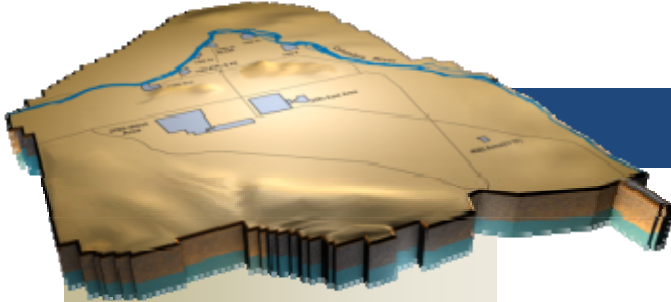


# ARRA Weekly Report



**Week Ending May 21, 2010**

May 25, 2010  
Contract DE-AC06-  
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Modification M047  
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# Contents

|  |    |
|--|----|
| OVERVIEW.....  | 3  |
| ACCOMPLISHMENTS.....   | 4  |
| RL-0011 Nuclear Materials Stabilization & Disposition.....           | 4  |
| RL-0011.R1: Plutonium Finishing Plant D&D.....                       | 4  |
| RL-0013 Solid Waste Stabilization & Disposition.....                 | 8  |
| RL-0013C:R1.1: MLLW Treatment.....                                   | 8  |
| RL-0013C:R1.2: TRU Waste.....  | 8  |
| RL-0030 Soil & Groundwater Remediation, Groundwater/Vadose Zone..... | 9  |
| RL-0030.R1: Central Plateau Soil & Groundwater.....                  | 11 |
| RL-0040 Nuclear Facility D&D – Remainder of Hanford.....             | 14 |
| RL-0040.R1.1: U Plant/Other D&D.....                                 | 14 |
| RL-0040.R1.2: Outer Zone D&D/Waste Sites.....                        | 17 |
| RL-0041 Nuclear Facility D&D – River Corridor Closure Project.....   | 21 |
| RL-0041.R1.1: 100K Area Remediation.....                             | 21 |
| UPCOMING EVENTS.....   | 26 |
| RL-0011 Nuclear Materials Stabilization & Disposition.....           | 26 |
| RL-0013 Solid Waste Stabilization & Disposition.....                 | 26 |
| RL-0030 Soil & Groundwater Remediation, Groundwater/Vadose Zone..... | 27 |
| RL-0040 Nuclear Facility D&D – Remainder of Hanford.....             | 27 |
| RL-0041 Nuclear Facility D&D – River Corridor Closure Project.....   | 27 |

## OVERVIEW

CH2M HILL Plateau Remediation Company (CHPRC) is using funds from the American Recovery and Reinvestment Act (Recovery Act) to accelerate cleanup and demolition efforts across the Central Plateau and along the river corridor to help pursue the U.S. Department of Energy (DOE) 2015 vision and shrink the Hanford Site cleanup footprint.

### RL-0011 Nuclear Materials Stabilization & Disposition

CHPRC is accelerating critical decontamination and decommissioning (D&D) work to prepare the Plutonium Finishing Plant (PFP) for demolition three years ahead of the Tri-Party Agreement milestone of September 2016. The work scope includes removing over 180 glove boxes/laboratory hoods and other highly contaminated equipment from the 234-5Z, 242-Z, and 2736-ZB buildings as well as preparing the former special nuclear material storage structures and other ancillary buildings for demolition.

### RL-0013 Solid Waste Stabilization & Disposition

Recovery Act funds are allowing CHPRC to accelerate retrieval of 2,500 m<sup>3</sup> of suspect transuranic (TRU) waste, eliminate 1,800 m<sup>3</sup> of mixed low-level and low-level waste (MLLW and LLW), and accelerate the overall cleanup of legacy waste and fuels on the Hanford Site.

### RL-0030 Soil & Groundwater Remediation, Groundwater/Vadose Zone

In the ongoing effort to protect the Columbia River, CHPRC is using Recovery Act funding to construct two groundwater treatment facilities, install over 300 wells that will be used for monitoring, extracting, and remediating groundwater, and decommission 350 wells that are no longer of service.

### RL-0040 Nuclear Facility D&D – Remainder of Hanford

Across the Central Plateau and along the outer zone of the Hanford Site, CHPRC is accelerating the demolition of facilities to reduce mortgage costs on buildings that are no longer of service and complete the remediation of waste sites.

### RL-0041 Nuclear Facility D&D – River Corridor Closure Project

In the 100K Area along the Columbia River, CHPRC is demolishing 12 buildings and remediating waste sites to clear the area and prepare for the disposition of two reactors, K East and K West.

## ACCOMPLISHMENTS

### RL-0011 Nuclear Materials Stabilization & Disposition

#### RL-0011.R1: Plutonium Finishing Plant D&D

Since April 2009, CHPRC has used Recovery Act funding to remove the following equipment and waste from throughout the PFP facilities:

- 63 glove boxes/laboratory hoods removed from their originally installed locations including:
  - 47 have been shipped for treatment or disposal
  - 11 are awaiting packaging/shipment
  - 5 are staged for future size reduction and disposal as TRU waste
- More than 1,115 m<sup>3</sup> of waste shipped out of PFP for treatment/disposal including:
  - 960 m<sup>3</sup> of MLLW and LLW
  - 135 m<sup>3</sup> of TRU waste
  - 22 m<sup>3</sup> of non-radioactive waste
- 17 small fuel vaults and other ancillary structures prepared for demolition
  - Two of the structures have been removed from PFP for reuse elsewhere.

#### *Laboratory & Processing Areas*

Three glove boxes previously removed from room 136 of the Analytical Laboratory have been relocated to an area with very low background radiation for non-destructive assay (NDA), which will confirm whether the glove boxes can be transported to the Environmental Restoration Disposal Facility (ERDF) for disposal as LLW.

Isolation, cleanout, and preparations for removal are continuing on 11 glove boxes/hoods in the Analytical Laboratory and the Plutonium Process Support Laboratory. Removal activities are complete in the Standards Laboratory, where a total of 11 glove boxes/hoods were removed earlier this year.

In the RMA Line, D&D crews are focusing on external isolation and cleanout of glove box HA-28, glove box HA-46, and the hydrogen fluoride scrubber cell. In the nearby RMC Line, a D&D team is approximately 50 percent complete with cleanout and removal of four large processing glove boxes from room 230C. A doorway out of the heavily reinforced concrete processing area is being enlarged to support removal of large glove boxes including glove box HC-60, which is ready for removal.

In the Radioactive Acid Digestion Test Unit area, the first two of four large glove boxes are being isolated and cleaned out in preparation for future removal from room 235D.



Photo 1

*The interior of glove box HA-28, a 70-foot-long conveyor glove box in the RMA Line at the Plutonium Finishing Plant, following the removal of internal equipment, including the conveyor belt that ran the length of the glove box.*

### *2736-Z/ZB Vault Complex*

The main glove box in room 636 has been decontaminated to meet LLW criteria and prepared for removal but it cannot be removed through the existing doorway. Procurements and planning for door modifications are under way and nearing completion. Six glove boxes formerly used for plutonium stabilization and packaging are being cleaned out in room 642.

### *242-Z Americium Recovery Facility*

The D&D team is planning for the next phase of entries into the control room to apply contamination fixative and reduce the level of airborne radioactivity prior to initiating cleanout of five glove boxes. Walk-downs and work planning are also under way to mechanically and electrically isolate the building from external energy and utility sources.

### *Security structures and systems*

Almost all of the salvageable security equipment has been removed from the former PFP Badge House and Central Alarm Station. Work documents are being prepared to isolate and certify both buildings as cold and dark. Removal of the mile-long "Great Wall" vehicle barrier is nearly complete, with only days of work remaining to remove short sections at the northwest and northeast corners of the Protected Area.



Photo 2

*The interior of the Central Alarm Station at the Plutonium Finishing Plant, following the removal of monitoring equipment that was no longer of service. The equipment was transitioned for use on other Hanford Site projects.*





Photo 3

*One of only two remaining sections of the mile-long “Great Wall” vehicle barrier that once surrounded the Plutonium Finishing Plant. The wall comprised 670 jersey barriers and thousands of tons of fill. CHPRC is removing security structures like the wall that are no longer of service following the downgrade in security.*

#### *Infrastructure, process support systems, and equipment removal*

Preparations to begin removal of 5,000 feet of heavily contaminated process vacuum system piping throughout the 234-5Z and 291-Z buildings are complete. All improvements to the work documents required by the Hazard Review Board were completed and approved, and the documents were submitted to the PFP Shift Office for release. Field work is expected to begin within the next week. Facility modifications are under way to support a number of D&D needs, including installation of a supplemental cooling system for the former processing facilities; enlargement of doorways; grouting of trenches beneath the floor to support removal of large, heavy equipment from the facilities; and installation of a glove box size-reduction station in the largest of the former 234-5Z building vault-type rooms.

## RL-0013 Solid Waste Stabilization & Disposition

### RL-0013C:R1.1: MLLW Treatment

Of the 1,800 m<sup>3</sup> of MLLW and LLW planned for treatment and disposal under the Recovery Act:

- 973 m<sup>3</sup> of MLLW and LLW have been shipped to date including:
  - 641 m<sup>3</sup> that have been treated and disposed.
  - 332 m<sup>3</sup> at off-site treatment facilities awaiting processing. Treatment is scheduled for FY10.

One shipment was sent out this week from the Waste Retrieval Project on May 20. The shipment consisted of one box (6.4 m<sup>3</sup>) of MLLW debris that will be shipped to Perma-Fix Northwest (PFNW) to undergo treatment through the macro-encapsulation process and packaged for disposal in Hanford's Mixed Waste Disposal Units.



Photo 4

*A shipment of mixed low-level waste debris is loaded onto a truck to be sent to Perma-Fix Northwest. The waste is from a low-level waste burial ground at the Waste Retrieval Project. Once the waste arrives, it will be non-thermally treated through macro-encapsulation. The treated waste will be packaged for disposal in Hanford's Mixed Waste Disposal Units.*



## RL-0013C:R1.2: TRU Waste

Of the 2,500 m<sup>3</sup> of suspect TRU waste planned for retrieval under the Recovery Act:

- 17.1 m<sup>3</sup> are staged, pending shipment.
- 431 m<sup>3</sup> have been shipped to a treatment, storage, or disposal facility.

The Waste Retrieval Group performed activities in the 3A burial grounds including the completion of preventative maintenance on the crane that is required for removal activities at Trench 17. The group also began replacing the wire rope on one spool of the crane. The subsurface survey fieldwork, including the ground-penetrating radar (GPR) survey in Trench 8, was completed with the results of the survey due next week. GPR survey activities were also completed for the power pole installation. Portable containment erection activities continued. In burial ground 4B Trench 11, the recovery plan was approved for moving the boundaries inward to survey and place SUMMA canisters for sampling. Activities in full dress with self-contained breathing apparatuses were performed this weekend and planning continued for the resumption of removal activities in Trench 11. The Mobile Decontamination Unit (MDU) start-up continued and draft operation procedures are complete and ready for review.



Photo 5

Workers exit a work site through a decontamination line after performing 218-W-4B Trench 11 Recovery Plan work. They wore self-contained breathing apparatuses and Level B suits. SUMMA canisters were placed in and retrieved from 4B Trench 11 over the weekend to support planning for future entries and activities in the trench.



Photo 6

A worker samples decontamination water from the decontamination line spill pallet. Workers performed 4B Trench 11 Recovery Plan activities over the weekend to support planning for future activities in the trench. SUMMA canister samples were taken to help determine if any hazardous gases are present identify and provide a sound basis for shrinking the boundary around 4B Trench 11.

#### *Alpha Caisson Retrieval Project*

Preparation for the Baseline Change Request continued. The 30 percent of the preliminary design on the Waste Processing System was received May 16 and routed for review. The 30 percent design on the Waste Retrieval System was completed on May 20. The preliminary Conceptual Safety Design Report was approved and sent to DOE for information on May 20.

#### *TRU Project Drum Repackaging*

Of the 850 m<sup>3</sup> planned to be characterized and repackaged with funding from the Recovery Act:

- 1,352 drums (281.3 m<sup>3</sup>) have been repackaged.
- 40 TRUPACT-II shipments [1,259 55-gallon drums, 24 standard waste boxes (SWBs), two ten-drum over-packs and 98 drums over-packed into 25 SWBs (329.6 m<sup>3</sup>)] have been shipped.





Photo 7

Shippers review paperwork and workers inspect a TRUPACT-II shipment prior to departure from the Waste Receiving and Processing Facility to the Waste Isolation Pilot Plant.

## RL-0030 Soil & Groundwater Remediation, Groundwater/Vadose Zone

RL-0030.R1: Central Plateau Soil & Groundwater

### *Well Drilling & Decommissioning*

Boyart Longyear, a subcontractor to CHPRC, completed the drilling, construction, and development of the 171 planned wells in the 100-NR-2 operable unit along the Columbia River. The next phase of the project will be injecting the wells with the mineral apatite, which will chemically bind with the contaminant strontium-90, holding it in place to halt its migration and allow it to decay.

Carpenter Drilling, also a subcontractor to CHPRC, began drilling the first two of 13 wells planned for installation with Recovery Act funding in the 100-KR-4 operable unit. The wells will support characterization of the vadose zone and aquifer.

Planning is in progress for installing wells in the 100-HR-3, 100-BC-5, and 300-FF-5 operable units. The following table showcases CHPRC's recent progress in well drilling and decommissioning.

| Operable Unit | Scope<br>(Wells to be drilled with Recovery Act funding)   | In<br>progress | Drilled to<br>Total Depth <sup>1</sup> | Completed or<br>Developed <sup>2</sup> |
|---------------|--|----------------|--|--|
| 100-NR-2      | Expand the apatite barrier to better contain a strontium-90 plume along the Columbia River (171 wells)   | 171            | 171                                    | 171                                    |
| 100-KR-4      | Support characterization of the vadose zone and aquifer (13 wells)   | 2              | -                                      | -                                      |
| 100-HR-3      | H Area: Support the optimization of removal of chromium (25 wells)   | 22             | 18                                     | 15                                     |
| 100-HR-3      | D Area: Support the optimization of removal of chromium (16 wells) <sup>4</sup>  | 14             | 14                                     | 14                                     |
| M-24          | Support characterization of the aquifer (5 wells)  | 3              | 2                                      | 2                                      |
| 200-ZP-1      | Support the 200 West Groundwater Treatment Facility that will primarily treat carbon tetrachloride contamination in the groundwater (17 wells) | 12             | 10                                     | 6                                      |
| Site-wide     | Decommission wells that are no longer of service <sup>3</sup> (350 wells)  |                |  | 103                                    |

<sup>1</sup>Wells are drilled to varying depths to address contaminants at different depths in the soil.

<sup>2</sup>When a well is developed, the well screen and riser pipe are placed in the hole, filter pack material is placed around the screen, and the well has been surged and pumped to establish good communication between the well and the surrounding soil.

<sup>3</sup>Wells that are inactive or no longer of service are filled with grout (or other materials such as sand or clay), the casing is removed, and a cap or marker is installed to indicate where the well was previously located.

<sup>4</sup>Final two well locations are waiting for State historic preservation officer approval.



Photo 8

Drillers from the subcontractor Carpenter Drilling (left) remove a soil sample from the 100-KR-4 site as a geologist (right) observes. The sampling will be used to identify what contaminants are present at different depths in the soil. With Recovery Act funds, CHPRC plans to drill 13 wells in the 100-KR-4 area to help characterize the vadose zone and aquifer.



**200 West Groundwater Treatment Facility**

Skanska USA Building Inc., the contractor for construction of 200 West Groundwater Treatment Facility, continued mobilizing construction forces and began integrating with their CHPRC counterparts. Three high-density polyethylene (HDPE) road crossings were completed and HDPE continued to be installed and bonded together.

**DX Groundwater Treatment Facility**

Electrical, mechanical, and process equipment is being installed in the process and two transfer buildings comprising the DX Groundwater Treatment Facility. The progress is listed below.

| Building                     | Electrical Equipment<br>(% complete) | Mechanical Equipment<br>(% complete) |
|------------------------------|--------------------------------------|--------------------------------------|
| Process                      | 75%                                  | 80%                                  |
| Transfer (M1)                | 98%                                  | 100%                                 |
| Transfer (M2)                | 75%                                  | 85%                                  |
| Electrical Power Rack Tie-In |                                      | 40%                                  |
| HDPE Piping Installation     |                                      | 74%                                  |



Photo 9

A finished high-density polyethylene road crossing and piping pass beneath an active roadway en route to the DX Groundwater Treatment Facility. To date, CHPRC has installed 45 road crossings for the DX Groundwater Treatment Facility and 38 road crossings for the 200 West Groundwater Treatment Facility – CHPRC's two groundwater treatment facilities that are under construction with Recovery Act funding.



Photo 10

Workers prepare the site surrounding one of the recently constructed foundation and containment for the acid tank outside the main process building for the DX Groundwater Treatment Facility. A similar structure will be constructed for the basic tank.

## RL-0040 Nuclear Facility D&D – Remainder of Hanford

RL-0040.R1.1: U Plant/Other D&D

### *U Canyon*

Annual mechanical and electrical maintenance on the bridge crane is on schedule to finish early next week. Repairs are complete on the busbar and rail sweeps and equipment guards have been installed. Efforts continued to address Life Safety Code issues including exit signs, emergency lights, handrails, and egress paths. Currently, only installation of additional emergency lights remains to be completed. A statement of work for grout supply and conveyance was finalized and a request for proposals is being processed. A second statement of work was issued for procuring a cask to support transfer of the D-10 tank to T Plant. Work started on remediating asbestos in the operating and pipe galleries.





Photo 11

*Electricians repair the busbar for the U Canyon crane. CHPRC is performing annual mechanical and electrical maintenance on the canyon crane so that it can be returned to service, relocating equipment from the canyon deck into the process cells.*

#### *U Plant Ancillary Facilities*

Demolition work boundaries were established for the 224-U and 224-UA buildings. Trenches were excavated on the perimeter of the demolition site to collect run-off of water used for dust and contamination control during demolition activities.

#### *200 East Core Industrial Area*

Cold and dark activities as well as asbestos abatement on exterior piping continued at the 284-E Powerhouse. Demolition of mobile office MO-405 was initiated.



Photo 12

*Mobile office building MO-405 in the 200 East Area during demolition. The building consists of 12 single-wide trailers put together as one office building. The office was used to support work at the PUREX facility up until the 1990s.*





Photo 13

*A close-up of mobile office building MO-405 during demolition. The building debris, including miscellaneous equipment within the building that was no longer of use at this or other projects, will be loaded into containers for disposal at the Environmental Restoration Disposal Facility.*

#### *209-E Criticality Mass Laboratory*

Efforts continued to complete the required documentation (e.g., Facility Hazards Analysis, Documented Safety Analysis, Notice of Construction and Criticality Safety Evaluation Report) for submittal to DOE and the regulatory agencies for approval. Halon was removed from the facility and a walk-down for Life Safety Code upgrades was performed. Preparation of work documents for the facility Life Safety Code upgrades continued. Materials for the upgrades were ordered. The work documents are expected to be complete next week and the Life Safety Code upgrades will begin when the materials are received. Characterization activities will resume once the necessary Life Safety Code upgrades are complete.

#### RL-0040.R1.2: Outer Zone D&D/Waste Sites

##### *Arid Lands Ecology Reserve (ALE) D&D*

Demolition of the upper ALE facilities continued with the demolition of the 6652-C Nike Building/Space Science Laboratory and Building 614 Pump House. Cleanup of miscellaneous debris sites throughout the ALE Reserve also continued.



Photo 14

*Demolition of facilities on the upper Arid Lands Ecology (ALE) Reserve continued with the demolition of the 6652-C Nike Building/Space Science Laboratory, which is the largest ALE facility atop Rattlesnake Mountain. The building was constructed in the 1950s as part of the Nike radar control center and served as the barracks for Battery C of the 83<sup>rd</sup> Battalion that manned the control center.*





Photo 15

Workers remove piping from the exterior of the 6652-C Nike/Space Science Laboratory on the upper Arid Lands Ecology Reserve.

*Waste Sites*

The following table showcases CHPRC’s recent progress in removing contaminated soil from waste sites in the outer zone, which includes the 200 Areas and the BC Control Area.

| Waste Site in Progress | Tons of Contaminated Soil Removed |                      |
|------------------------|-----------------------------------|----------------------|
|                        | <i>Week Ending May 21, 2010</i>   | <i>Total to Date</i> |
| 216-N-4                | 500                               | 25,200               |
| BC Control Area        | 2,500                             | 112,200              |

Recent activities regarding the outer zone waste sites also includes (listed by operable unit or site):

- *200-MG-1*
  - 600-36: Based upon sample data, additional excavation occurred this week.
  - 600-37: Sampling activities continued.
  - 600-40: Based upon sample data, additional excavation occurred this week.
  - 600-226: Sampling activities were completed and the samples are being analyzed.
  - 600-228: Sampling activities continued.
  - 600-262: Confirmatory sampling data indicates contamination levels are below the allowable limits, therefore closure documentation is being prepared.

- 600-275: Excavation was deferred due to nesting birds in proximity to the waste site.
- 600-281: Confirmatory sampling was completed and the data report is being prepared.
- OCSA (Old Central Shop Area): Confirmatory sampling instructions were issued and sampling activities continued.
- Planning for retrieve, treat, and disposal activities continued for the following waste sites:
  - 200-W-33
  - 600-218
  - 600-38.
- 200-CW-3
  - 216-N-1: Closure documentation is being prepared for DOE and Regulatory approval.
- BC Control Area
  - For Zone A, approximately 28 acres have been excavated and surveyed; for Zone B, 850 acres have been surveyed and the hazards were down-posted from a radiologically contaminated area. Surveying in Zone B has been temporarily stopped due to concerns involving migratory birds.

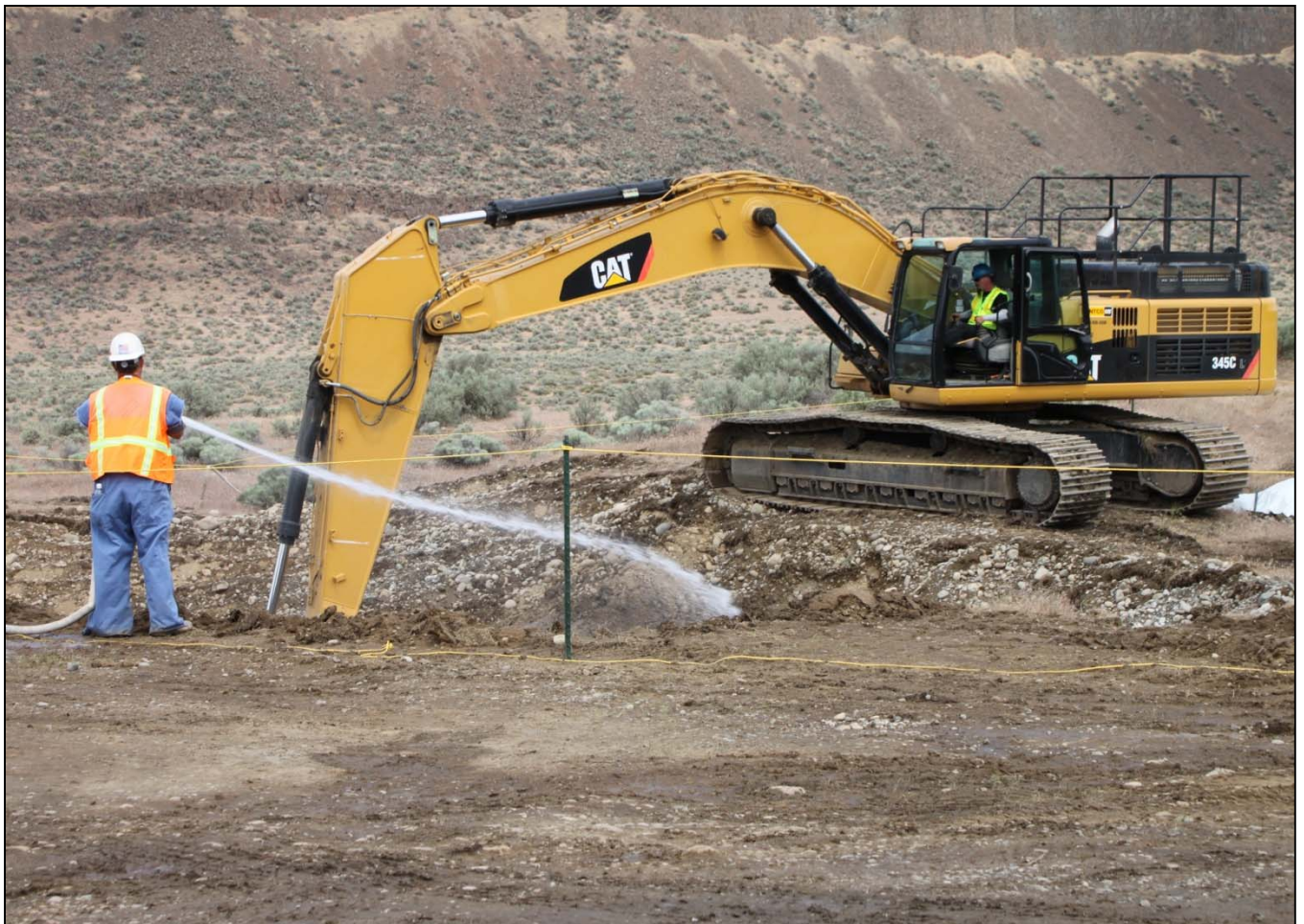


Photo 16

A worker sprays water to control dust as soil is excavated from the 600-40 waste site. CHPRC is using Recovery Act funding to remediate the 600-40 waste site, which was a dumping ground for miscellaneous concrete, lumber, and metal items in the 200-MG-1 operable unit.



## RL-0041 Nuclear Facility D&D – River Corridor Closure Project

### RL-0041.R1.1: 100K Area Remediation

#### *Facility D&D*

Demolition of the 183.2KW Sedimentation Basin floor is complete. Demolition continued on the east wall. The rubble from the floor and wall is being stockpiled. Demolition of the 183.3KW Filter Basin continued. Demolition was initiated on the 183.7KW Pipe Tunnel. The tunnel extended from the 183.1KW Headhouse through the center of the 183.2KW Sedimentation Basin to the 190KW Process Water Pump House. The Pipe Tunnel contains two raw water lines, a sewer line, and an elevated walkway.



Photo 17

*Rubble from demolition of the east wall of the 183.2KW Sedimentation Basin is being removed and stockpiled for future use. Demolition of the 183.7KW Pipe Tunnel begins in the background.*



Photo 18

*Demolition of the 183.7KW Pipe Tunnel begins. The tunnel extended from the 183.1KW Headhouse through the center of the 183.2KW Sedimentation Basin to the 190KW Process Water Pumphouse.*

Approximately 265 feet of interior ducting has been installed in the 105KW Fuel Storage Basin facility as part of the 105KW heating, ventilation, and cooling (HVAC) system upgrade.

Preliminary design activities and document preparation for disposition of the 105KE Reactor continued. Core boring equipment was relocated to the second of four locations. Improvements identified during the post-job review of the first core boring were incorporated into the work documents. Samples from the first core boring location are being analyzed. Asbestos abatement preparations and hazardous material removal continued in the 105KE Reactor building.

#### *Infrastructure Utilities Upgrade Project*

About 6,100 feet of pipe has been installed, including three road crossings, for the import water line. Overall, installation of the import water line is about 50 percent complete. Installation of the fire water pipeline along the southwestern portion of the 100K Area is complete. Installation of a 4-inch potable water pipe to the 105KW Building and Cold Vacuum Drying Facility continued. About 1,500 feet of pipe and fittings has been installed. The locations for the fire and potable water pipe installation on the west side of the 105KW Reactor building were surveyed and marked. A staging area was established for ERDF containers that will be used to receive soils removed from the work site. A contract for installation of the



fire water and potable water line for the remainder of the 100K Area was awarded and contractor submittals are being processed.



*Workers install a section of the 4-inch potable water line in the 100K Area.*

Photo 19

Placement of compacted structural backfill was completed for the Water Treatment Facility. Building sump and building footing concrete form construction continued. Off-site fabrication for the fire pump, Water Treatment Building, tank, and microfiltration unit is ongoing. Off-site fabrication for process piping started.

Trench excavation and conduit installation is complete for the A9 Switchyard Site. Controlled density fill material placement in the trenches continued and the trenches are being backfilled. Upgrading of the A9 Switchyard Site is about 80 percent complete. Equipment is being mobilized for startup of the A9 substation refurbishment. Fabrication of the 230kV Mobile Skids is continuing. Preparation of the design change for the 13.8kV re-route to replace aerial installation with underground installation is continuing.

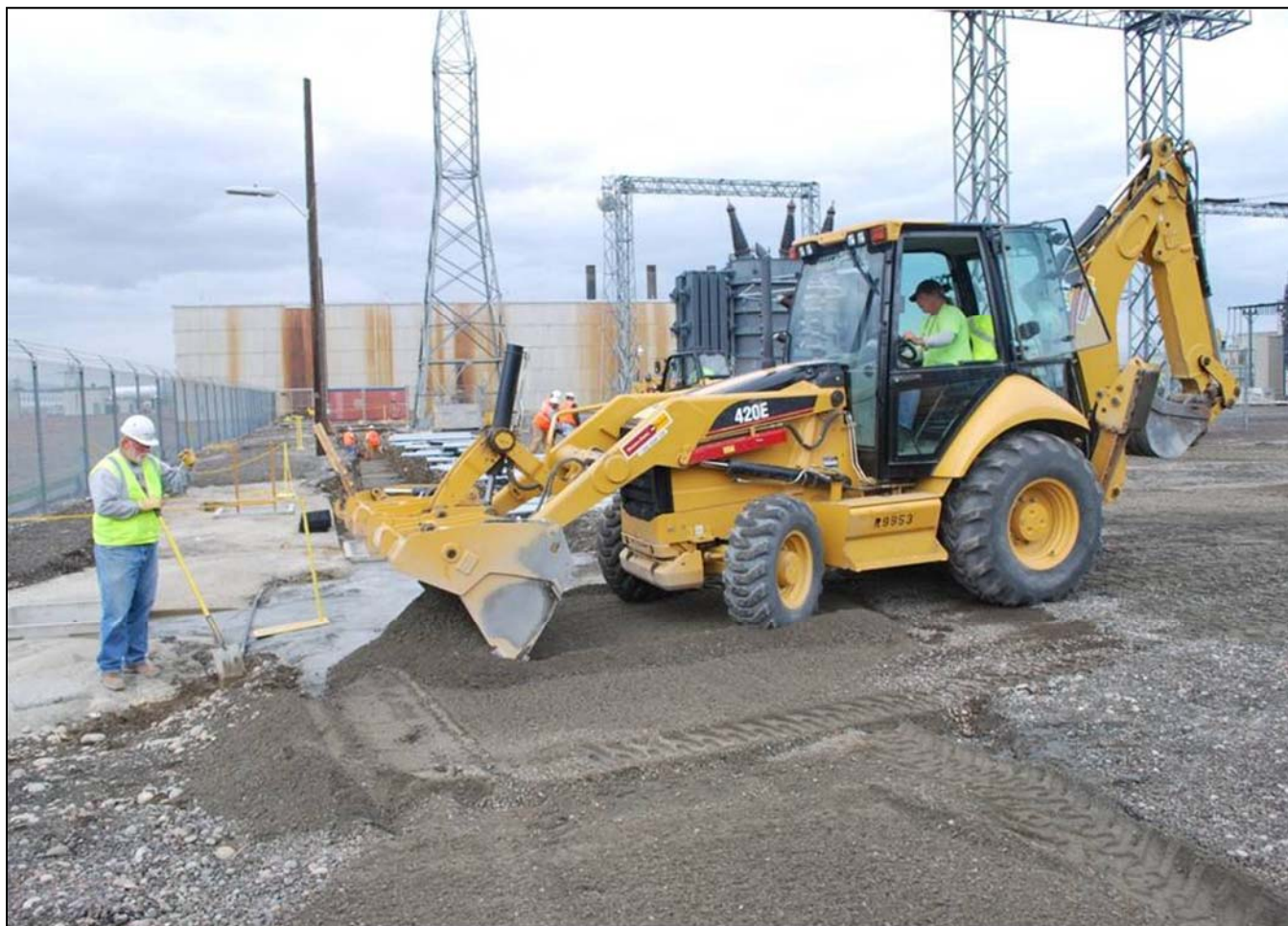


Photo 20

Gravel is placed over trenches containing newly installed conduit as part of the A9 Switchyard upgrades. The conduit will provide electrical distribution to the 100K Area so existing infrastructure can be removed to facilitate future work.

### Waste Sites

The following table showcases CHPRC's progress in removing contaminated soil from 100K Area waste sites, which were contaminated as a result of operations at Hanford's K Reactors.

| Waste site in progress  | Tons of contaminated soil removed |         |
|---|-----------------------------------|---------|
|   | Week Ending May 21, 2010          | To date |
| 100-K-47 (Process Sewer)  | 600                               | 10,900  |
| 100-K-53 (Glycol Heat Recovery Underground Pipelines)                             | 200                               | 200     |
| 100-K-56 (Reactor Cooling Water Pipelines)  | -                                 | 8,700   |
| 100-K-68 (Pump Gallery and Catch Tank)  | 900                               | 6,900   |
| 100-K-71 (Collection Box)   | -                                 | 5,000   |
| 100-K-102 (French Drains and Mercury Stained Soil near 183KW Sedimentation Basin) | -                                 | 10,200  |
| 116-KE-3 (Storage Basin French Drain)   | -                                 | 2,900   |
| 120-KW-1 (183-KW Filter Water Facility Dry Well)                                  | 5,200                             | 6,200   |



Recent progress also includes (listed by waste site):

- Closure documentation is being developed for the following waste sites:
  - 100-K-37 (Sulfuric Acid Tank)
  - 100-K-38 (Caustic Soda Tank)
  - 116-KE-6A (Condensate Collection Tank)
  - 116-KE-6B (Evaporator Tank)
  - 116-KE-6C (Waste Accumulation Tank)
  - 116-KE-6D (Ion Exchange Column)
  - 118-KE-2 (Control Rod Storage Cave)
  - 130-KE-1 (Emergency Diesel Oil Storage Tank)
- 100-K-63 (*West Floodplain*) – Planning continued for the remediation of the waste site.

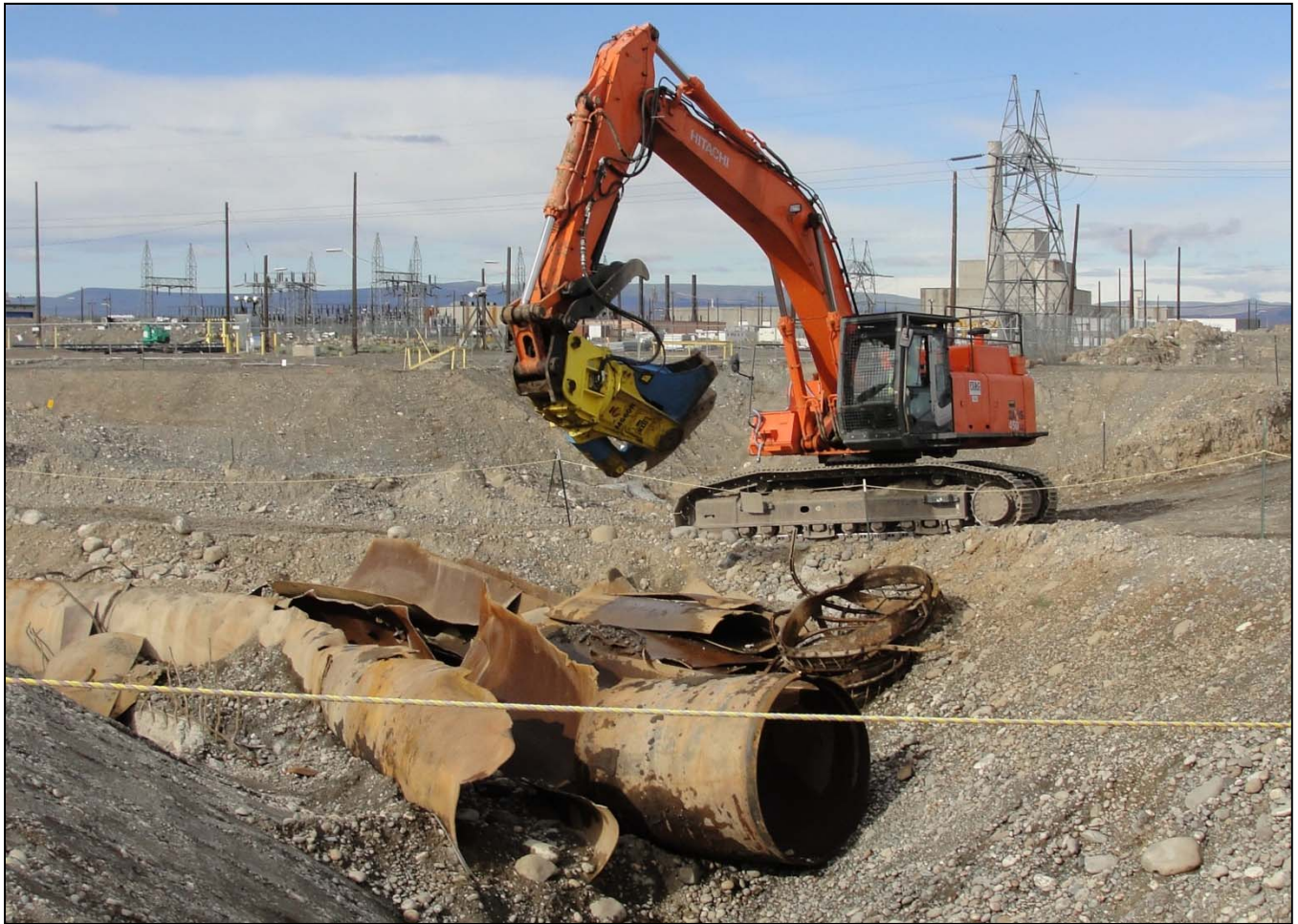


Photo 21

An excavator shears a pipeline that is 72 inches in diameter, approximately 900 feet in length, and reaches depths between 4 and 32 feet. At the 100K Area, CHPRC is using Recovery Act funding to remediate the 100-K-56 pipeline waste site (which includes reactor cooling water effluent pipelines) located on the north side of the K East Reactor.

## UPCOMING EVENTS

### RL-0011 Nuclear Materials Stabilization & Disposition

#### RL-0011.R1: Plutonium Finishing Plant D&D

- Complete equipment removal from six glove boxes/hoods in room 139 and initiate cleanout of two hoods in room 141.
- Continue isolation and cleanout of three glove boxes/hoods in rooms 180 and 188.
- Enlarge doorway 638 and transfer glove box HC-60 to Solid Waste Operations for NDA
- Remove various structures around glove box HC-230C-3, apply contamination fixative within the box, remove it from building ventilation, and transfer the glove box to Solid Waste Operations.
- Separate glove box 400 from glove box 200 and remove it from building ventilation.
- Begin chemical decontamination of glove box HA-28, and complete external isolations from glove box HA-46.
- Restart work on glove boxes 227-S and 227-T.
- Initiate removal of the process vacuum system piping from the 234-5Z and 291-Z buildings.
- Isolate the 636 glove box from building ventilation, enlarge the exit doorway, and remove the glove box from the 2736-ZB building.
- Install a new glove box panel and load-out port in room 642 of 2736-ZB for removal of larger and heavier equipment.
- Complete updated NDA measurements of the 2736-ZB ventilation ducting and filter housings to support implementation of the D&D Documented Safety Analysis.
- Begin applying contamination fixative in the 242-Z control room.

### RL-0013 Solid Waste Stabilization & Disposition

#### RL-0013C:R1.1: MLLW Treatment

- Planned shipment of six drums (1.4 m<sup>3</sup>) of LLW debris sent from the Waste Receiving and Processing Facility (WRAP) to PFNW.
- Planned shipment of eight drums (2.2 m<sup>3</sup>) of MLLW debris sent from WRAP to PFNW.
- Planned shipment of four drums (0.8 m<sup>3</sup>) of MLLW debris from the Central Waste Complex to PFNW.

#### RL-0013C:R1.2: TRU Waste

- Continue MDU start-up.
- Continue portable containment erection activities at 3A Burial Ground.
- Continue Recovery Act funded trailer and power installation at 3A Burial Ground.
- Develop draft of 3A Trench 8 Retrieval Plan.
- Receive and interpret results of subsurface survey of 3A Trench 8.
- Receive preliminary results from 4B Trench 11 Recovery Plan SUMMA canisters.
  - Shrink exclusion zone boundary pending results.
- Receive 4B Trench 11 Recovery Plan decontamination line rinse water lab results and disposition rinse water and materials.
- Resume removal of 3A Trench 17 Box 3 activities.
- Alpha Caisson Retrieval
  - Issue preliminary design review on the Waste Processing System by May 19.
  - Receive bids for remote retrieval system mock-up demonstration/validation on June 1.
  - Complete Acquisition Plans by June 15.
  - Complete project shut-down efforts by July 2.



- TRU Repack
  - Three planned TRUPACT-II shipments to the Waste Isolation Pilot Plant.

## **RL-0030 Soil & Groundwater Remediation, Groundwater/Vadose Zone**

### **RL-0030.R1: Central Plateau Soil & Groundwater**

- Continue construction of the 200 West and DX Groundwater Treatment Facilities.
- Continue decommissioning wells across the site.
- Continue drilling at M-24, 100-HR-3, 100-KR-4 and 200-ZP-1.
- Continue planning for well installations at 100-HR-3, 100-BC-5, and 300-FF-5.

## **RL-0040 Nuclear Facility D&D – Remainder of Hanford**

### **RL-0040.R1.1: U Plant/Other D&D**

- Receive delivery of the remaining D&D heavy equipment being procured.
- Begin demolition for the U Plant ancillary facilities.
- Continue relocating equipment from the U Canyon deck into the process cells.
- Continue demolition preparations (i.e., cold and dark activities) for the 284-E Powerhouse.
- Continue demolition of the 200 East Core Industrial Area facilities
- Continue planning and preparations for demolition of the 209-E Criticality Mass Laboratory.

### **RL-0040.R1.2: Outer Zone D&D/Waste Sites**

- Continue removal of debris sites throughout the ALE Reserve.
- Continue demolition of the upper ALE facilities.
- Continue cold and dark isolation activities of the ridgeline communication structures.
- Continue remediation of the BC Control Area, 200-CW-3, and 200-MG-1 waste sites.

## **RL-0041 Nuclear Facility D&D – River Corridor Closure Project**

### **RL-0041.R1.1: 100K Area Remediation**

- Continue demolition of the 183KW Sedimentation Basin structures.
- Continue demolition preparation activities for the 115KE, 116KE, 117KE, 1706KE, and 1706KER buildings.
- Continue debris removal from the KW Fuel Storage Basin.
- Continue activities for upgrading the 105KW HVAC system.
- Continue preliminary design and characterization activities for disposition of the 105KE Reactor.
- Continue activities for isolating 100K Area utilities to support of cold and dark preparations.
- Continue remediating soil from waste sites.