Placement of New Concrete Pad for Repairing Domestic Water Lines

South of 254-19

H Canyon/OF–H

Minor

O&M Activity Plan 20-011

EEC No. CBU-H-2020-0023

Work Order No. 1782060

Prepared by: _____ 8/11/2020
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O&M Plan 20-011 Site
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1. INTRODUCTION

Construction will remove the reinforced concrete pad; and excavate the surrounding soil to expose and repair a domestic water line. This is a minor intrusive activity because excavating to uncover a small section of line will disturb less than 10% of the surface area in the RCRA/CERCLA Unit. A new concrete slab will be installed after identification and repair of the leaking domestic water line.

Water leakage was reported from the underground domestic water (DW) line on the south side of 254-19H Diesel Generator (DG) building. The DW water line routes from a 10-inch domestic water main into smaller pipelines that feed the safety shower/eye wash stations inside 254-19H DG building. Construction personnel will locate, repair and/or replace the damaged portion(s) of the DW line.

AREA DESCRIPTION AND CONDITIONS

The area in which this activity will be conducted is on the south side of 254-19H DG building. This area is east of the 211-H Cold Chemical Storage Area. Soil samples were taken in the late 1998-99 timeframe prior to construction of the building. Radiological and non-radiological contaminants were not detected in samples taken from past excavations of and/or in this area.

2. O & M ACTIVITY

A. O&M Activity Description

The scope of this activity is to replace or repair a damaged domestic water line that feeds the safety shower and eyewash station at 254-19H DG building. Construction Services will remove the concrete and hand dig to ensure no underground interferences are encountered while investigating the damaged water line. Work will be performed as stated in Asset Suite Work Order # 01782060.

Soil removed during the excavation will be returned to the area. Therefore, no soil disposal will occur.

B. O&M Activity Sampling and Monitoring for Health and Safety

The identified units are in the Federal Facility Agreement (FFA) because of possible radiological contamination, due to past releases from H-Area operations.

Radiological surveys will be required at the excavation site. If radiological contamination is encountered, Radiological Protection (RP) will determine if protective equipment and personnel access restrictions are required prior to continuing work activities.

Worker health and safety will be directed and controlled as required in the Assisted Hazard Analysis (AHA).

C. Health and Safety Plan

The health and safety concerns involve worker exposure to potential radiological contamination. RP shall provide for radiological monitoring during the excavation activities.

The work will be completed in accordance with the requirements stated in the AHA. The safety requirements and personal protective equipment described in the AHA are appropriate for the potential hazards related to the RCRA/CERCLA units.

D. Characterization and Sampling Plan for the Affected Area Within the Unit

RP will have to probe the soil during excavation activities. RP and/or Construction will have to prepare a sampling plan and conduct sampling of the soil excavated during this activity if the excavation depth exceeds 6 inches. If unexpected contamination is found, the SRNS On-Scene Coordinator (OSC) may request additional work scope and sampling from soil disturbed by the activity. Material removed as part of the excavation will be managed per Generation Certification Official (GCO), Environmental Compliance Authority (ECA), and Radiation Control Official (GCO) direction.

E. Contaminated Materials Management and/or Disposal

Based on previous excavations in the vicinity, radiological contamination is not expected in the excavated soil. Any waste generated will be disposed in accordance with guidance from RP, the Generation Certification Official (GCO), and the ECA.

F. Environmental Plans and Permit Modification Requests

This activity is not expected to involve other environmental plans, permits, required maintenance, inspections, or erosion control practices.

3. CONTINGENCY PLAN

During implementation of this activity, if conditions change at any time, such that the activity is no longer considered "minor" (as defined in Reference 2) or any other unanticipated event occurs, the Project Manager, the Project Construction Manager, or the ECA shall:

- Immediately notify the SRNS-OSC. If necessary, the SRNS-OSC will notify the DOE-OSC.
- Stop work, secure the area, contain and stabilize the area, and determine any necessary change to the activity plan.
- Notify the SRNS-OSC of the findings and proposed path forward. The SRNS-OSC will communicate the information to the DOE-OSC and obtain concurrence on the path forward.

4. DOCUMENTATION & REPORTING

H Canyon will transmit the following documentation to the SRNS-OSC within twenty days of the completion of the activity:

- The signed O&M plan
- Any sampling and characterization data collected

The following information is not expected to be generated by this activity, but if generated will be forwarded to the SRNS-OSC:

- The quantity (if any) of any contaminated materials generated, and
- The disposal location of any contaminated material, if generated.

Photos

Photo 1. Building 254-19H Southside

Photo 2. Building 254-19H Southeast Side

Photo 3. Building 254-19H Southside (Looking East)

Photo 4. Building 254-19H Southside (Looking West)

References

1. SRNS-OS-94-42, Federal Facility Agreement for the Savannah River Site, Administrative Document Number 89-05-FF, effective August 16, 1993, Revision 0 of Appendix C for Fiscal Year 2017.

2. SRNS-RP-96-45, *Savannah River Site Plan for Performing Maintenance in Federal Facility Agreement Area (O&M) Plan (U)*, December 15, 1996.

Building 254-19H

Southside



Building 254-19H

Southeast Side



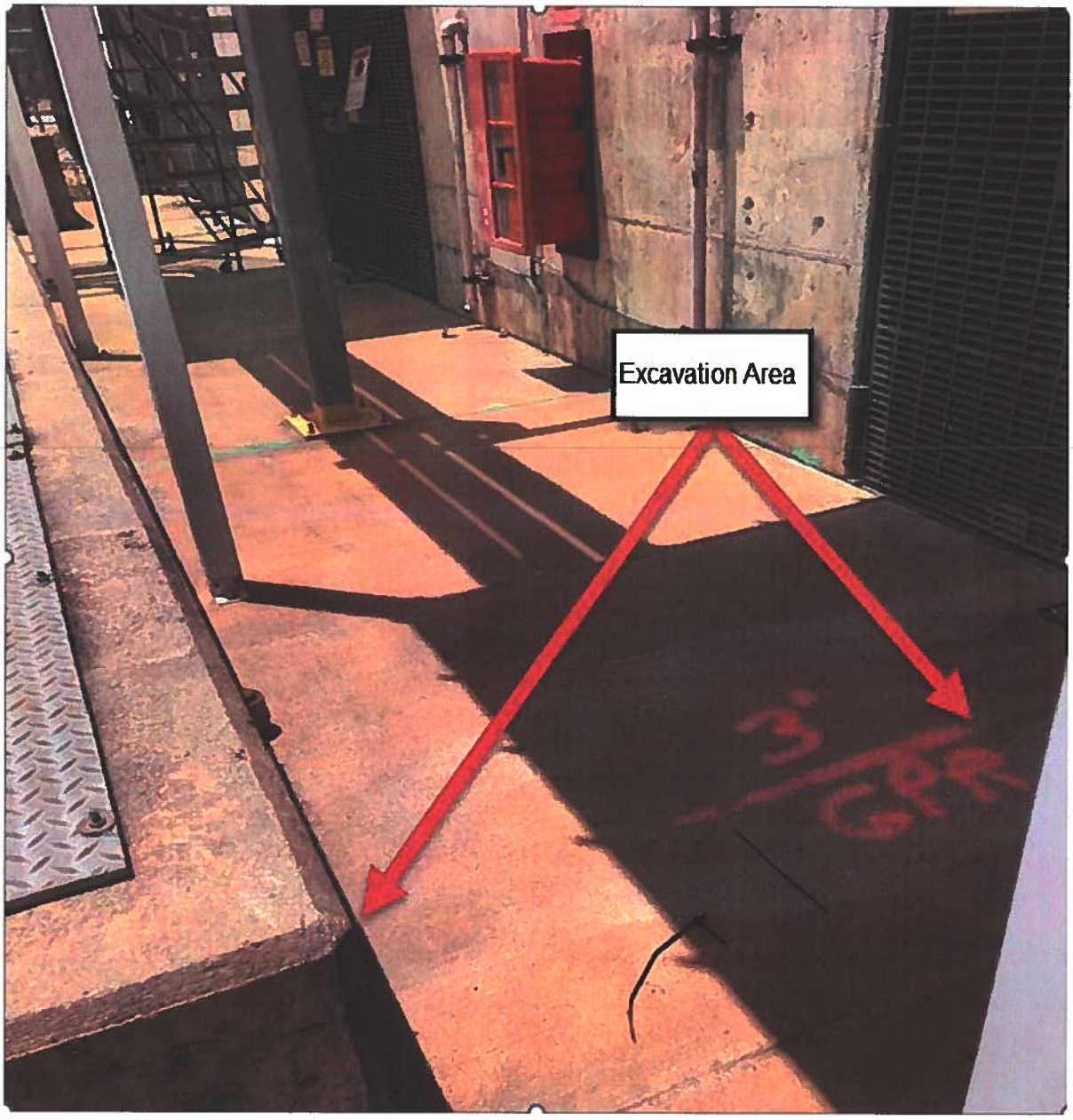
Building 254-19H Southside

Looking East



254-19H Southside

Looking West



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