City Creek Daylighting at Folsom Trail Project

DRAFT CONTAMINATED SOIL MANAGEMENT CONSTRUCTION SPECIFICATIONS

PART 1 - GENERAL

1.1 PURPOSE

A. Provide guidance and procedures to appropriately characterize, manage and dispose of any soils encountered that contain arsenic, volatile organic compounds (VOCs), and polycyclic aromatic hydrocarbons concentrations above the recreational land use screening levels that may be found during site construction activities within the project area as identified on the plans.

B. Meet the requirements of the Utah Department of Environmental Quality (DEQ) and the Salt Lake County Department of Health contaminated soil ordinance.

1.2 REFERENCES

A. Soil Management Plan (SMP):

1. BIO-WEST, Inc. 2023. Soil Management Plan for City Creek Daylighting at Folsom Trail Project, Salt Lake City, Utah 84114, February 22, 2023.

1.3 QUALITY ASSURANCE

A. Procedures associated with any soil characterization activities will be implemented to produce data that are accurate, credible, and representative of conditions at the site.

1. Careful record keeping and documentation;
2. Use of appropriate equipment and decontamination procedures;
3. Documentation of Chain-of-Custody;
4. The samples will be analyzed at a National Environmental Laboratory Accreditation Program (NELAP) approved laboratory that will follow QA/QC procedures consistent with United States Environmental Protection Agency (USEPA) standards.

B. Quality control for the sampling program will include using standardized sample collection and handling methods, documenting pertinent field information, and keeping chain-of-custody records as prescribed.

PART 2 - REQUIREMENTS

2.1 PRE-REMOVAL FIELD PREPARATION

A. Field preparation activities:

1. Procurement of field equipment.
2. Laboratory coordination.
3. Obtaining construction permits.
4. Coordination meeting attended by field personnel, contractors, and management staff.

B. Prior to commencing field work:

1. Blue Stakes of Utah Utility Notification Center (Blue Stakes) will be contacted to assess the presence and location of buried utilities.

2.2 SITE HEALTH AND SAFETY

A. Under the Code of Federal Regulations (CFR) 29 CFR 1910.120, a Site-specific health

and safety plan (HASP) is required for all work performed at a project site where there is a known or possible presence of regulated substances or hazardous materials.

1. The construction contractor will prepare the HASP.
2. Daily safety tailgate meetings will be performed to review safety practices.

2.3 ENGINEERING CONTROLS AND PERMITS

A. Engineering controls will be established prior to the initiation of construction activities to reduce the potential for exposure.
   1. Spillage of impacted soil during any loading process will be placed back in the excavation area and removed during subsequent truck loads as necessary.
   2. Loose soil will be removed from exterior surfaces of the trucks as necessary after loading to avoid tracking the material out onto public roads.
   3. All loads will be covered to prevent the generation of fugitive dust during hauling operations.

B. Required construction permits will be obtained prior to initiating construction activities.

2.4 STORM WATER MANAGEMENT

A. The Utah Division of Water Quality (DWQ) and Salt Lake City require a storm water pollution prevention plan (SWPPP) be prepared and implemented for construction.

B. Storm water controls may include:
   1. Silt fences.
   2. Straw bales and wattles

C. Required SWPPP compliance will be installed to mitigate the mobilization of sediment due to a storm event. Controls will be maintained and remain in place throughout the construction activities.

2.5 FUGITIVE DUST CONTROL

A. Utah Division of Air Quality (UDAQ) requires construction in Salt Lake County that are 1/4-acre or greater in size to submit a Fugitive Dust Control Plan (FDCP).
   1. Engineering controls, such as water application during excavation and loading.

B. The fugitive dust control plan will include efforts to prevent tracking mud and dirt onto the existing paved haul roads.
   1. If sediment is tracked onto the paved roadways, a street sweeper will be used to clean the roadways.

2.6 SMP COMPLIANCE AND COMMUNICATION

A. Comply with the requirements set forth in the SMP and communicate with environmental compliance monitoring staff.
   1. Allow effective observation and monitoring of excavated soil, including aiding in the collection of soil samples.
   2. Environmental staff will make reasonable efforts to work within the Contractor's schedule and not unnecessarily slow construction.

PART 3 - EXECUTION

3.1 CLEANUP STANDARDS AND REMEDIATION GOALS

A. Recreational use screening levels for the site have been established as listed in Table 1 of the SMP.
   1. Previously identified and any unidentified soils encountered during construction activities that exceed the recreational use screening levels will be removed.

2. Any impacted soils will be disposed of by the Contractor at a permitted landfill following laboratory characterization of the soil.

3.2 EXCAVATION SCREENING

A. Field activities will be conducted in accordance with the standard operating procedures (SOPs).
   1. It is anticipated that the project will be constructed using small excavation equipment.

B. All soils excavated within the established contamination areas, as noted in the SMP report, will be considered contaminated and handled according to the procedures outlined in the SMP.

C. Any soils outside the established contamination areas that exhibits staining and/or odors will be evaluated for possible contamination above the recreational screening levels according to the procedures outlined in the SMP.

3.3 IMPACTED SOIL EXCAVATION

A. Any soil excavated within the established contamination areas or any soils outside of the established contamination areas that show signs of contamination (e.g., staining and/or odor) will be stockpiled in a segregated area.

3.4 SOIL STOCKPILLING AND STOCKPILE SAMPLING

A. Stockpiled soils will be placed in a secure area of the project site and as far away as possible from any structures adjacent to the project site pending receipt of laboratory analytical results or disposal approval.

B. Stockpiled soil will be:
   1. Placed on polyethylene sheeting with a minimum thickness of 6-millimeters. The soil stockpiles must also be completely covered and securely anchored with similar polyethylene sheeting. Any seams within the polyethylene sheeting must overlap a minimum of 24-inches and be secured with duct tape.
   2. Silt fencing shall be placed around all stockpiled soil to prevent soil or stormwater runoff to the surrounding areas.
   3. Once covered and secured, the soil stockpiles should remain undisturbed and should not be reshaped or relocated as much as possible until the soil is removed from the project site.
   4. Inspections of the stockpiles should be performed daily to ensure the stockpiles are secure.

C. All stockpiled soils will be sampled to determine that disposal requirements are satisfied to transport the material to a permitted landfill.

3.5 SOIL DISPOSAL

A. Soil that does not originate from the established contamination areas or does not show any signs of contamination (e.g., staining and/or odor) are considered to be suitable for reuse on-site or off-site disposal.

B. Stockpiled soil will be transported off-site to a permitted landfill by the contractor once the soil has been characterized and all landfill permitting requirements have been completed.

3.6 REPORTING

A. The environmental compliance staff will prepare a final report documenting the soil

removal, hauling, and disposal of any contaminated soil from the project site. All data generated during this investigation will be documented in a final report.

1. Description of field activities.
2. Site maps.
3. Analytical data tables.
4. Investigation findings and conclusions.
5. Chain of custody forms.
6. Laboratory analytical reports.
7. Contaminated soil disposal manifests.

END OF SECTION