipment of HW generated on JBER.**
 - 3.6.4. Authorized JBER Environmental Compliance personnel will be physically present during all hazardous waste shipments. The contractor is responsible for coordinating all hazardous waste shipments with the JBER Hazardous Waste Program Manager.

3.6.5. Contractor shall provide the necessary information necessary for the JBER Hazardous Waste Program Manager to complete the required reporting in accordance with 40 CFR § 262.42 - Exception Reporting. Exception reporting shall be required if one or more UHWMs signed by the owner or operator of the designated facility within 35 and/or 45 days of the date the waste was accepted by the initial transporter.

3.7. Transportation: The Contractor shall be responsible for transporting HW from JBER to a permitted treatment, storage, and disposal facility (TSDF) or recycling facility in accordance with 40 CFR Part 263 – Standards Applicable to Transporters of Hazardous Waste and 49 CFR Parts 171 through 180 – Hazardous Materials Regulations for waste generated by contract activities on JBER.

4. UNIVERSAL WASTE:

4.1. Without regard for the quantity of UW being handled by Contractor, all UW handled on JBER must be managed in accordance with federal regulations applicable to large quantity handlers of UW as outlined within 40 CFR Part 273 Subpart C – Standards for Large Quantity Handlers of Universal Waste. The contractor is required to ensure all contract employees are trained in accordance with applicable federal HW regulations and that said training is documented. The contractor is responsible for: providing UW containers; marking and labeling UW containers; and UW containerization for all UW that is generated by contractor activities on JBER. All UW containers must remain closed except when adding waste in accordance with 40 CFR § 273.33 - Waste management. At no time will the contractor transport UW onto JBER nor will the contractor be authorized to store UW that was generated on JBER within the CAA or the RCRA-permitted TSDF.

4.2. Shipment Documentation and Recordkeeping: All UW transported off JBER must be recorded in accordance with 40 CFR 273.39 - Tracking Universal Waste Shipments. The record may take the form of a log, invoice, manifest, bill of lading, movement document, or other shipping document. It is the contractor's responsibility to obtain the necessary records as well as ensure these records are filled out completely and correctly.

4.2.1. The Contractor shall utilize JBER's Generator ID Number, Generator's Name and Mailing Address, and Generator's Phone when completing the UHWM, which are provided here:

- a. Generator's ID Number: AK8570028649
- b. Generator's Name and Mailing Address: 673 CES/CEIEC 724 Quartermaster Road JBER, AK 99505
- c. Generator's Phone: (907) 384-3322.
- d. The Generator's Site Address will be the address of the construction project on JBER.

- 4.2.2. Electronic copies of all unsigned records will be provided to the JBER Hazardous Waste Program Manager for review at least (10) calendar days prior to a waste shipment via the following organizational E-mail address:
673CES.CEIEC.EnvCom@us.af.mil. **All UW will be weighed in the presence of JBER Environmental Compliance personnel. Only authorized JBER Environmental Compliance personnel will sign records for the shipment of UW generated on JBER. Authorized JBER Environmental Compliance personnel will be physically present during all UW shipments.** The contractor is responsible for coordinating all UW shipments with the JBER Hazardous Waste Program Manager.
- 4.3. Transportation: The contractor is responsible for transporting UW from JBER to a permitted TSDF or recycling facility in accordance with 40 CFR Part 273, Subpart D – Standards for Universal Waste Transporters and 49 CFR Parts 171 through 180 – Hazardous Materials Regulations for waste generated by contract activities on JBER.

5. NON-HAZARDOUS WASTE MANAGEMENT

- 5.1. The contractor is responsible for transporting non-hazardous waste from JBER to a permitted Subtitle D landfill, TSDF or recycling facility in accordance with all local, state, and federal regulations.
- 5.2. Waste Disposal and Recordkeeping: The contractor is responsible for arranging acceptance of waste into a Subtitle D landfill, TSDF, or recycling center in accordance with all local, state, and federal regulations. Furthermore, the contractor is responsible for all disposal costs associated with the disposal of waste generated by contractor activities on JBER. The contractor will meet all Land Disposal Restriction (LDR) requirements in accordance with 40 CFR Part 268 – Land Disposal Restrictions. Electronic copies of all unsigned LDR notifications will be provided to the JBER Hazardous Waste Program Manager for review at least (10) calendar days prior to a waste shipment via the following organizational E-mail address:
673CES.CEIEC.EnvCom@us.af.mil.
- 5.3. Contractor shall dispose of demolition waste in accordance with all applicable, federal, SOA, local, and USAF regulations, laws, and requirements.
- 5.4. Waste Diversion: DoD requires a 60% diversion rate for construction and demolition (C&D) projects in accordance with EO 13834 and DoDI 4715.23, Integrated Recycling and Solid Waste Management, requirements. Diversion includes reuse, donation, recycling, composting, and mulching. Waste diversion reports, including associated costs and weight tickets must be submitted monthly to the 673 CES/CEIE Solid Waste Program Manager for any materials disposed or diverted on or off base, including concrete and asphalt. Reports are due by the first business day of the following month or prior to project completion, whichever comes first. Scrap metal

must be recycled through a reputable scrap metal recycler off base, with weight tickets provided. Contractor is responsible for submitting waste diversion reports on a quarterly monthly basis in accordance with the specifications of this contract. Weight tickets provided by landfill shall be attached to the quarterly monthly report. In addition to quarterly monthly reports, the Contractor shall submit a C&D (Construction and Demolition) Waste Management Plan prior to commencing work. The reports and plan shall be submitted to the Contracting Officer and 673 CES/CEIE Solid Waste Program Manager. Templates for the plan and reports are provided in Appendix D.

5.5. Land Use Controls

- 5.5.1. The Contractor shall comply with the following land use controls and any site-specific land use controls provided at the time of review of work clearance requests (3 WG Form 3). These land use controls are also provided in the JBER Instruction (WGI) 32-7003 (16 Feb 2007) and Land Use Controls Management Plan (Jun 03).
- 5.5.2. The Contractor shall not use water from JBER's shallow aquifer for any purpose including, but not limited to, drinking, irrigation, fire control, dust control, or any other activity. It is understood portions of the shallow aquifer are contaminated and may pose a health risk.
- 5.5.3. The Contractor shall not drill through the shallow aquifer into the confined aquifer unless adequate engineering controls are used to prevent cross contamination from the shallow aquifer to the confined aquifer. All engineering controls and methods must be reviewed the JBER Environmental Flight.
- 5.5.4. The contractor shall not damage or interfere in any way with access to and operation of groundwater monitoring wells, remedial treatment systems and/or sampling efforts. 673 CES/CEANR and their contractors must have access, including but not limited to, vehicle access to existing monitoring wells for sampling and maintenance.
- 5.5.5. Contractor shall immediately notify the JBER Solid Waste Program Manager in writing if it fails to comply with these land use controls.

END OF SECTION

APPENDICES

APPENDIX A
JBER CONTRACTOR HAZARDOUS MATERIAL TRACKING FORM

The JBER Contractor Hazardous Materials Tracking Form is an MS Excel file that can be found by navigating to the JBER Environmental Compliance resource page and selecting “JBER Contractor HAZMAT Tracking Form” from the below website:

<https://www.jber.jb.mil/Services-Resources/Environmental/Compliance/>

APPENDIX B
SPILL REPORTING DOCUMENTS

JBER SPILL REPORTING PLACARD



SPILL REPORTING

WHEN REPORTING INCLUDE:

- Your name and contact information
- Time of spill or discovery
- Location of spill or discovery
- Type and quantity of substance spilled
- Actions taken (cleaned up, contained, evacuated area, etc.)
- Call 907-384-2478 with any questions

ALL REPORTABLE SPILLS CONTACT:

JBER.Spill.Report@us.af.mil

Spills of Petroleum, Oil, or Lubricants (POLs) less than 10 gallons:

- First, if capable, contain and clean up the contaminated area; if in doubt call 911
- Second, submit a report to the Environmental Element (JBER.Spill.Report@us.af.mil)
- Call the Hazardous Waste Center at 552-3435 to obtain containers for wastes and disposal

CALL 911 WHEN:

- **GREATER** than 10 gallons of POL is released to the environment or to floor drains
- **ANY** amount of hazardous waste/material is released
- **ANY** amount of POL or hazardous waste/material is released to waters of the U.S. (lakes, rivers, storm drains, etc.)
- The spill presents a fire, safety, or health risk
- The spill cannot be contained or spill response equipment is not available

SITE SPECIFIC SPILL PLAN TEMPLATE

DIAL 911

IN CASE OF EMERGENCY AND/OR SPILLS

REPORT THE FOLLOWING SPILL INFORMATION

- Name and telephone number
- Exact location of the spill or emergency
- Time incident occurred and actions take (evacuation, containment, etc.)
- Type and description of emergency
- Substance spilled, national/ material stock number or other identifying information
- Estimated amount of material spilled and whether it is on fire
- Number of injured personnel and nature of injuries
- Indicate if the spilled substance has entered or is within the vicinity of a floor drain, sewer, water source, or land.
- Release rate of spill and distance traveled
- Any other relevant information

ACTIONS TO TAKE IN CASE OF A SPILL

- Alert personnel in the immediate spill area and initiate evacuation if necessary (upwind 2,000 feet if substance is unknown)
- Move to a safe area and account for all personnel
- Determine cause of and stop source of spill, if trained and if it is safe to do so
- Restrict all sources of ignition and cordon off spill area
- Notify supervisor and designated, primary or alternate hazardous waste manager
- Direct Emergency Spill Response Team to spill upon their arrival and provide a copy of the material SDS

SPECIAL PRECAUTIONARY MEASURES

- Avoid contact with liquid spills
- Evacuate entire building if fire, explosion, or a health hazard exists
- Inside: Block floor drain(s) immediately with sorbent pads
- Outside: Contain/ cleanup with emergency spill kit

CONTAINMENT, CLEANUP AND DISPOSAL

- Coordination with Contractor designated Hazardous Waste Manager is mandatory
- Dispose of all spill cleanup materials saturated with hazardous materials IAW with federal, state, local, and USAF laws and regulations.

DESIGNATED HAZARDOUSE WASTE MANAGERS

Primary: _____ Phone #: _____
Alternate: _____ Phone #: _____

APPENDIX C
HAZARDOUS WASTE PROFILE TEMPLATE

SAMPLE HAZARDOUS WASTE PROFILE INFORMATION TEMPLATE

Description	Source	Accumulation Method & Storage Location	Pick-Up Criteria	Monthly Accumulation Rate (gallons)
EXAMPLE Used engine oil	Forklift oil change	55- gallon drum, SAA	Container 90% full	10

APPENDIX D
SOLID AND HAZARDOUS WASTE FORMS

QUARTERLY C&D DIVERSION REPORT

Type of Waste	Tons of Waste Generated		
	Landfill	Diverted	Total
Land Clearing Debris			
Dirt/ Soil			
Asphalt			
Concrete and Masonry			
Gypsum Wall Board			
Scrap Metal (Ferrous)			
Scrap Metal (Non-Ferrous)			
Wood (Treated)			
Wood (Untreated)			
Cardboard			
Commingled Recyclables			

Destination and Transport of Materials Sent to Landfill

Type of Waste	Facility Name	Transporter Name
Land Clearing Debris		
Dirt/ Soil		
Asphalt		
Concrete and Masonry		
Gypsum Wall Board		
Scrap Metal (Ferrous)		
Scrap Metal (Non-Ferrous)		
Wood (Treated)		
Wood (Untreated)		
Cardboard		
Commingled Recyclables		

Destination and Transport of Materials Diverted from Landfill

Type of Waste	Facility Name	Transporter Name
Land Clearing Debris		
Dirt/ Soil		
Asphalt		
Concrete and Masonry		
Gypsum Wall Board		
Scrap Metal (Ferrous)		
Scrap Metal (Non-Ferrous)		
Wood (Treated)		
Wood (Untreated)		
Cardboard		
Commingled Recyclables		

CONTRACTOR WASTE MANAGEMENT PLAN TEMPLATE

Project Title & Contractor Number:	
Projected Start and End Dates:	
Contractor Name:	

The Department of Defense requires all installations to divert at least 60% (by weight) of construction and demolition (C&D) wastes from disposal in a landfill or incineration. This Construction Waste Management Plan (CWMP) covers non-hazardous solid waste generated from construction and demolition activities and identifies the actions [INSERT CONTRACTOR NAME] shall implement to meet or exceed this C&D waste diversion minimum requirement of 60%.

INDIVIDUAL RESPONSIBLE FOR WASTE MANAGEMENT

[INSERT CONTRACTOR NAME AND/OR TITLE] will be responsible for waste prevention and management on this project. [INSERT NAME AND/OR TITLE] may be contacted at [INSERT PHONE AND/OR EMAIL].

PROJECT SPECIFIC DIVERSION REQUIREMENT

This project requires a minimum waste diversion of 60% by weight. The waste diversion goal for this project is: XX% [INSERT “60%” OR DIVERSION GOAL IF HIGHER THAN 60%].

ESTIMATE OF WASTE TYPES AND QUANTITIES

Waste Type	Estimated Quantity (tons)
Asphalt	
Concrete and Masonry	
Scrap Metal (Ferrous)	
Scrap Metal (Non-Ferrous)	
Wood (Treated)	
Wood (Untreated)	
Gypsum Wall Board	
Glass	
Paper (Office and Mixed Paperboard)	
Paper (Newspaper)	
Cardboard	
Plastic	
Land Clearing Debris	
Other Construction & Demolition Debris/ Mixed Waste	

SOLID WASTE MANAGEMENT ACTIONS

[DESCRIBE CONTRACTOR ACTIONS TO REDUCE SOLID WASTE GENERATION]

e.g., “Contractor will carefully calculate material quantities and sizes to reduce possibility of overages during material procurement. Contractor will give preference during material procurement to products with Minimal packaging and products that are bio-based and/or recyclable. Contractor will encourage work crews to utilize re-usable beverage containers and encourage a ‘pack in/pack out’ program for worker generated waste including personal use items.”

[DESCRIBE CONTRACTOR ACTIONS TO INCREASE DIVERSION. DESCRIBE EQUIPMENT AND CONTAINERS.]

e.g., “Contractor will implement source-segregated diversion for the following materials: asphalt, metal, wood, and cardboard. The contractor will provide separate containers for each material listed above; containers will be clearly labeled to discourage contamination. Waste that cannot be diverted will be placed a single 8-CY top load dumpster clearly labeled “waste.” Containers will be hauled by XXX (insert hauler) to XXX (insert destinations, e.g., Alaska Metals, Central Recycling Services). OR Contractor will implement co-mingled diversion for all materials generated on-site. The contractor will provide XX (insert quantity) containers for mixed debris. Containers will be hauled by XXX (insert hauler) to XXX (insert destinations, e.g., Central Recycling Services).”

COMMUNICATION

[BRIEFLY DESCRIBE CONTRACTOR COMMUNICATION PLAN FOR WASTE MANAGEMENT]

e.g., “The contractor will discuss solid waste management issues at morning safety meetings at least weekly. Contractor will clearly label collection containers.”

DISPOSAL AND DIVERSION RESOURCES

[BRIEFLY DESCRIBE CONTRACTOR COMMUNICATION PLAN FOR WASTE MANAGEMENT]

e.g., “The contractor will discuss solid waste management issues at morning safety meetings at least weekly. Contractor will clearly label collection containers.”

DISPOSAL AND DIVERSION RESOURCES:

[DESCRIBE THE COMPANIES, SUBCONTRACTORS, AND/OR PROGRAMS USED]

Material	Hauler	Disposal/ Diversion Company	Address	Estimated Cost Savings (\$)

JBER WASTE DISPOSAL WORKSHEET

Project Title & Contractor Number:	
Projected Start and End Dates:	

JBER/USAF Project Manager Name:	
Phone Number:	

Contractor Project Engineer Name:	
Contract Company Name:	
Phone Number:	

PART 1 (To be Completed by JBER/USAF Project Manager)

ATTACH WORK REQUEST/TASK FORM FOR PROJECT

The proponent must submit an electronic copy of the AF Form 332, Work Task, or other Project Documentation from 673 CES/CEN along with the “Waste Disposal / Borrow Pit Worksheet”

REQUIRED SURVEYS

Hazardous Material	Survey Completed (Yes/No)	If Survey Not Required, Indicate Why
Lead-Based Paint		
Asbestos		
PCBs		

Attach copy of survey results for each hazardous material.

WASTES TO BE GENERATED

Waste Type	Quantity/ Volume	Units of Measure
VEGETATION AND WOODY DEBRIS		
Trees		
Trees & Brush / Hydro-axed vegetation & soil mixture		
SOIL		
Clean Soil		Cubic yards
Contaminated Soil		Cubic yards
Types of Contaminants (POLs, VOCs, etc.)		
NON-HAZARDOUS		
Concrete		Cubic yards
Asphalt		
Chunk		Cubic yards
Milled		Cubic yards

Waste Type	Quantity/ Volume	Units of Measure
Asbestos		Cubic Yards
LEAD-BASED PAINT DEBRIS		
XRF Results		
TCLP Results		
HAZARDOUS WASTES BY TYPE		
PCB Light Ballasts		
Non-PCB Light Ballasts		
Exit Light Ballasts		
Non-incandescent lights		
Transformers		
Transformer oil		
Mercury Thermostats		
Smoke Detectors		
Oily Rags		
Solvent Saturated Rags		
Batteries		
Used Solvents		
Asbestos Removal Solvents		
Waste Paint		
Capacitors and Switching Gear		
Other		
UNIVERSAL WASTE		
Aerosol Cans		
Lamps		
Batteries		

CONSTRUCTION/DEMOLITION WASTES

Type	Quantity/ Volume and Unit of Measure	
	Salvaged	Recycled
Land Clearing Debris		
Dirt/ Soil		
Asphalt		
Concrete and Masonry		
Gypsum Wall Board		
Scrap Metal (Ferrous)		
Scrap Metal (Non-Ferrous)		
Wood (Treated)		
Wood (Untreated)		
Cardboard		
Commingled Recyclables		

BORROW PITS

Borrow Material	Volume (cubic yards)
Gravel Volume	
Topsoil	

Note: Bailed gravel stored adjacent to an active gravel pit shall become property of the Government on 31 December of year it is bailed. To retain rights to the gravel the following year the Contractor shall provide written coordination prior to 31 December informing JBER Environmental of their gravel needs.

PART 2 (To be Completed by JBER Solid and Hazardous Waste Program Managers)

INSTRUCTIONS FOR THE DISPOSAL OF WASTES

1. Tree Protection, Transplanting, Replacement and Methods:
2. Wastes to be disposed on JBER:
3. Wastes to be disposed of off JBER:

Notes:

*A. All construction wastes (including hazardous wastes) not listed for on base disposal shall be disposed of off JBER by the contractor in an approved landfill in accordance with applicable state and federal regulations. **All hazardous waste will be disposed at cost by the project, in accordance with regulations for large quantity generators and local JBER procedures.***

B. Prior to project completion the proponent shall provide CEIEC written sampling result(s) and copy of the disposal tare for debris, e.g., lead painted materials disposed at the Municipality of Anchorage Landfill.

BORROW PITS

Borrow Pits to be used:

Gravel:

Topsoil:

Note: Pit development, rehabilitation, and/or expansion work required for the privilege of using borrow pit(s): Note: Notify the JBER Natural Resources when pit development is about to begin.

REVIEWERS INITIALS:

673 CES/CEIEC		773 CES/CEO		773 CES/CEOH	
773 CES/CEOHSP		673 AMDS/SGPB			

This Coordination Review becomes invalid if the project is not awarded within one year from the date of issue

JBER CONCRETE AND CONSTRUCTION DEBRIS (C&D) DISPOSAL CHECKLIST

Project Title & Contractor Number:	
Contractor Point of Contact:	
Contractor Phone Number:	
Date of Placement	

Amount of Waste Disposed Of:	Cubic yards
-------------------------------------	--------------------

DISPOSAL LOCATION:

	Municipality of Anchorage Landfill
	Other (Specify Below):

Is there paint on the waste material?	Yes		No	
If yes, has paint been tested for lead-based paint?	Yes		No	
If yes and it is lead-based paint has TCLP been done?	Yes		No	
Notes:				

Is there asbestos containing material in the waste?	Yes		No	
Notes:				

If yes, the asbestos containing material must be separated (call JBER Insulation Shop, JBER Environmental, OR Dispose of the load at another facility permitted by the State of Alaska to receive asbestos containing material waste.

Is there petroleum contamination / petroleum-based material in the waste?	Yes		No	
If yes, does it have "free liquid" that easily falls of the waste material	Yes		No	
If yes, this waste material CANNOT be placed in the Quarry Hill C&D Landfill.				
If the waste material is just stained, it may be placed in the Quarry Hill C&D Landfill.				
Notes:				

Email/ submit hard copy of this report by Friday each week to the Qualified Recycling Program Manager at 673CES.CEIEC.EnvCom@us.af.mil

673 CES/CEIE Environmental Flight Contact List - Updated 13 June 2022**COMPLIANCE SECTION**

James Lang	Environmental Compliance Chief	384-6224	james.lang.6@us.af.mil
Rosanna Dickens	Tanks, POL, & Spills Response	384-2478	rosanna.dickens@us.af.mil
Richard Hackenberg	Universal Waste & Inspections	384-7854	richard.hackenberg@us.af.mil
Hannah Myers	EMS, UECs, Landfills, & Toxics	384-2460	hannah.myers.2@us.af.mil
Kimberly Pergola	Solid Waste & Qualified Recycling Program (Hazardous Materials Alternate)	384-3419	kimberly.pergola.1@us.af.mil
Ben Kopinski	Hazardous Materials (Hazardous Waste Alternate)	384-2445	benjamin.kopinski@us.af.mil
Amy Kearns	Air Quality and Compliance Review Coordinator	384-1361	amy.kearns.1@us.af.mil
Jessica Weikert	Water Quality	384-6784	jessica.weikert@us.af.mil
Alex Cierlitsky	Hazardous Waste	384-3322	matthew.cierlitsky@us.af.mil
Cate Currier	Palace Acquire Intern	384-6785	catherine.currier@us.af.mil
Samantha Fisher	Environmental Field Inspector	384-3466	samantha.fisher.6@us.af.mil

CONSERVATION SECTION

Kylene Lang	Conservation Chief	384-2440	kylene.lang.1@us.af.mil
Matthew Beattie	Environmental Impact Assessment Process (NEPA)	384-0250	matthew.beattie@us.af.mil
2LT Demonte Meeks	CEI Deputy Flight Chief/ NEPA	384-2444	demonte.meeks@us.af.mil
Colette Brandt	Fisheries, Ecology & Wildlife	384-3380	colette.brandt@us.af.mil
Chris Garner	Endangered Species Act & Marine Mammals	384-2479	christopher.garner.9@us.af.mil
Margan Grover	Cultural Resources	384-3467	margan.grover@us.af.mil
Cayley Elsik	Forestry, Hunting & Bats	384-3212	cayley.elsik@us.af.mil
Dan Jenkins	Wildlife Conflict Support	384-8609	daniel.jenkins.15.ctr@us.af.mil
Charlene Johnson	NEPA	384-3913	charlene.johnson.3@us.af.mil
Cassandra Schoofs	Avian Species & INRMP	384-0276	cassandra.schoofs.1@us.af.mil

CONSERVATION LAW ENFORCEMENT OFFICERS (CLEOs)

Mark Sledge	552-8609	mark.sledge@us.af.mil
James Wendland	552-9453	james.wendland.1@us.af.mil
Guy Deese	384-1128	guy.deese.1@us.af.mil