Minor
OPERATION AND MAINTENANCE
Activity Plan

Installation of New 221-H Canyon Truckwell Permanent Power – Site Indices 344, 391, 549 and 591

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1. INTRODUCTION

This Operations and Maintenance (O&M) Plan is for the excavations to install a new power pad and power pole for the 221-H Canyon Truckwell. The work will remove asphalt and soil to allow the new installations while protecting human health and the environment and minimizing the impact to long term characterization and remediation efforts.

This activity is within Site Index (SI) 549 (General Separations Area Eastern Groundwater Operable Unit, No Building Number (NBN)) of the Federal Facility Agreement (FFA, Reference 1). It is also within 200 feet of SI 344 (Sandblast Area CMH-001, NBN), SI 391 (Spill on 02/01/83 of 50 Gallons of Oil - Rad, NBN) and SI 591 (H-Area Process Sewer Lines as Abandoned, NBN). SIs are also called RCRA/CERCLA Units.

This plan is characterized as "minor intrusive activity" based on the soil excavation meeting the definition of both "minor" and "intrusive" as defined in Reference 2.

2. AREA DESCRIPTION AND CONDITIONS

The area in which the activity will be conducted is in the southeastern portion of the drainage basin of Storm Water Outfall H-04B. The location of the excavations is shown as green dots in the drawing in Attachment 1 which also shows the nearby SIs as red areas. The following large structures are located in this portion of the drainage basin:

- 221-H Canyon Building
- 704-H Administrative Building
- 221-21H and 224-H B-Line Storage Buildings
- 221-24H and 704-182H Trailers

For a discussion of the SIs, see "Revision 0 for Appendix C for Fiscal Year 2019" of Reference 1. Due to size, SI 549 is located in the drainage basins of both Upper Three Runs Creek and Four Mile Branch. SIs 344, 391, and 591 are located in the drainage basin of Four Mile Branch. The location of the work is shown as green dots in the southwest portion of the H-04B Outfall Map provided in Attachment 2 and on the aerial image in Attachment 3. These SIs are in the FFA because of possible radiological or chemical contamination from past releases from H-Area operations. To date, there has been no remediation of these units; the current status of the units is inactive. Per Appendix E of Reference 1, Remedial Actions are scheduled to begin in April 2043 for SIs 344, 391, and 591 and May 2047 for SI 549. A photo of the actual location is provided in Attachment 4.

3. O & M ACTIVITY

A. O&M Activity Description

The scope of the activity is to excavate soil and asphalt to allow installation of a new power pad and power pole for the 221-H Canyon Truckwell. The power pad excavation is expected to be less than 2 feet in depth. The power pole auger will be to a depth of less than 7 feet and the grounding rod(s) will be driven approximately 3 feet away to 20 feet deep. Subcontractors will perform the work in accordance with the provisions of Asset Suite Work Order #01725426-01 (Reference 3) and AHA #HCA-24050 Rev. 0 (Reference 4). The activity occurs within a general SI and adjacent to several identified SIs. Work is expected to take no more than three months.

ALL EXCAVATED/AUGERED SOILS WILL BE REMOVED AND SENT TO THREE RIVERS LANDFILL FOR DISPOSAL. IF RADIOLOGICAL CONTAMINATION IS IDENTIFIED DURING THE SOIL SAMPLING, THE SOIL WILL BE SHIPPED TO THE SOLID WASTE MANAGEMENT FACILITY AS LOW LEVEL WASTE.

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

The identified units are in the FFA because of possible radiological contamination from 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.

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

A sampling plan for work in this area has been prepared, and RP will conduct sampling of the soil excavated during this activity. If unexpected contamination is found, the SRNS On-Scene Coordinator (OSC) may request additional work scope and sampling from soil disturbed by the activity.

E. Contaminated Materials Management and/or Disposal

Based on previous excavations in the vicinity, radiological contamination is not expected in the excavated soil. All waste 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 and inspections, or erosion control practices.

4. CONTINGENCY PLAN

During implementation of the activity, if the 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.

5. 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 radioactively contaminated materials generated, and
- The disposal location of any radioactively contaminated material, if generated.

Attachments

Attachment 1. Drawings Showing Approximate Location of Excavations (Green Dots) and Nearby Site Indices (Red Areas)
Attachment 2. H-04B Outfall Drainage Map with Approximate Location of Excavations shown as Green Dot
Attachment 3. Aerial Image Showing Location of Excavations (Green Dots)
Attachment 4. Photo Showing Physical Location

References

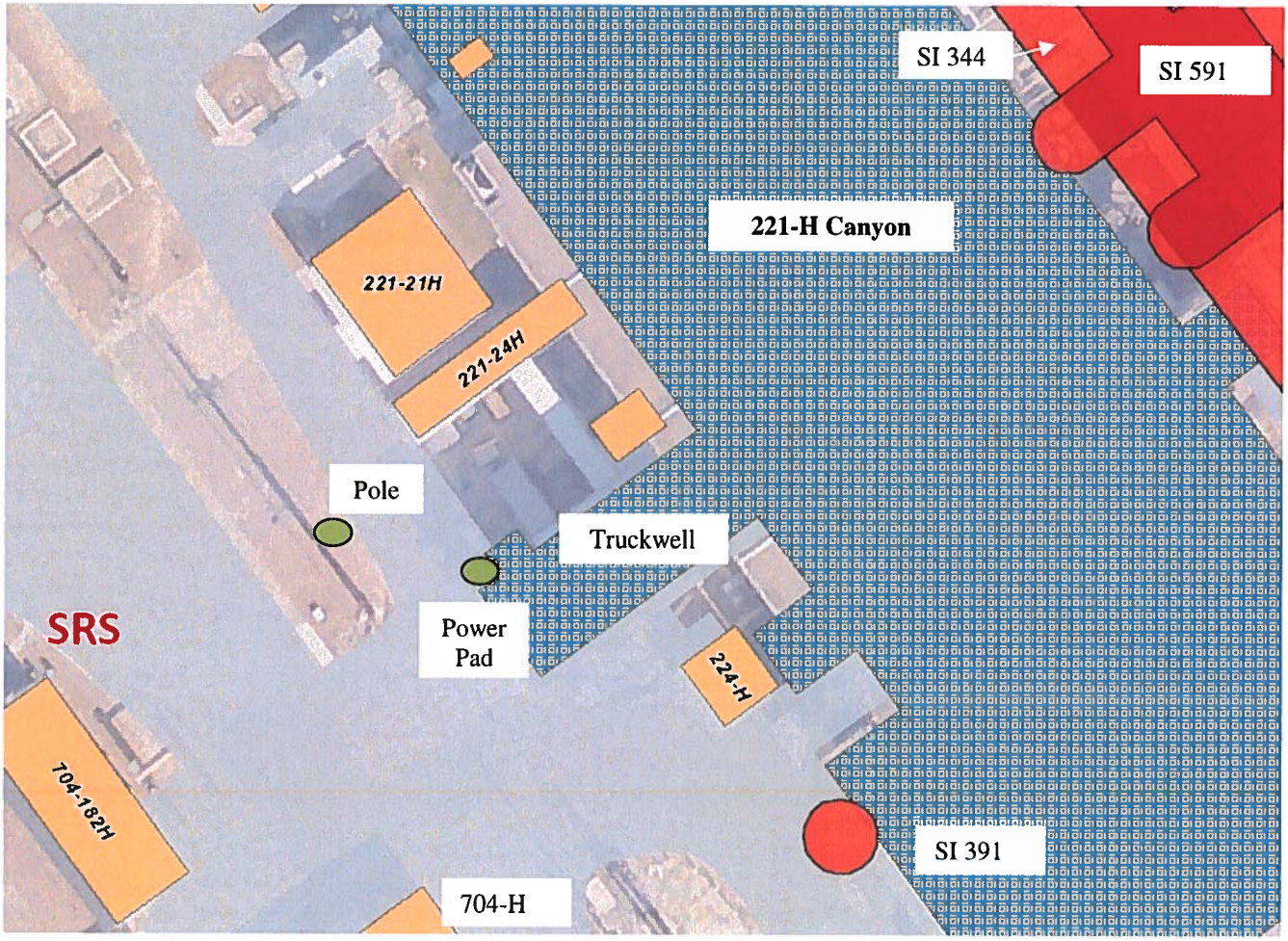
1. SRNS-OS-94-42, Federal Facility Agreement for the Savannah River Site, Administrative Document Number 89-05-FF, effective August 16, 1993, Revision 0 of Appendix C and Revision 0 of Appendix E for Fiscal Year 2019.

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

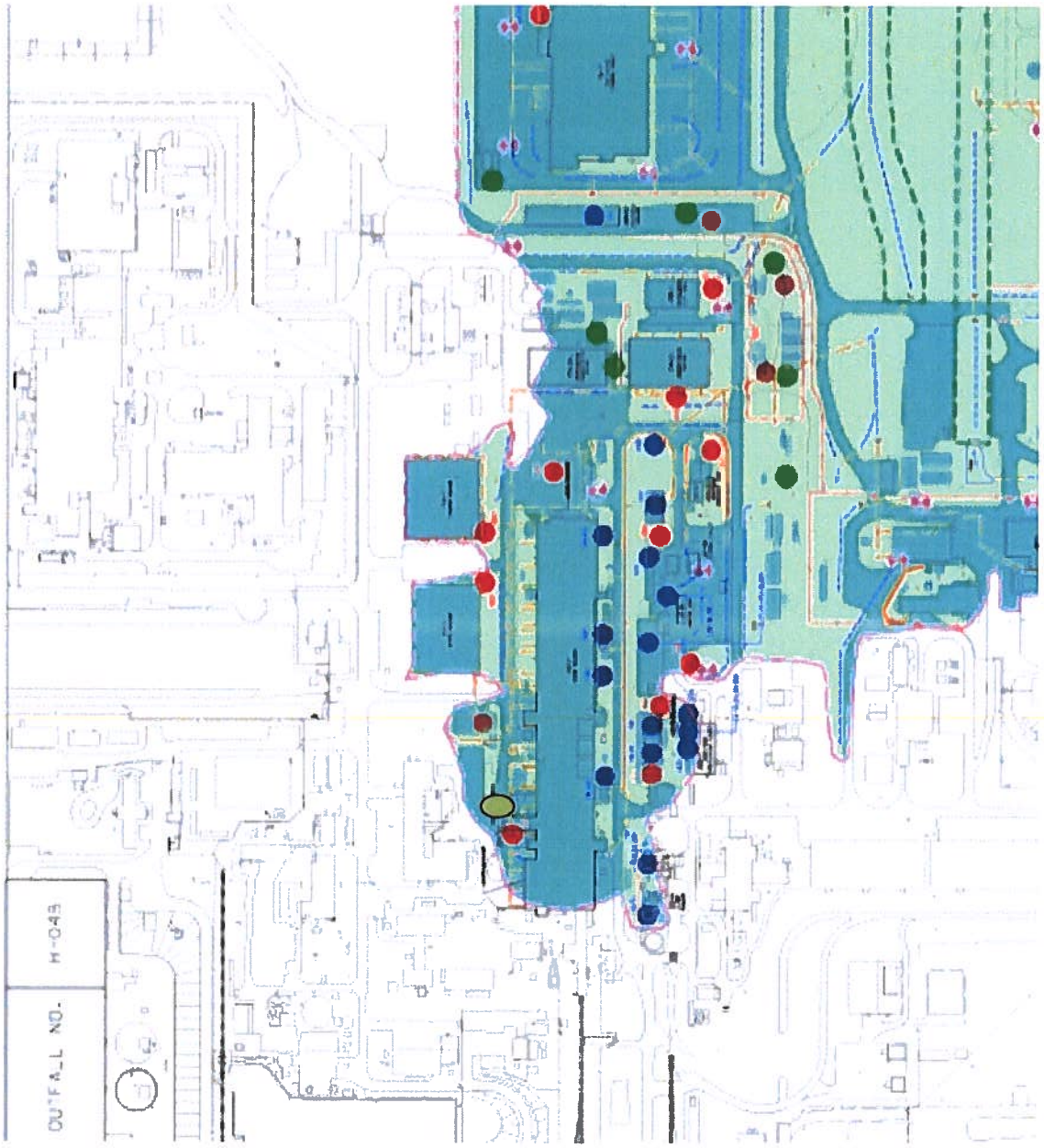
3. Assisted Hazard Analysis (AHA) #HCA-24050 Rev. 0, entitled "*Install New H-Canyon Truckwell Permanent Power E-DCP-H-17008,*" created by Richard Steelman, on 7/29/2019.

4. Asset Suite Work Order #01725426-01, created by Richard Steelman, on 5/6/2019.

Attachment 1. Drawing Showing Approximate Location of Excavations (Green Dots) and Nearby Site Indices (Red Areas)



Attachment 2. H-04B Outfall Drainage Map with Approximate Location of Excavations shown as Green Dot



Location of Pole and Power Pad Installations – due to scale of map, only one dot is shown for both

Attachment 3. Aerial Image Showing Location of Excavations (Green Dots)



Attachment 4. Photo Showing Physical Location

