

Environmental Radiological Survey Summary

Calendar Year 2014, Fourth Quarter

Hanford Site 100, 200, 300, and 600 Areas

Prepared for the U.S. Department of Energy
Assistant Secretary for Environmental Management
Contractor for the U.S. Department of Energy
under Contract DE-AC06-09RL14728



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Acronyms

| | |
|-----------------|--|
| ALARA | as low as reasonably achievable |
| BCP | Biological Control Program |
| c | centimeter |
| CA | contamination area |
| CFR | Code of Federal Regulations |
| CHPRC | CH2M HILL Plateau Remediation Company |
| cm ² | square centimeter |
| cpm | counts per minute |
| CX | categorical exclusions |
| CY | calendar year |
| DOE | U.S. Department of Energy |
| dpm | disintegrations per minute |
| ERDF | Environmental Restoration Disposal Facility |
| ETF | 200 Area Effluent Treatment Facility |
| IBC | Integrated Biological Control Program |
| LERF | Liquid Effluent Treatment Facility |
| mrad/hr | millirad (radiation-absorbed dose) per hour |
| MSA | Mission Support Alliance, LLC |
| NEPA | National Environmental Policy Act of 1969 |
| PA | probe area |
| RA | radiation area |
| RCW | Revised Code of Washington |
| SWCX | site-wide categorical exclusions |
| URMA | underground radioactive material area |
| WAC | Washington Administrative Code |
| WCH | Washington Closure Hanford, LLC |
| WIDS | Waste Information Data System |
| WRPS | Washington River Protection Solutions, LLC |
| WSCF | Waste Sampling and Characterization Facility |

1.0 INTRODUCTION

This quarterly report summarizes the radiological surveys performed on the Hanford Site in support of near-facility environmental monitoring. The survey results and the status of corrective actions required are also discussed in this report.

Routine radiological surveys are an integral part of the Hanford Site near-facility environmental monitoring for tracking facility and waste site status and to aid in the reduction of the radiological areas at the Hanford Site. Radiological Control Groups of Mission Support Alliance, LLC (MSA), CH2M HILL Plateau Remediation Company (CHPRC), Washington River Protection Solutions, LLC (WRPS), and Washington Closure Hanford, LLC (WCH) perform routine radiological surveys on the Hanford Site. The radiological surveys are performed at inactive waste sites, outdoor radiological control areas, tank farm perimeters (including diversion boxes, lift stations, and vent stations), perimeters of active or uncovered waste sites (such as burial grounds, retention basins, ponds, process trenches, and ditches), underground pipelines, and road surfaces.

The *Hanford Site Environmental Surveillance Master Sampling Schedule for Calendar Year 2014* ([DOE/RL-2013-53](#)), was developed by the MSA Environmental Surveillance staff and the MSA radiological control group provides a schedule for the waste sites to be surveyed. However, some waste sites are not accessible during the calendar year due to ongoing remediation activities. MSA Environmental Surveillance staff reviews and summarizes the radiological survey reports in the *Hanford Site Annual Environmental Report*. Radiological conditions are also tracked and trends are noted for use by the facility managers and landlords. Newly discovered radioactive waste and unplanned release sites are added to the schedule as necessary. The survey frequencies are based on site history, radiological conditions, and general maintenance. Non-routine surveys may be conducted if conditions warrant (e.g., growth of deep-rooted vegetation is noted at a waste site). Radiological surveys are conducted to detect surface contamination and document changes in vegetation growth, biological intrusion, erosion, and site maintenance conditions. Survey data are compared with standards identified in MSC-5173, *MSC Radiological Control Manual*; CHPRC-00073, *CH2M HILL Plateau Remediation Company Radiological Control Manual*; and/or HNF-5183, *Tank Farms Radiological Control Manual*, as well as previous surveys to determine trends, assess environmental impact, and allow determination of where corrective actions are needed.

The Occurrence Reporting System is used to track legacy radioactive contamination greater than ten times the total contamination values in Title 10 Code of Federal Regulations (CFR) [Part 835](#), "Occupational Radiation Protection," Appendix D, and is found outside a posted Contamination Area (CA), High CA, Airborne Radioactivity Areas, Radiological Buffer Areas, and areas controlled in accordance with [10 CFR 835.1102\(c\)](#).

These radiological surveys are conducted to determine surface radiological conditions and do not constitute a release survey. Therefore, surveys that detect no contamination in radiological areas do not release the site from control, but may result in changing the posting status. Surveillance of the active nuclear facilities, waste sites, and radiologically posted areas are the responsibility of the contractor those areas are assigned to.

2.0 PROGRAM DESCRIPTION

2.1 Environmental Radiological Survey Objectives

The objective of the radiological surveys is to determine whether there have been changes in the radiological status of the 100, 200, 300, and 600 Areas outdoor radioactive waste sites. These sites include surface water disposal units, cribs, trenches, burial grounds, tank farm diversion box perimeters, and reverse wells (refer to section 6.0 for the listing of waste sites). Determining trends in radiation levels or radiological contamination may aid in assessing the adequacy of waste containment by detecting the movement of radioactive material away from radiological control areas, or by detecting releases that might otherwise go unrecognized. When activity is detected, a thorough survey is performed using a portable count rate meter equipped with a thin-window, pancake-type probe. The appropriate facility manager or landlord is notified if contamination is identified and the responsible manager initiates corrective actions.

2.2 Priority Ranking System

A numerical ranking system is used for categorizing contaminated waste sites relative to environmental radiological concerns. This system provides guidance to responsible landlords for clean up or interim stabilization of waste sites. The waste site level and type of contamination, site accessibility and size, and contamination mobility are all used as a basis for review. A numerical value is assigned to each site based on this review.

Contamination levels ranging from 1,000 disintegrations per minute (dpm) to greater than 10 millirads per hour (mrad/hr) (as measured on field survey instruments) are considered and assigned a numerical value of one (lowest value) to five (greatest value). Any removable alpha contamination is considered a high priority and automatically receives a numerical rank value of five.

The location is evaluated for accessibility. A restricted site in a remote area would receive the lowest point value of one. They would progress up to a value of five where the public may have access.

Mobility scoring is based on contamination that can be, or has a history of being, transported from where it was originally identified to places outside of the posted radiological area. Fixed contamination would receive a value of one progressing to contamination that can potentially be blown by the wind or through biological uptake and transport receiving a value of five. There is a maximum of 15 points possible with this ranking system.

It should be noted that this system is not intended to be a total qualitative or quantitative risk assessment, but rather a way of communicating environmental significance to the landlord and respective program office. Before a site is designated for remediation, other elements of the site clean-up process are also considered such as costs, location, public/regulatory interest, risk assessments, and engineering strategies. Table 1 shows the top 10 ranked sites.

Table 1. Top 10 Priorities Ranking for Contaminated Waste Sites

| Waste Site | Custodian | Levels | Location | Mobility |
|---|------------------|---------------|-----------------|-----------------|
| Liquid Effluent Retention Facility (LERF) | CHPRC | 3 | 5 | 5 |
| 200-E-109 200 East Fence Line | CHPRC | 3 | 4 | 5 |
| 218-E-12B Burial Ground | CHPRC | 4 | 3 | 5 |
| 218-E-12A Burial Ground | CHPRC | 4 | 3 | 5 |
| 216 BC Cribs/Controlled Area | CHPRC | 4 | 3 | 5 |
| 216-U-10 Pond | CHPRC | 4 | 3 | 4 |
| 241-B Tank Farm | WRPS | 5 | 1 | 5 |
| 241-SX/SY Tank Farm | WRPS | 3 | 4 | 4 |
| 241-BX/BY Tank Farm | WRPS | 5 | 1 | 5 |
| 241-C Tank Farm | WRPS | 5 | 1 | 5 |

2.3 Environmental Standards

Radiological survey data are used to determine compliance of radioactive waste sites with MSC-PRO-15334, *Effluent and Environmental Monitoring*, and MSC-RD-15332, *Environmental Protection Requirements*, for MSA monitored sites; TFC-ESHQ-RP-MON-P-10, *Required Radiological Surveillances*, for WRPS managed sites; PRC-RD-EP-15332, *Environmental Protection Requirements*, and PRC-PRO-EP-15334, *Effluent and Environmental Monitoring for Radionuclide Airborne Emissions*, for CHPRC managed sites; and ENV-1, Chapter 1.9, *Environmental Monitoring and Management* for WCH managed sites.

In order to compare field instrument values with the standards listed in the contractor's radiological control manuals, a conversion factor is necessary. This conversion factor has been established using a Geiger-Mueller detector with a pancake type probe where 20,000 dpm (2,000 counts per minute [cpm]) are approximately equivalent to one millirem per hour for beta-emitting radionuclides as indicated in UCRL-88275, *Evaluation of Beta Energy (E max) and Spectral Type Using Survey Instruments*. It should be understood that converting field instrument values, which include both beta and gamma energies, is approximate for field reporting purposes and does not allow for absolute precision.

2.4 Survey Methods and Procedures

Surveys documented in this report include road surfaces, cribs, underground pipelines, stabilized burial grounds, covered ponds and ditches, tank farm perimeters, active burial ground perimeters, unplanned release sites, and other radiological areas. Vegetation, animal burrows, and animal feces are also monitored to detect biological transport when they are within the survey area.

Methods and procedures for these surveys can be found in PSRP-DI-0611, *Near-Facility Environmental Monitoring*; MSC-5173, *MSC Radiological Control Manual*; CHPRC-00073, *CH2M HILL Plateau Remediation Company Radiological Control Manual*; HNF-5183, *Tank Farms Radiological Control Manual*; and WCH procedure, ENV-1, Chapter 2.35, *Environmental Monitoring and Management*.

Waste sites and other radiological areas are surveyed with portable site approved field instruments. The portable field instrument survey results are reported in disintegrations per minute per 100 centimeters² (dpm/100 cm²). Efficiency correction factors, as documented in the various contractor radiological control manual/procedures, are applied. These can vary between contractors, but are approved as part of each contractor's radiological control program. Surveys include the perimeter and portions of the ground surface of radiological areas. Wherever possible, smear surveys are made on the surface of exposed equipment and other hard surfaces within a radiological area.

3.0 RADIOLOGICAL SURVEY SUMMARY

A total of 25 contamination incidents were discovered in the fourth quarter of CY 2014. Contamination was discovered in 22 vegetation incidents, 1 animals or animal waste material, and 2 soil contamination discoveries. Contamination levels ranging from a low of 3,000 dpm/100 cm² beta/gamma to 3,600,000 dpm/ 100 cm² beta/gamma were reported. Of the 25 contamination incidents, 16 were at CHPRC sites, 2 were at WRPS sites, and 7 were at MSA sites.

Contamination was removed for proper disposal at 16 of the 25 sites. The remaining 9 sites were posted. The radiologically contaminated areas are posted to meet the requirements as outlined in the respective contractor's radiological control manual. The posting includes the following categories: High Contamination (activity >100,000 dpm/100 cm² beta/gamma and/or >2,000 dpm/100 cm² alpha), Contamination, Soil Contamination, Underground Radioactive Material, Radiological Buffer, and Radiation and High Radiation areas. Table 2 summarizes CY2014 contamination incidents listed by discovering contractor, including responses and occurrence dates using data that was available at time of publishing.

Table 2. Contamination Incidents by Discovering Contractor

| DATE | INCIDENT | CONTRACTOR | RESPONSE | REPORTABLE* |
|------------|--------------|------------|----------|-------------|
| 01/06/2014 | Tumbleweed | MSA | Disposed | No |
| 01/09/2014 | Soil | MSA | Posted | No |
| 01/09/2014 | Tumbleweed | MSA | Disposed | No |
| 01/13/2014 | Tumbleweed | CHPRC | Disposed | Yes |
| 01/20/2014 | Animal Waste | WCH | Posted | Yes |
| 01/21/2014 | Tumbleweed | MSA | Disposed | No |
| 01/22/2014 | Tumbleweed | CHPRC | Disposed | No |
| 01/23/2014 | Rabbit Feces | WRPS | Disposed | No |
| 01/27/2014 | Tumbleweed | MSA | Disposed | Yes |
| 01/30/2014 | Tumbleweed | CHPRC | Disposed | Yes |
| 01/30/2014 | Speck | WRPS | Disposed | No |
| 01/30/2014 | Soil | CHPRC | Posted | Yes |
| 02/04/2014 | Tumbleweed | MSA | Disposed | Yes |
| 02/18/2014 | Tumbleweed | MSA | Disposed | Yes |
| 02/20/2014 | Soil | CHPRC | Posted | No |

| DATE | INCIDENT | CONTRACTOR | RESPONSE | REPORTABLE* |
|-------------|-----------------|-------------------|-----------------|--------------------|
| 02/24/2014 | Soil | CHPRC | Posted | No |
| 02/27/2014 | Urine – Rabbit | WRPS | Disposed | No |
| 03/04/2014 | Tumbleweed | MSA | Disposed | No |
| 03/04/2014 | Deer Mouse | MSA | Disposed | No |
| 03/05/2014 | Soil | CHPRC | Posted | Yes |
| 03/06/2014 | Soil | CHPRC | Posted | No |
| 03/11/2014 | Soil | CHPRC | Posted | Yes |
| 03/11/2014 | Soil | WRPS | Disposed | No |
| 03/12/2014 | Rabbit Feces | WRPS | Disposed | Yes |
| 03/12/2014 | Tumbleweed | MSA | Disposed | No |
| 03/17/2014 | Tumbleweed | WCH | Disposed | Yes |
| 03/18/2014 | Tumbleweed | WCH | Disposed | Yes |
| 03/21/2014 | Soil | WRPS | Disposed | No |
| 03/26/2014 | Tumbleweed | WCH | Disposed | Yes |
| 03/26/2014 | Mice | MSA | Disposed | No |
| 03/27/2014 | Concrete | WCH | Posted | Yes |
| 03/27/2014 | Soil | CHPRC | Posted | No |
| 03/31/2014 | Tumbleweed | MSA | Disposed | Yes |
| 04/01/2014 | Soil | WRPS | Posted | NO |
| 04/03/2014 | Soil | WRPS | Posted | Yes |
| 04/08/2014 | Mice | MSA | Disposed | No |
| 04/08/2014 | Tumbleweed | PRC | Posted | Yes |
| 04/10/2014 | Mice | PRC | Disposed | No |
| 04/14/2014 | Rabbit Feces | WRPS | Disposed | Yes |
| 04/14/2014 | Bird Nest | PRC | Disposed | No |
| 04/14/2014 | Bird Feces | PRC | Disposed | No |
| 04/15/2014 | Mice | PRC | Disposed | No |
| 04/16/2014 | Tumbleweed | MSA | Disposed | No |
| 04/21/2014 | Tumbleweed | MSA | Disposed | No |
| 04/21/2014 | Rabbit Feces | WRPS | Disposed | Yes |
| 04/22/2014 | Mouse | PRC | Disposed | No |
| 04/29/2014 | Bird Nest | PRC | Disposed | No |
| 05/02/2014 | Rabbit Feces | WRPS | Posted | Yes |
| 05/06/2014 | Mouse | PRC | Disposed | No |
| 05/08/2014 | Mouse | PRC | Disposed | No |
| 05/12/2014 | Rabbit Feces | WRPS | Disposed | No |
| 05/13/2014 | Tumbleweed | MSA | Disposed | Yes |
| 05/13/2014 | Bird Nest | PRC | Disposed | No |
| 05/21/2014 | Bird Nest | PRC | Disposed | No |
| 05/21/2014 | Soil | WRPS | Disposed | No |
| 05/26/2014 | Bird Nest | PRC | Disposed | Yes |
| 05/27/2014 | Soil | PRC | Posted | No |
| 05/28/2014 | Tumbleweed | MSA | Disposed | No |

| DATE | INCIDENT | CONTRACTOR | RESPONSE | REPORTABLE* |
|-------------|-------------------|-------------------|-----------------|--------------------|
| 05/29/2014 | Rodent Feces | WRPS | Disposed | No |
| 05/30/2014 | Soil/Animal Urine | WRPS | Disposed | Yes |
| 06/18/2014 | Bird Feces | PRC | Disposed | Yes |
| 06/18/2014 | Rabbit Feces | WRPS | Disposed | No |
| 06/24/2014 | Bird Nest | PRC | Disposed | No |
| 06/26/2014 | Animal Urine | PRC | Posted | Yes |
| 06/30/2014 | Soil | PRC | Disposed | Yes |
| 07/01/2014 | Debris | WCH | Disposed | Yes |
| 07/01/2014 | Soil | WRPS | Disposed | No |
| 07/10/2014 | Rabbit | WRPS | Disposed | No |
| 07/21/2014 | Tumbleweed | WRPS | Disposed | No |
| 08/14/2014 | Bird Nest | WCH | Disposed | Yes |
| 09/03/2014 | Tumbleweed | PRC | Disposed | No |
| 09/05/2014 | Soil | WRPS | Disposed | Yes |
| 09/05/2014 | Mouse Feces | WRPS | Disposed | Yes |
| 09/05/2014 | Bait Station | WRPS | Stored | No |
| 09/16/2014 | Mouse | MSA | Disposed | No |
| 09/16/2014 | Tumbleweed | MSA | Disposed | No |
| 09/16/2014 | Tumbleweed | MSA | Disposed | No |
| 09/17/2014 | Tumbleweed | PRC | Disposed | No |
| 09/18/2014 | Tumbleweed | PRC | Disposed | No |
| 09/18/2014 | Tumbleweed | PRC | Disposed | No |
| 09/18/2014 | Soil | WRPS | Disposed | Yes |
| 09/29/2014 | Tumbleweed | PRC | Disposed | No |
| 10/02/2014 | Tumbleweed | PRC | Posted | Yes |
| 10/06/2014 | Tumbleweed | PRC | Posted | Yes |
| 10/08/2014 | Tumbleweed | PRC | Posted | Yes |
| 10/14/2014 | Tumbleweed | PRC | Dispose | Yes |
| 10/15/2014 | Tumbleweed | PRC | Dispose | Yes |
| 10/21/2014 | Tumbleweed | PRC | Dispose | No |
| 10/28/2014 | Tumbleweed | PRC | Posted | Yes |
| 10/29/2014 | Tumbleweed | PRC | Posted | Yes |
| 10/30/2014 | Tumbleweed | PRC | Dispose | No |
| 11/04/2014 | Tumbleweed | WRPS | Dispose | No |
| 11/04/2014 | Rabbit Feces | WRPS | Dispose | No |
| 11/05/2014 | Tumbleweed | PRC | Posted | Yes |
| 11/05/2014 | Tumbleweed | MSA | Posted | Yes |
| 11/10/2014 | Soil | MSA | Dispose | No |
| 11/10/2014 | Tumbleweed | PRC | Dispose | Yes |
| 11/10/2014 | Soil | PRC | Posted | No |
| 11/11/2014 | Tumbleweed | PRC | Dispose | Yes |
| 11/18/2014 | Tumbleweed | PRC | Dispose | Yes |
| 12/08/2014 | Tumbleweed | MSA | Dispose | No |

| DATE | INCIDENT | CONTRACTOR | RESPONSE | REPORTABLE* |
|------------|-------------|------------|----------|-------------|
| 12/15/2014 | Tumbleweed | MSA | Dispose | No |
| 12/15/2014 | Tumbleweed | PRC | Dispose | Yes |
| 12/18/2014 | Bunch Grass | PRC | Posted | No |
| 12/19/2014 | Tumbleweed | MSA | Dispose | Yes |
| 12/23/2014 | Tumbleweed | MSA | Posted | Yes |
| 12/30/2014 | Tumbleweed | MSA | Dispose | No |

*Threshold for reportable contamination is greater than 50,000 dpm/100cm²

While conducting radiological surveys, contaminated media were encountered and collected for analysis and/or disposal. Media found above action levels defined in the respective Contractor's radiological control manual are documented via the various contractor-reporting mechanisms such as Radiological Problem Reports, Problem Evaluation Requests, and/or Occurrence Reports. Table 3 summarizes the contamination found, location and the corresponding field readings.

Table 3. Summary of Report of Environmental Contamination Incidents (CY 2014)

| Date | Description | Area | Location | Field Reading (Beta/Gamma) |
|----------|---------------------|------|-------------------------------------|-----------------------------------|
| 01/06/14 | Tumbleweed | 200W | Plutonium Finishing Plant | 8,000 dpm/100 cm ² |
| 01/09/14 | Soil | 200E | 218-E-12B | 42,000 dpm/100 cm ² |
| 01/09/14 | Tumbleweed | 200W | 241-S/SX/SY Tank Farm perimeter | 2,000 dpm/100 cm ² |
| 01/13/14 | Tumbleweed | 200E | 218-E-12B Trench 94 | 600,000 dpm/100 cm ² |
| 01/20/14 | Animal Waste | 300 | 328 Building Pad | 597,000 dpm/100 cm ² |
| 01/21/14 | Tumbleweed | 200E | 2025E Liquid Effluent Facility | 40,000 dpm/100 cm ² |
| 01/22/14 | Tumbleweed | 200E | CSB-246-S Canister Storage Facility | 3,500 dpm/100 cm ² |
| 01/23/14 | Rabbit Feces | 200E | 241-C Tank Farm Perimeter | 70,000 dpm/100 cm ² |
| 01/27/14 | Tumbleweed | 200W | 241-S/SX/SY Tank Farm perimeter | 50,000 dpm/100 cm ² |
| 01/30/14 | Tumbleweed | 200E | 216-B-2-3 covered ditch | 65,000 dpm/100 cm ² |
| 01/30/14 | Speck | 200E | 241-B Tank Farm Perimeter | 40,000 dpm/100 cm ² |
| 01/30/14 | Soil | 200E | B/C Control Area perimeter | 500,000 dpm/100 cm ² |
| 02/04/14 | Tumbleweed Fragment | 200E | 241-BX/BY Tank Farm Perimeter | 55,000 dpm/100 cm ² |
| 02/18/14 | Tumbleweed Fragment | 200E | 241-BX/BY Tank Farm Perimeter | 60,000 dpm/100 cm ² |
| 02/20/14 | Soil | 200E | B/C Control Area perimeter | 46,000 dpm/100 cm ² |
| 02/24/14 | Soil | 200E | B/C Control Area perimeter | 30,000 dpm/100 cm ² |
| 02/27/14 | Rabbit Urine | 200E | 241-C Tank Farm | 150,000 dpm/100 cm ² |
| 03/04/14 | Tumbleweed | 200W | 241-T Tank Farm | 10,000 dpm/100 cm ² |
| 03/04/14 | Deer Mouse | 200E | 242-B/BL Perimeter | 10,000 dpm/100 cm ² |
| 03/05/14 | Soil | 200E | B/C Control Area | 1,000,000 dpm/100 cm ² |
| 03/06/14 | Soil | 200E | B/C Control Area | 42,000 dpm/100 cm ² |
| 03/11/14 | Soil | 200E | B/C Control Area | 100,000 dpm/100 cm ² |
| 03/11/14 | Soil | 200W | UPR-200-W-50 East of 241-SX | 20,000 dpm/100 cm ² |
| 03/12/14 | Rabbit Feces | 200E | 241-C Tank Farm | 85,000 dpm/100 cm ² |
| 03/12/14 | Tumbleweed | 200E | 241-C Tank Farm | 2,500 dpm/100 cm ² |
| 03/17/14 | Tumbleweed | 600 | 618-10 Burial Ground | 100,000 dpm/100 cm ² |
| 03/18/14 | Tumbleweed Fragment | 600 | 618-10 Burial Ground | 85,000 dpm/100 cm ² |
| 03/21/14 | Soil | 200E | 241-C Tank Farm | 50,000 dpm/100 cm ² |
| 03/26/14 | Tumbleweed Fragment | 600 | 618-10 Burial Ground | 140,000 dpm/100 cm ² |
| 03/26/14 | Mouse | 200W | Well 299-W23-19 | 3,270 dpm/100 cm ² |
| 03/27/14 | Soil | 200E | BC Controlled Area | 30,000 dpm/100 cm ² |
| 03/27/14 | Concrete | 100D | URMA 100-D-86:1 | 100,000 dpm/100 cm ² |
| 03/31/14 | Tumbleweed | 200W | Plutonium Finishing Plant | 70,000 dpm/100 cm ² |

| Date | Description | Area | Location | Field Reading (Beta/Gamma) |
|----------|-------------------|------|---|-----------------------------------|
| 04/01/14 | Soil | 200E | 241-C Tank Farm | 20,000 dpm/100 cm ² |
| 04/03/14 | Soil | 200W | 241-TX-155 Diversion | 100,000 dpm/100 cm ² |
| 04/08/14 | Mice | 200E | 241B-Tank Farm | 5,000 dpm/100 cm ² |
| 04/08/14 | Tumbleweed | 200E | East side of posted URMA 216-A-24 | 300,000 dpm/100 cm ² |
| 04/10/14 | Mice | 200E | 242-B/BL | 4,000 dpm/100 cm ² |
| 04/14/14 | Rabbit Feces | 200E | C Tank Farm | 100,000 dpm/100 cm ² |
| 04/14/14 | Bird Nest | 200E | 2025E Building at the ETF facilities | 40,000 dpm/100 cm ² |
| 04/14/14 | Bird Feces | 200E | 2025E Building at the ETF facilities | 8,000 dpm/100 cm ² |
| 04/15/14 | Mice | 200E | 242-B/BL | 1,500 dpm/100 cm ² |
| 04/16/14 | Tumbleweed | 200W | 241-S Tank Farm | 7,000 dpm/100 cm ² |
| 04/21/14 | Tumbleweed | 100K | Substation | 40,000 dpm/100 cm ² |
| 04/21/14 | Rabbit Feces | 200E | 241C Tank Farm | 150,000 dpm/100 cm ² |
| 04/22/14 | Mouse | 200E | 242-B/BL | 1,000 dpm/100 cm ² |
| 04/29/14 | Bird Nest | 200E | Nest on Crane inside the LERF Basins CA | 100,000 dpm/100 cm ² |
| 05/02/14 | Rabbit Feces | 200E | 241-C Tank Farm | 200,000 dpm/100 cm ² |
| 05/06/14 | Mouse | 100K | 105 KW | 3,000 dpm/100 cm ² |
| 05/08/14 | Mouse | 200E | 241B Tank Farm | 6,000 dpm/100 cm ² |
| 05/12/14 | Rabbit Feces | 200E | 241-C Tank Farm RMA-014 | 30,000 dpm/100 cm ² |
| 05/13/14 | Tumbleweed | 200E | Gate 810 at 200E perimeter fence | 300,000 dpm/100 cm ² |
| 05/13/14 | Bird Nest | 200E | Nest on Crane inside the LERF Basins CA | 102,000 dpm/100 cm ² |
| 05/21/14 | Bird Nest | 200E | 2025EA Effluent Treatment Facility | 30,000 dpm/100 cm ² |
| 05/21/14 | Soil | 200W | 241-U Tank Farm Perimeter | 20,000 dpm/100 cm ² |
| 05/26/14 | Bird Nest | 200E | 2025EA Effluent Treatment Facility | 60,000 dpm/100 cm ² |
| 05/27/14 | Soil | 600 | North end of Gable pond at 600-118 | 6000 dpm/100 cm ² |
| 05/28/14 | Tumbleweed | 200E | LERF perimeter fence | 15,000 dpm/100 cm ² |
| 05/29/14 | Rodent Feces | 200E | 241-C Tank Farm Perimeter | 50,000 dpm/100 cm ² |
| 05/30/14 | Soil/Animal Urine | 200W | 241-U Tank Farm Perimeter | 450,000 dpm/100 cm ² |
| 06/18/14 | Bird Feces | 200E | 289E Purgewater Storage (Modu-Tanks) | 73,000 dpm/100 cm ² |
| 06/18/14 | Rabbit Feces | 200E | 241-C Tank Farm | 35,000 dpm/100 cm ² |
| 06/24/14 | Bird Nest | 200E | 2025E Building at the ETF facilities | 3,000 dpm/100 cm ² |
| 06/26/14 | Animal Urine | 200E | 289E Purgewater Storage (Modu-Tanks) | 1,400,000 dpm/100 cm ² |
| 06/30/14 | Soil | 200E | 289E Purgewater Storage (Modu-Tanks) | 140,000 dpm/100 cm ² |
| 07/01/14 | Debris | 600 | 618-10 Field Remediation Project | 243,000 dpm/100 cm ² |
| 07/01/14 | Soil | 200E | 241B Tank Farm | 4,500 dpm/100 cm ² |
| 07/10/14 | Rabbit | 200E | 241C Tank Farm | 25,000 dpm/100 cm ² |
| 07/21/14 | Tumbleweed | 200W | 241S Tank Farm | 40,000 dpm/100 cm ² |
| 08/14/14 | Bird Nest | 100N | 105N Building | 60,000 dpm/100 cm ² |
| 09/03/14 | Tumbleweed | 200E | Trench 94 (Naval Reactor Trench) | 25,000 dpm/100 cm ² |
| 09/05/14 | Soil | 200W | 241U Tank Farm | 155,000 dpm/100 cm ² |
| 09/05/14 | Mouse Feces | 200W | 241U Tank Farm | 200,000 dpm/100 cm ² |
| 09/05/14 | Bait Station | 200W | 241U Tank Farm | 15,000 dpm/100 cm ² |
| 09/16/14 | Mouse | 200E | 2025ED | 5,000 dpm/100 cm ² |
| 09/16/14 | Tumbleweed | 200E | 218-E-5A | 20,000 dpm/100 cm ² |
| 09/16/14 | Tumbleweed | 200E | 216-B-35-42 | 20,000 dpm/100 cm ² |
| 09/17/14 | Tumbleweed | 200W | 216-S-17 Pond | 42,000 dpm/100 cm ² |
| 09/18/14 | Tumbleweed | 200E | 216-B-2-1 Ditch | 5,000 dpm/100 cm ² |
| 09/18/14 | Tumbleweed | 200E | 218-E-12A | 10,000 dpm/100 cm ² |
| 09/18/14 | Soil | 200W | 241S Tank Farm | 100,000 dpm/100 cm ² |
| 09/29/14 | Tumbleweed | 200W | 218-W-4B Burial Ground | 1,800,000 dpm/100 cm ² |
| 10/02/14 | Tumbleweed | 200E | 218-E-12A Burial Ground | 1,200,000 dpm/100 cm ² |
| 10/06/14 | Tumbleweed | 200E | 218- E- 12A Burial Ground | 3,600,000 dpm/100 cm ² |
| 10/08/14 | Tumbleweed | 200E | 218- E- 12A Burial Ground | 2,000,000 dpm/100 cm ² |
| 10/14/14 | Tumbleweed | 200W | 218-W-4A Burial Ground | 1,900,000 dpm/100 cm ² |
| 10/15/14 | Tumbleweed | 200W | 218-W-4A Burial Ground | 420,000 dpm/100 cm ² |

| Date | Description | Area | Location | Field Reading (Beta/Gamma) |
|----------|--------------|------|--|-----------------------------------|
| 10/21/14 | Tumbleweed | 200E | 218-E-12A Burrial Ground Trenches 35-42 | 12,000 dpm/100 cm ² |
| 10/28/14 | Tumbleweed | 200E | 218-E-2 and 218-E-5 Burial Ground | 600,000 dpm/100 cm ² |
| 10/29/14 | Tumbleweed | 200E | 218-E-2, E-5, E-5A, E-9 Burial Grounds | 1,200,000 dpm/100 cm ² |
| 10/30/14 | Tumbleweed | 200E | UPR-200-E-77 outside 241-B-154 Diversion Box | 15,000 dpm/100 cm ² |
| 11/04/14 | Tumbleweed | 200E | 241C Tank Farm Perimeter | 49,400 dpm/100 cm ² |
| 11/04/14 | Rabbit Feces | 200E | 241C Tank Farm Perimeter | 5,000 dpm/100 cm ² |
| 11/05/14 | Tumbleweed | 200E | 218-E-4 Burial Ground | 138,000 dpm/100 cm ² |
| 11/05/14 | Tumbleweed | 200W | 241U Tank Farm Perimeter | 200,000 dpm/100 cm ² |
| 11/10/14 | Soil | 200E | Emergency Plot 60 West Side of B-Plant | 3,000 dpm/100 cm ² |
| 11/10/14 | Tumbleweed | 200E | 216-A-34 Crib | 90,000 dpm/100 cm ² |
| 11/10/14 | Soil | 200W | 216-U-10 Pond | 48,000 dpm/100 cm ² |
| 11/11/14 | Tumbleweed | 200E | 216-A-8 Crib | 300,000 dpm/100 cm ² |
| 11/18/14 | Tumbleweed | 200W | 216-S-6 Crib | 240,000 dpm/100 cm ² |
| 12/08/14 | Tumbleweed | 200W | 241SX Tank Farm Perimeter | 6,000 dpm/100 cm ² |
| 12/15/14 | Tumbleweed | 200W | 200W Fenceline Perimeter | 20,000 dpm/100 cm ² |
| 12/15/14 | Tumbleweed | 200E | 216-B-20 and 216-B-31 Cribs | 180,000 dpm/100 cm ² |
| 12/18/14 | Bunch Grass | 200E | 218-E-2, E-5, E-5A, E-9 Burial Grounds | 30,000 dpm/100 cm ² |
| 12/19/14 | Tumbleweed | 200W | 200W Fenceline Perimeter | 69,000 dpm/100 cm ² |
| 12/23/14 | Tumbleweed | 200W | 221T Perimeter | 400,000 dpm/100 cm ² |
| 12/30/14 | Tumbleweed | 200E | 241BY Tank Farm Perimeter | 49,500 dpm/100 cm ² |

Abbreviations:cm² = Square Centimeter

dpm = Disintegrations per minute.

ETF = Effluent Treatment Facility

IBC = Integrated Biological Control Program

LERF = Liquid Effluent Retention Facility

3.1 Waste Information Data System (WIDS) Summary

Waste sites that were interim closed or received final close out during the fourth quarter of CY 2014 are listed below (Table 4).

Table 4. WIDS Sites Change in Closed Out Status

| Code | Reclassification | Reclassified On |
|----------|--------------------|-----------------|
| 100-N-84 | Interim Closed Out | 10/1/2014 |
| 300-287 | Final Closed Out | 11/19/2014 |
| 300-284 | Final Closed Out | 12/16/2014 |

The *Administrative Interface Agreement between CH2M HILL Plateau Remediation Company (CHPRC) and Washington Closure Hanford (WCH), Washington River Protection Solutions (WRPS), Mission Support Alliance (MSA), and Pacific Northwest National Laboratory (PNNL) for Hanford Environmental Data Integration (HNF-48562)*, states that an area that is posted as a soil contamination area (SCA) or CA and not located on an existing WIDS site should be added to the WIDS database as a new waste site if it cannot be cleaned up and down-posted within 90 days.

Table 5 summarizes the contamination incidents by area and media type for CY 2014. The column "Other" in this table is for miscellaneous items (e.g., clothing, equipment, etc.).

4.0 BIOTIC TRANSPORT

Waste management, environmental protection, safety, and as low as reasonably achievable (ALARA) practices on the Hanford Site require that whenever possible, radiological contamination exposed to the environment be cleaned up or stabilized so that it is not easily transported from posted radiological control areas. 10 CFR 835 requires that appropriate controls be maintained and verified which prevent the inadvertent transfer of removable contamination to locations outside of radiological areas under normal operating conditions.

In response to a U.S. Department of Energy, Richland Operations Office (DOE-RL) concern, a centralized Integrated Biological Control (IBC) Program to control the spread of contamination caused by biotic vectors was established. The IBC provides vegetation control through herbicide application, mechanical removal, and vegetation removal in areas of accumulation. Trapping, baiting, fumigation, and the application of pesticides are used to control the spread of contamination by animals and insects.

Table 5. Contamination Incidents by Area and Type
(CY 2014)

| Area/Waste Site Type | Vegetation | Animals | Soil/Specks | Other | Total |
|----------------------------------|-------------------|----------------|--------------------|--------------|--------------|
| 200 East Tank Farms | 3 | 14 | 3 | 0 | 20 |
| 200 West Tank Farms | 5 | 2 | 4 | 0 | 11 |
| 200 East Burial Grounds | 12 | 0 | 1 | 0 | 13 |
| 200 West Burial Grounds | 3 | 0 | 0 | 0 | 3 |
| 200 East Cribs, Ponds, & Ditches | 7 | 0 | 0 | 0 | 7 |
| 200 West Cribs, Ponds, & Ditches | 2 | 0 | 1 | 0 | 3 |
| 200 East Fence Lines | 3 | 1 | 1 | 0 | 5 |
| 200 West Fence Lines | 5 | 0 | 0 | 0 | 5 |
| 200 East Roads & Rail Roads | 0 | 0 | 0 | 0 | 0 |
| 200 West Roads & Rail Roads | 0 | 0 | 0 | 0 | 0 |
| 200 East Unplanned Release Sites | 1 | 3 | 7 | 0 | 11 |
| 200 West Unplanned Release Sites | 0 | 0 | 1 | 0 | 1 |
| 200 East Underground Pipelines | 0 | 0 | 0 | 0 | 0 |
| 200 West Underground Pipelines | 0 | 0 | 0 | 0 | 0 |
| Cross-Site Transfer Line | 0 | 0 | 0 | 0 | 0 |
| 600 Area Burial Grounds | 3 | 0 | 0 | 0 | 3 |
| 200 East Miscellaneous | 1 | 0 | 1 | 0 | 2 |
| 200 West Miscellaneous | 2 | 1 | 1 | 0 | 4 |
| 200 East LERF/ETF | 2 | 9 | 1 | 0 | 12 |
| 200 North Area | 0 | 0 | 0 | 0 | 0 |
| 100 Areas | 1 | 2 | 0 | 1 | 4 |
| 300 Areas | 0 | 1 | 0 | 0 | 1 |
| 400 Areas | 0 | 0 | 0 | 0 | 0 |
| 600 Areas | 0 | 0 | 1 | 1 | 2 |
| 1100 Areas | 0 | 0 | 0 | 0 | 0 |
| TOTALS | 50 | 33 | 22 | 2 | 107 |

4.1 Deep-Rooted Vegetation Vectors

Deep-rooted vegetation (e.g., tumbleweeds, sagebrush) growing over underground sources of radionuclides may selectively uptake contaminants into their tissues. When radionuclides are transported from roots to aerial portions of the plant, surface contamination may result. This surface contamination poses a potential risk of environmental transport or human contact and can be very costly to clean up and/or stabilize.

A review of radiological reports (Radiological Problem Reports, Problem Evaluation Reports, Daily Activity Reports, Occurrence Reports, IBC monthly reports, and Radiological Survey Records) identified twenty-two incidents of contaminated vegetation during the fourth quarter of CY 2014.

Table 6 summarizes the number of incidents of contaminated vegetation found and the range of activity encountered between CY 1995 and CY 2014. It has been determined through field readings that the dose rate for meter readings on tumbleweeds having greater than 6,000,000 dpm/100 cm² ranges from approximately 2.0 to 50 mrad/hr.

Figure 1 depicts graphically, the average number of contaminated vegetation incidents encountered quarterly between CY 1995 and CY 2013 and the number of incidents occurring quarterly during CY 2014. Figure 2 displays the average number of contaminated vegetation incidents encountered monthly between CY 1995 and CY 2013 and the number of incidents occurring monthly during CY 2014.

4.2 Animal Vectors

Biotic transport of radiological contamination through animal (insects, mice, etc.) vectors has been a major cause of contamination spread throughout the Hanford Site for a number of years. A review of radiological reports (Radiological Problem Reports, Problem Evaluation Reports, Daily Activity Reports, Occurrence Reports, IBC monthly reports, and Radiological Survey Records) during this reporting period identified one incident of a contaminated animal. Table 7 shows the number of contaminated animal related incidences found and the range of activity encountered during CY 1995 through CY 2014. It should be noted that the dose rates for meter readings greater than 6,000,000 dpm/100 cm² or 1,000,000 dpm/PA detected in the animals and insects could range as much as approximately 1.5 to 15 mrad/hr.

Figure 3 summarizes the average number of contaminated animal incidents encountered quarterly from CY 1995 through CY 2013 and the number of incidents occurring quarterly during CY 2014. This graphic also demonstrates the decreased activity of animals during the winter.

Figure 4 displays the average number of contaminated animal incidents encountered monthly between CY 1995 and CY 2013 and the number of incidents occurring monthly during CY 2014.

4.3 Integrated Biological Control Program

The IBC Program implements the requirements of DOE/RL-98-77 Rev 0, *"Spread of Radioactive Contamination Due to Biological Transport at the Hanford Site."*

Radioactive contamination control within facility perimeters is the responsibility of the affected facility landlord and the facility Radiation Protection organization. However, by agreement with the affected facility landlord (i.e., Administrative Interface Agreement) and the facility Radiation Protection organizations, the IBC program may take actions inside facility perimeters that are consistent with the IBC mission and the Hanford Strategic Plan. The agreement establishes the applicable contract and radiological program controls.

IBC includes any activity taken to prevent, limit, clean up, or remediate potential environmental, health and safety, or workplace quality impacts from or to plants, animals, or the native environment. This includes the control of noxious weeds, industrial weeds, other vegetation, animal pests, and clean-up of vegetation and animal remains (windblown tumbleweeds, animal feces, animal carcasses), for the purposes of protecting employees, the public, and Site cultural and environmental (including biological) resources.

Table 6. Yearly Summary of Contaminated Vegetation Incidents

| Year | Number of Incidents | Maximum Activity (dpm)B/G ^a | Minimum Activity (dpm)B/G |
|------|---------------------|--|------------------------------|
| 2014 | 50 | 3,600,000/100cm ² | 2,000/100cm ² |
| 2013 | 35 | 1,200,000/100cm ² | 5,000/100cm ² |
| 2012 | 18 | 2,400,000/100cm ² | 4,000/100cm ² |
| 2011 | 29 | >1,000,000/100cm ² | 5,000/100cm ² |
| 2010 | 31 | >1,000,000/100cm ² | 7,000/100cm ² |
| 2009 | 88 | >6,000,000/100cm ² | 2,500/100cm ² |
| 2008 | 127 | >6,000,000/100cm ² | 6,000/100cm ² |
| 2007 | 62 | 2,400,000/100cm ² | 3,000/100cm ² |
| 2006 | 75 | 5,397,000/100cm ² | 10,000/100cm ² |
| 2005 | 66 | 1,800,000/100cm ² | 6,000/100cm ² |
| 2004 | 60 | 540,000/100cm ² | 4,000/100cm ² |
| 2003 | 32 | 3,600,000/100cm ² | 6,000/100cm ² |
| 2002 | 16 | 1,800,000/100cm ² | 3,000/100cm ² |
| 2001 | 31 | >6,000,000/100cm ² ^b | 6,000/100cm ² |
| 2000 | 65 | >1,000,000/100cm ² | 5,000/100cm ² |
| 1999 | 84 | >1,000,000/100cm ² | 8,000/100cm ² |
| 1998 | 51 | >1,000,000/100cm ² | 4,000/100cm ² |
| 1997 | 42 | >1,000,000/PA | 2,500/PA |
| 1996 | 21 | 800,000/PA | 6,000/PA |
| 1995 | 12 | 250,000/PA | 2,000/PA |

^a The reporting of the activity changed in 1998 to meet the requirements identified in each contractors radiological control manuals. The activity is reported in dpm per probe area prior to 1998 and in dpm per 100 cm² since 1998 (unless otherwise noted e.g., for a speck or insect).

^b>6,000,000/100 cm² being used in 2001 and subsequent years includes a correction factor of 6 to correct from probe area to 100 cm² which was not used in previous years.

B/G = Beta/Gamma

dpm = Disintegrations per minute

PA = Probe Area

Figure 1. Contaminated Vegetation Incidents

NOTE: Historical data also shows range of the number of contaminated vegetation incidents reported.

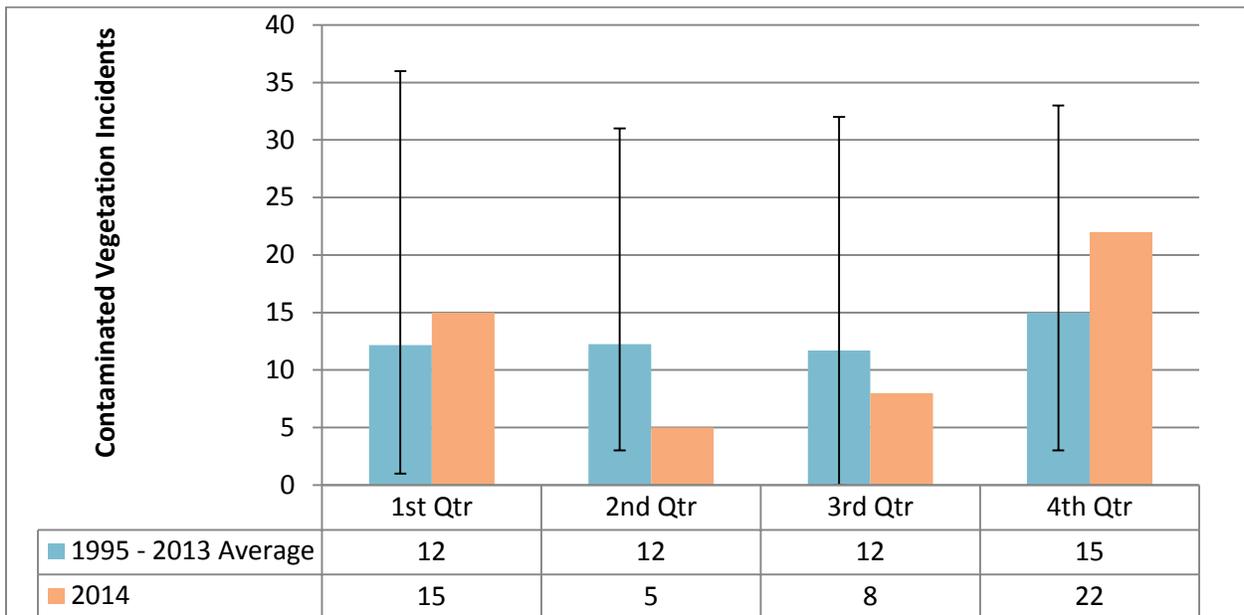


Figure 2. Contaminated Vegetation Incidents by Month

NOTE: Historical data also shows range of the number of contaminated vegetation incidents reported.

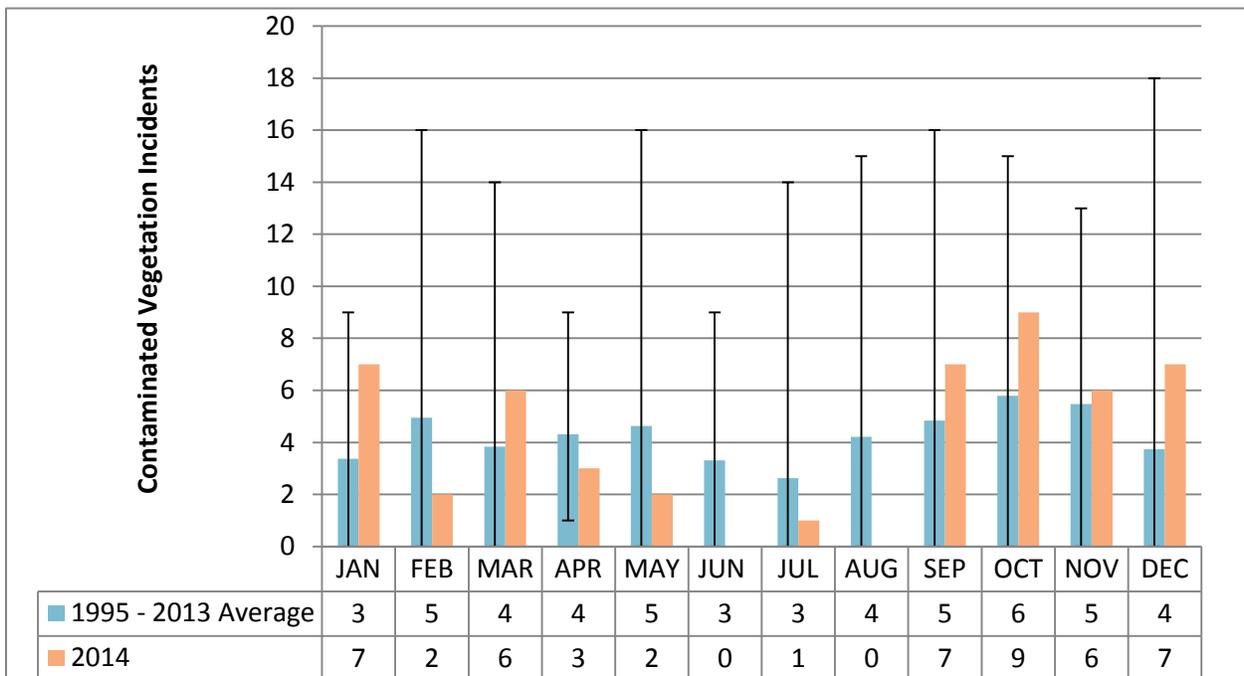


Table 7. Yearly Summary of Contaminated Animal/Insect Related Incidents.

| Year | Number of Incidents | Maximum Activity (dpm)B/G ^a | Minimum Activity (dpm)B/G |
|------|---------------------|--|------------------------------|
| 2014 | 33 | 1,400,000/100cm ² | 1,000/100cm ² |
| 2013 | 48 | 1,800,000/100cm ² | 500/100cm ² |
| 2012 | 13 | >1,000,000/100cm ² | 7,000/100cm ² |
| 2011 | 19 | >1,000,000/100cm ² | 18,000/100cm ² |
| 2010 | 21 | 1,950,000/100cm ² | 3,000/100cm ² |
| 2009 | 26 | >1,000,000/100cm ² | 20,000/100cm ² |
| 2008 | 30 | 3,600,000/100cm ² | 1,500/100cm ² |
| 2007 | 6 | 600,000/100cm ² | 20,000/100cm ² |
| 2006 | 17 | >1,000,000/100cm ² | 4,000/100cm ² |
| 2005 | 13 | >1,000,000/100cm ² | 4,000/100cm ² |
| 2004 | 20 | 649,000/100cm ² | 1,500/100cm ² |
| 2003 | 26 | 1,200,000/100cm ² | 900cpm |
| 2002 | 10 | 42,000/100cm ² Alpha ^b | 2,500/100cm ² |
| 2001 | 10 | >6,000,000/100cm ² ^c | 1,000/PA |
| 2000 | 13 | 300,000/100cm ² | 3,000/100cm ² |
| 1999 | 17 | 500,000/100cm ² | 2,000/PA |
| 1998 | 46 | >1,000,000/100cm ² | 4,000/100cm ² |
| 1997 | 27 | >1,000,000/PA | NR |
| 1996 | 44 | >1,000,000/PA | 500/PA |
| 1995 | 28 | >1,000,000/PA | 2,000/PA |

^a The reporting of the activity changed in 1998 to meet the requirements identified in each contractor's radiological control manuals. The activity is reported in dpm per probe area prior to 1998 and in dpm per 100 cm² since 1998 (unless otherwise noted e.g., for a spec or insect). Activity reported as beta/gamma unless otherwise noted.

^b No Beta/Gamma reported on this incident.

^c >6,000,000/100 cm² being used in 2001 and subsequent years includes a correction factor of 6 to correct from probe area to 100 cm² which was not used in previous years.

B/G = Beta/Gamma

dpm = disintegrations per minute

NR = No activity above background recorded in the field

PA = Probe Area

Figure 3. Contaminated Animal/Insect Incidents by Quarter

NOTE: Historical data also show range of the number of contaminated animal incidents reported.

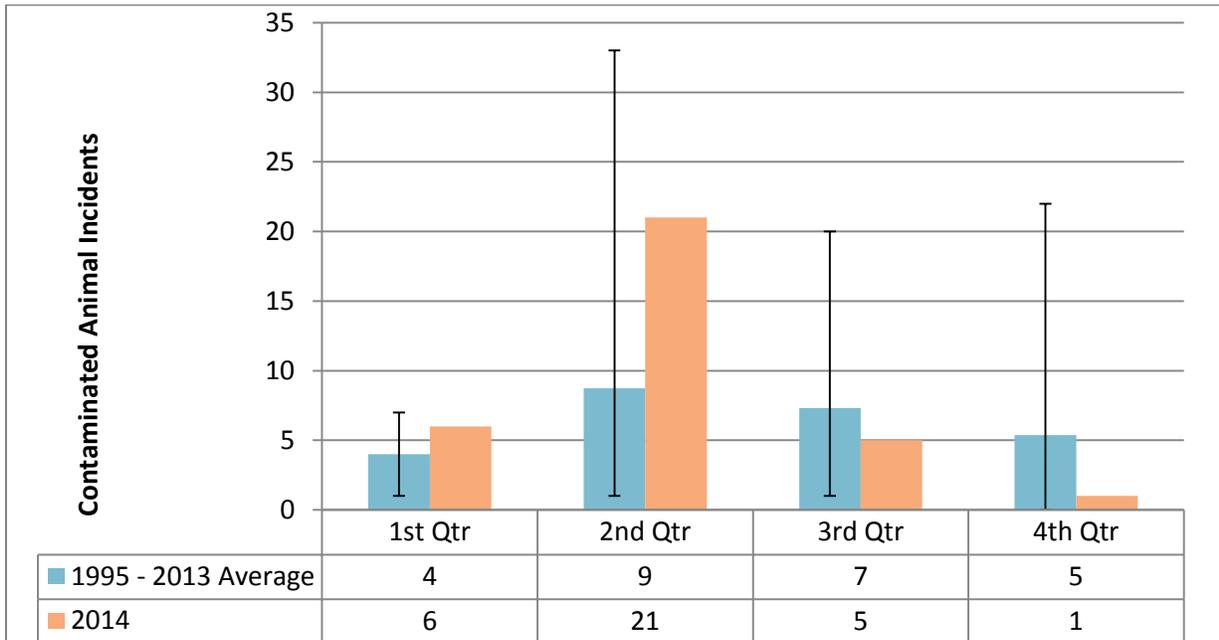
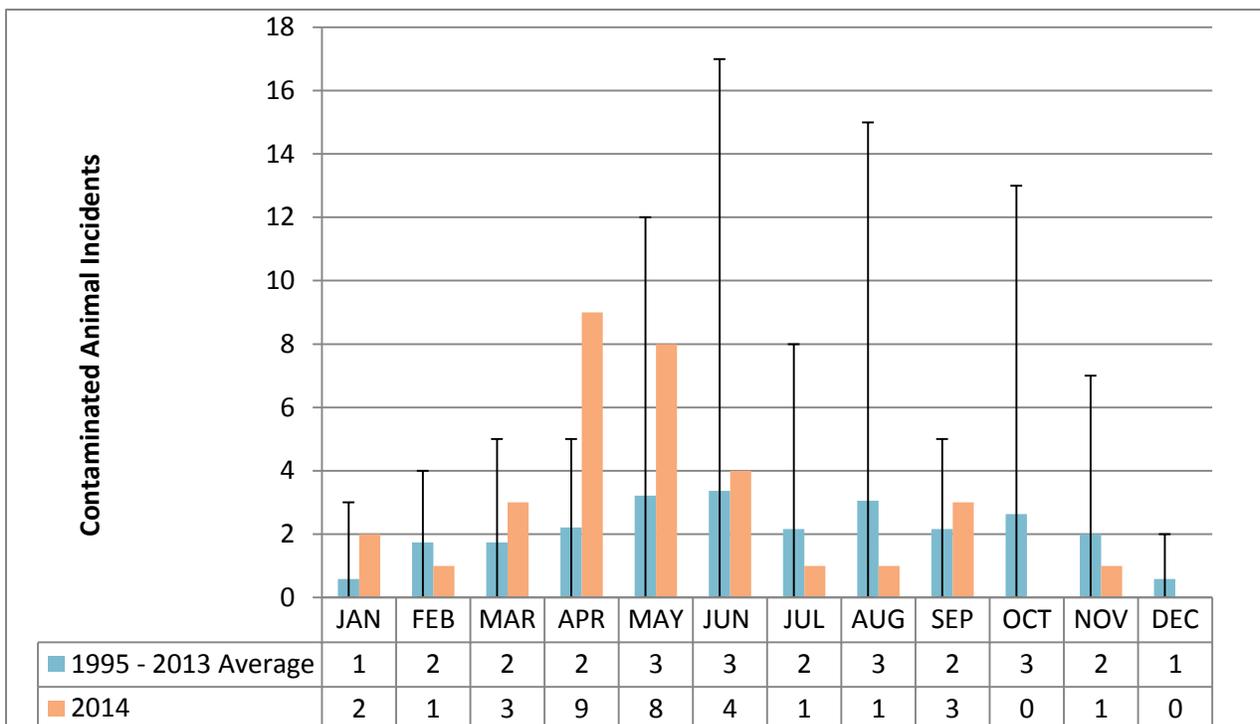


Figure 4. Contaminated Animal/Insect Incidents by Month

Note: Historical data also shows range of the number of contaminated animal incidents reported.



4.3.1 Surveillance

There was one animal related contamination incident reported during the fourth quarter of CY 2014, compared to a fourth quarter average of five for CY 1995 through CY 2013. In addition, there were twenty-two vegetation related incidents, which was higher than the fourth quarter average of fifteen for CY 1995 through CY 2013. The radioactivity monitoring and surveillance activities for this quarter indicated that the control of contaminated vegetation-related material was maintained and was consistent with incidents reported during the same period in previous years.

4.3.2 Clean-Up

The IBC continued removal and cleanup of tumbleweeds in the operations areas in CY 2014. Cleanup and stabilization activities during the months of October and November of CY 2014 included the following (December data not available by publish date):

- 19 non-regulated compactor truckloads of tumbleweeds were taken to the 200-West burn pit for disposal.
- Zero (0) regulated compactor truckloads of tumbleweeds were taken to the ERDF for disposal.

4.3.3 Control

In CY 2009, the IBC Program was revised and implemented to rotate herbicides used to control deep-rooted vegetation to prevent vegetation from developing a chemical resistance from the usage of the same herbicide chemistry over a period of years. Test plots were set up outside the 200 East and 200 West Areas to test several herbicides and their application rates. The herbicides that showed the greatest effect were used for CY 2014. New products are being tested so the most effective herbicide is used on the Hanford Site.

Highlights for this quarter excluding December include (December data not available by publish date):

- Approximately 538 hectares (1330 acres) of Hanford Site land were treated with herbicides.
- 175 pest control responses for Hanford Site facilities were conducted.
- 3,406 bait stations and animal control devices were in place.
- 220 animals were captured.

4.3.4 Noxious Weed Control

The DOE-RL is obligated by the *Agriculture Risk Protection Act of 2000* to control noxious weeds, and each DOE facility is required to have a noxious weed management program for compliance with federal, state, and local laws. The Washington Administrative Code ([WAC](#) 16-750, *State Noxious Weed List and Schedule of Monetary Penalties*, and Revised Code of Washington ([RCW](#) 17.10, *Noxious Weeds – Control Boards*, require all landowners to control noxious weeds on their property and impose specific penalties for failure to do so. The Washington State Noxious Weed laws are enforced by the county Noxious Weed Control Boards.

Noxious weeds are treated with herbicide applications when found on industrial areas such as waste sites, parking lots, and road shoulders. However, noxious weeds treatment outside of active industrial areas has been limited. Recent decisions regarding application of the [*National Environmental Policy Act of 1969*](#) (NEPA) to noxious weed control have affected the ability to control weeds. Resolution to the issues is currently being sought.

In 1996, when the active noxious weed program began on the Hanford Site, NEPA requirements were investigated and it was determined that the legally required noxious weed control actions were part of routine maintenance and covered under the Site-Wide Categorical Exclusion (SWCX); which did not require ecological and cultural clearances.

In CY 2010, the NEPA determination in regards to noxious weed control (spraying) was re-evaluated, and it was determined that site specific and activity specific NEPA evaluations were required, with the exclusion of the active industrial areas. These areas were covered under the existing SWCX. These SWCXs were eliminated on December 31, 2012, and replaced by Annual Categorical Exclusions (CXs). Herbicide applications by MSA Biological Controls for invasive plants and noxious weeds are currently addressed by the following two NEPA documents depending upon the scope of the work:

4.3.4.1 [DOE/CX-00111](#), Rev 0, MSA Annual Categorical Exclusion for Routine Maintenance and Custodial Services under 10 CFR 1021, Subpart D, Appendix B, B1.3

- Localized vegetation and pest control. Localized is defined as landscaped areas around buildings, structures, and infrastructures maintained for visual aesthetics.
- Localized erosion control and soil stabilization measures (i.e., reseeded, gabions, grading, and revegetation).
- Cultural and ecological resource reviews and clearances are required to apply the Annual CX to work activities.
- Other considerations in accordance with the Work Management System (i.e., Environmental Activity Screening Form, Automated Job Hazards Analysis, etc.) are required to perform the work.

4.3.4.2 [DOE/EA-1728-F](#), Environmental Assessment for Integrated Vegetation Management on the Hanford Site, Richland, Washington

- Application of physical, chemical, biological, prescribed burning, and revegetation methods to control invasive plants and noxious weeds.
- Includes vegetation management in radiological and chemical waste management areas (i.e., tank farms, solid waste burial grounds and landfills, liquid waste ponds, ditches, cribs, and unplanned release sites, infrastructure areas (i.e., roadways, railways, power lines, rights-of-way, and fence lines), and rangelands.
- Cultural and ecological resource reviews and clearances are required prior to performing work.

- Vegetation management conducted to reduce or eradicate invasive plants and noxious weeds, minimize biological uptake and transport of contaminants, reduce or eliminate wildfire hazards, restore and preserve native and other desirable plant communities and wildlife habitat, and protect natural, cultural, and ecological resources.

Zero acres of herbicide application for noxious weeds occurred during the reporting period. For a detailed description of the noxious weeds found on the Hanford Site, refer to the [Hanford Site Environmental Report](#).

4.3.5 Site Restoration

Zero (0) acres of grass seeding was performed during the reporting period.

5.0 SUMMARY

There were 151 routine outdoor radiological surveys reported as completed during the quarter in the 200, 300, and 600 Areas. Of the 151 surveys reported, 84 were performed by CHPRC, 45 were performed by WRPS, 6 were performed WCH, and 16 were performed by MSA.

During the fourth quarter of CY 2014, there were 22 incidents of contaminated vegetation (tumbleweeds and bunch grass), 1 incident of contaminated animal-related material, and 2 incidents of soil-related contamination. These numbers correspond to 7 incidents of contaminated vegetation, 1 incident of contaminated animal related material, and 4 soil contamination incidents during the same reporting period in CY 2013. Levels of activity during the fourth quarter ranged from 3,000 dpm/100 cm² to 3,600,000 dpm/100 cm² beta/gamma.

6.0 ANNUAL RADIOLOGICAL SURVEYS

6.1 CH2M HILL Plateau Remediation Company

Outdoor radiological waste sites under the responsibility of CHPRC are radiologically surveyed at least once per year. Surveys that are more frequent are performed, if warranted, to provide assurance that contamination and migration controls are effective. Visual inspections for housekeeping, proper posting, subsidence, animal or plant intrusion, etc., are also performed, at a minimum, on an annual frequency.

CHPRC Site Names

- 100-K-1, 119-KW French Drain, 119-KW Exhaust Air Sample Building French Drain, 100-K-45
- 100-K-100, Radioactive Material Area Remaining After 107-KW Basin Removal, 116-KW-3 Remaining
- 100-K-57, 107-KE Drainage Ditch
- 100-K-61, 117-KW Filter Building
- 100-K-63, 100-KW Floodplain, 100-K Flood Plain Contamination Area
- 100-K-64, 100-KE Floodplain, 100-KE Flood Plain Contamination Area

CHPRC Site Names

- 100-K-81, Contamination Area West of 116-K-3
- 100-K-99, Radioactive Material Area Remaining After 107-KE Basin Removal, 116-KE-4 Contaminated Soil and Items
- 200-E PD 200-E Powerhouse Ditch, 200 East Powerhouse Pond
- 200-E-102, Contaminated Soil Trench
- 200-E-103, Radiologically Controlled Area - South Side of PUREX, PUREX Stabilized Area
- 200-E-105, Soil Contamination Area on the 216-B-61 Crib
- 200-E-107, Contamination Area East of PUREX, PUREX E Field
- 200-E-109, Contaminated Tumbleweed Accumulation, Contamination Spread in Northeast Corner of 200 East Area
- 200-E-110, Contaminated Tumbleweed Dump Site
- 200-E-111-PL, Encased Pipeline from 241-ER-151 Diversion Box to 241-C Tank Farm and 244-AR Vault; 3-38 Encasement, V108/V837/8618/8653/8901PAS
- 200-E-112; B Plant Process Sewers, 2904-E-1- Pipeline from B Plant to 207-B Retention Basin; 2904-E-2 - Pipeline from B Plant to 207-B or 216-B Ditches
- 200-E-113; Pipeline from PUREX to 216-A-30 Crib, 216-A-42C Valve Box
- 200-E-114-PL, Pipeline from 241-BY Tank Farm to 241-C Tank Farm and BC Cribs Trenches, 2805-E1, 2805-E2, 216-BC-2805
- 200-E-115; Contamination Area East of 241-C Tank Farm
- 200-E-116-PL, Pipelines from 241-B-154 Diversion Box to 241-C-151 and 241-C-152 Diversion Boxes, Direct Buried Pipeline, V111/V210/V130, 8902
- 200-E-117, Contamination Zone South of B Plant
- 200-E-118, 216-B-3 Diverter Station and Shack, Main Diverter Structure #3
- 200-E-121, Soil Contamination Area East and West of Baltimore Avenue
- 200-E-122, Construction Forces Bullpen, CF Bullpen, Equipment Storage Yard
- 200-E-123, Contamination Area South of 216-B-2 Stabilized Ditches.
- 200-E-124, URM on East Side of 275-EA
- 200-E-125, Contamination Area Northwest of 244-AR Building.
- 200-E-126, Underground Pipeline from 207-B to 216-B-3 Ditch and B Pond Disposal System
- 200-E-126, Underground Pipeline from 207-B to 216-B-3 Ditch and B Pond Disposal System
- 200-E-127, PUREX Cooling Water Line, Pipeline from PUREX to Gable and B-Ponds (216-A-25 and 216-B-3)
- 200-E-127, PUREX Cooling Water Line, Pipeline from PUREX to Gable and B-Ponds (216-A-25 and 216-B-3)
- 200-E-128, Radioactive Contamination "Hot Spot" Under Gravel Road
- 200-E-129, Stabilized Area on East Side of B Plant Railroad Cut

CHPRC Site Names

- 200-E-130, Stabilized Area on West Side of B Plant Chemical Spur
- 200-E-135, Contamination Area South of 241-C Tank Farm
- 200-E-139, Contamination Area North of C Farm
- 200-E-14, 216-BC-201 Siphon Tank, 216-B-201, Inactive Miscellaneous Underground Storage Tank (IMUST)
- 200-E-142, Paint Brush Cleaning Station
- 200-E-145-PL, Interplant Transfer Line, Tank Farm Transfer Line V228, Transfer Pipeline from 241-CR-153 to 241-ER-153, 241-ER-152 and 241-ER-151
- 200-E-147-PL, Interplant Transfer Line, Tank Farm Transfer Line PAS-244, Transfer Line from 244-CR-TK-003 to 241-ER-153
- 200-E-149-PL, Tank Farm Transfer Line V175, Direct Buried Transfer Line from 241-C-252 to 201-C Hot Semi Works, Tank Farm Pipeline
- 200-E-150-PL, Tank Farm Transfer Line 8900, Direct Buried Transfer Line from 244-CR-TK-003 to 201-C Hot Semi Works Valve Box, Tank Farm Pipeline
- 200-E-153-PL, Tank Farm Transfer Line V108/812, Direct Buried Transfer Line from 241-C-151 to 244-AR-TK-002, Tank Farm Pipeline
- 200-E-156-PL, 216-C-1 Pipeline, Pipeline from 201-C to 216-C-1
- 200-E-157-PL, 216-C-10 Pipeline, Pipeline from 201-C to 216-C-10 Crib
- 200-E-158-PL, 216-A-1 Pipeline, Pipeline from Sample Pit #3 to 216-A-1 Crib
- 200-E-159-PL, Pipeline from 203-A to 216-A-28 Crib
- 200-E-160-PL, Pipeline from 270-E-1 to 216-B-12 Crib, V219
- 200-E-161-PL, Pipeline from 221-BB to 216-B-55 Crib, V841
- 200-E-162-PL, Pipeline from 221-BB to 216-B-62 Crib, V842, Lateral Line to 216-B-12 crib #2
- 200-E-163-PL, Pipeline from BCS Diverting Pit to 216-B-64 Retention Basin
- 200-E-164-PL, Pipeline to 216-A-8 Crib, Pipeline between the 216-A-8 Control Structure and the 216-A-508 Control Structure
- 200-E-165-PL, Pipeline to 216-A-24 Crib
- 200-E-166-PL, Pipeline to 216-A-34 Ditch
- 200-E-167-PL, Underground pipelines from 244-A Lift Station to 241-A-A and 241-A-B Valve Pits, Lines SN-215 and SN-216
- 200-E-168-PL, Underground Pipeline to 216-A-3
- 200-E-28, 221-B Building Steam Condensate Release
- 200-E-29, Unplanned Release from 241-ER-152 Diversion Box
- 200-E-32, 226-B Pad East Side 90-Day Waste Accumulation Area
- 200-E-41, Stabilized Hot Semiworks Area, UN-216-E-38, Strontium Semi-Works Stabilized Area

CHPRC Site Names

- 200-E-43, Tank Car Storage Area, Regulated Equipment Storage Area, TC-4 Spur Tank Car Storage Area
- 200-E-44, PUREX Railroad Cut
- 200-E-45, HI Shaft, Health Instrument Shaft, Contaminated Pump Run-in Caisson
- 200-E-53, Contaminated Zone Adjacent to 218-E-12B and 218-E-8, Overground Storage Area, Above Ground Storage Area
- 200-E-54, Liquid Release to the Environment from PUREX Deep Filter Bed #1
- 200-E-56, 241-C Waste Line Leak adjacent to 201-C, Waste Line Leak #1
- 200-E-57, 241-C Waste Line Leak east of 201-C, Waste Line Leak #2
- 200-E-58, 216-A-5 Neutralization Tank, Tank A5, IMUST
- 200-E-6, Septic Tank, Sanitary Sewer Repair and Replacement 2607-E4
- 200-E-69, Line #8801 Steam Condensate, Miscellaneous Stream #56, Injection Well (A)
- 200-E-88, B Plant Yard Steam Condensate, Miscellaneous Stream #3
- 200-E-91, B Plant Yard Steam Condensate, Miscellaneous Stream #6
- 200-E-92, B Plant Yard Steam Condensate, Miscellaneous Stream #7
- 200-E-97, 212B Building Steam Condensate, Miscellaneous Stream #470
- 200-W-1, REDOX Mud Pit West
- 200-W-100, Encased Pipeline from 241-UX-154 to 241-SX-152 Diversion Box, lines 4700, 4701, 4853, V762, V503 and V505
- 200-W-102, Pipeline from Laundry/Powerhouse to 216-U-14 Ditch
- 200-W-104, 2714-U Building, UO3 Storage Warehouse, 2714-U Foundation
- 200-W-105, Encased Transfer Line Between 241-UX-154 Diversion Box and 241-TX Tank Farm; encased pipeline
- 200-W-106, Soil Contamination Area Adjacent to 200-W-55
- 200-W-107, Miscellaneous Stream #685, 222-U Building Stormwater Runoff
- 200-W-108, Miscellaneous Stream #687, 222-U Building Stormwater Runoff
- 200-W-109, Miscellaneous Stream #521, 222-U Building Stormwater Runoff
- 200-W-110, Miscellaneous Stream #393
- 200-W-111, Miscellaneous Stream #394, 222-U Building Stormwater Runoff
- 200-W-114, Miscellaneous Stream #55
- 200-W-125, 216-Z-1 Ditch Replacement Pipeline
- 200-W-127, Surface Stabilized Area East of UPR-200-W-29/UPR-200-W-97 (UN-216-W-5)
- 200-W-128, Underground Radioactive Material Area East of 218-W-4A
- 200-W-129-PL, Encasement Containing Lines V399, V405, and V411

CHPRC Site Names

- 200-W-130-PL, V445, V663, V601, V416; Pipeline from 241-T-151 Diversion Box to 241-U-151 Diversion Box
- 200-W-131-PL, V601, Spur to 241-TX Tank Farm
- 200-W-132-PL, Pipeline from 221-T to 241-T-151 and 241-T-152, V653, V654, V667, V668, V669, V706, V707
- 200-W-133-PL, V682 Spare Line
- 200-W-134-PL, V683 Spare Line
- 200-W-136, Underground Radioactive Material Area including 222-U Building Foundation, demolished 203-U area and contaminated soil
- 200-W-135-PL, V662, Spare Line
- 200-W-137-PL, Pipeline from 241-S-151 Diversion Box to 216-S-1 & 2 cribs
- 200-W-138-PL, Pipeline from 240-S-151 to 216-S-7 Crib, V547
- 200-W-139-PL, Pipeline from 200-W-138-PL to 216-S-9 Crib, V547
- 200-W-140-PL, Pipeline from 292-T(200-W-40)
- 200-W-141-PL, Pipeline connecting 200-W-139-PL pipeline to 216-S-23 Crib
- 200-W-142-PL, Pipeline from 222-T to 216-T-8 crib
- 200-W-143-PL, Encased Pipeline from 241-TX-154 Diversion Box 241-TX-155 Diversion Box, lines V383, V384, V385, V387, V388, V391, V392, V393
- 200-W-144, Room 4E, 222-S Laboratory Treatment, Storage, and Disposal
- 200-W-146-PL, 216-S-22 Crib Pipeline
- 200-W-147-PL, Pipeline from 207-SL to 216-S-19 Pond
- 200-W-147-PL, Pipeline from 207-SL to 216-S-19 Pond
- 200-W-148-PL, 216-S-26 Crib Pipeline
- 200-W-149-PL, Pipelines related to 216-S-20 Crib, See sub sites
- 200-W-150-PL, Pipelines Associated with 216-S-13 Crib, See Sub sites
- 200-W-155-PL, Pipeline from 2904-S-160 Control Structure to 216-S-16 Ditch; Portion of Pipeline 200-W-155-PL that is located in the Central Plateau Inner Area
- 200-W-155-PL, Pipeline from 2904-S-160 Control Structure to 216-S-16 Ditch; Portion of 200-W-155-PL Pipeline in the Outer Area
- 200-W-16, 292-T Underground Tanks, IMUST, 292-TK-1, 292-TK-2
- 200-W-21, 204-T Unloading Station, T-Plant Waste Railcar Unloading Facility
- 200-W-22, 203-S/204-S/205-S Stabilized Area
- 200-W-36, TK-SQ-143, EP 211-143
- Above Ground Storage Tank
- 200-W-37, Buried Tygon Tubing near 241-S-101
- 200-W-40, 292-T, Emission Control Lab, Stack Gas Sampling Building

CHPRC Site Names

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- 200-W-42, U Plant Radioactive Process Sewer from 221-U to 216-U-8 & 216-U-12 Cribs
 - 200-W-43, 291-S Stack Sand Filter
 - 200-W-44, 291-U Stack Sand Filter
 - 200-W-45, 291-T Sand Filter, T Plant Stack Sand Filter
 - 200-W-46, 222-S Laboratory Room 4-E 90-Day Waste Accumulation Area, Satellite Accumulation Area
 - 200-W-53, UPR-200-W-166, UN-216-W-31
 - 200-W-54, Contamination Migration from 241-SX Tank Farm
 - 200-W-58, Z-Plant Diversion Box #1
 - 200-W-59, Z-Plant Diversion Box #2
 - 200-W-63, Contaminated Concrete Pad
 - 200-W-64, 2724-W Contaminated Laundry Facility Building Foundation
 - 200-W-67, Contaminated Soil at the Corner of Cooper and 16th Street
 - 200-W-7, 246-L, 241-S-TK-1, 243S-TK-1, 243-S-TK1, 200-W Personnel Decontamination Facility Catch Tank, IMUST
 - 200-W-71, Undocumented Trench
 - 200-W-73, Contaminated Debris near Railroad Track (east of 218-W-2A)
 - 200-W-77, Posted Contamination Area East of 216-U-14 Ditch
 - 200-W-78; Pipeline Between 241-TX/TY and 241-T Tank Farms, Lines 6012,6025, 7624 and 7630
 - 200-W-79; 216-T-36 Crib pipeline
 - 200-W-80; Mound of Contaminated Soil Southwest of T Plant
 - 200-W-81; Contaminated Tumbleweed Fragments Along Railroad Track East of 218-W-3AE
 - 200-W-82, Risers East of 216-TY-201 and 216-T-26, 216-T-27, and 216-T-28 Cribs, Crib Unloading Station
 - 200-W-83, Contamination Area North of 2727W
 - 200-W-84, U Plant Process Sewer
 - 200-W-85, Soil Contamination Area East of 2727 W
 - 200-W-86, Contamination Area Around Light Pole
 - 200-W-87, Unplanned Release on Chemical Spur Railroad Track Northwest of 221-U Plant
 - 200-W-88, T Plant Process Sewer Pipelines
 - 200-W-89, 252-U, U Plant Electrical Substation, C8S17 Substation, U-Cat Substation
 - 200-W-9, Project W291 Excavation VCP Contamination
 - 200-W-90, Underground Radioactive Material Areas posted along 23rd Street in 200 West Area
 - 200-W-91, Underground Radioactive Material Area Adjacent to the North Side of 241-U Tank Farm
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CHPRC Site Names

- 200-W-92, Contaminated Mound of Soil and Debris, Soil Mound West of 241-TY Tank Farm
- 200-W-97, Encased Pipeline from 240-S-151 Diversion Box to 241-S-151 Diversion Box, Lines V508, V509, V512, V513, V514, V515, V516, V517/3603, V519/1115
- 200-W-98, Encased Pipeline from 240-S-151 to 241-U-153 Diversion Box, V458,V459,V460
- 200-W-99, Encased Pipeline from 241-U-151 to 241-S-151 Diversion Boxes, Lines V455 and V456
- 201-C, 201-C Process Building
- 203-S & 205-S, 203-S/204-S/205-S Stabilized Area, 203-S Uranyl Nitrate Hexahydrate Tank Farm, 204-S Tank Farm & Pumphouse, 205-S Process Vault & Chemical Makeup Building, 205-S Uranyl Nitrate Hexahydrate Processing Facility
- 205-A, 205-A Silica Gel Facility
- 207-A-NORTH, 207-A, 207-A Retention Basin, 207-A-NORTH Retention Basin, 207-A North
- 207-A-SOUTH, 207-A, 207-A Retention Basin, 207-A-SOUTH Retention Basin, 207-A South
- 207-B, B Plant Retention Basin, 207-B Retention Basin
- 207-S, REDOX Retention Basin, 207-S Retention Basin
- 207-T, T Plant Retention Basin, 207-T, 207-T Retention Basin
- 207-U, 207-U Retention Basin
- 209-E-WS-1, 209-E French Drain
- 209-E-WS-2, Critical Mass Lab French Drain
- 209-E-WS-3, Critical Mass Laboratory Valve Pit and Hold Up Tank (209-E-TK-111), IMUST (refer to sub-sites)
- 215-C, 215-C Gas Preparation Building
- 216-A-1, 216-A-1 Cavern, 216-A-1 Trench
- 216-A-10, 216-A-10 Crib
- 216-A-11 French Drain, Miscellaneous Stream #465
- 216-A-12, Miscellaneous Stream #463
- 216-A-13, 216-A-13 French Drain, Miscellaneous Stream #460
- 216-A-14, French Drain - Vacuum Cleaner Filter Pit, Miscellaneous Stream #462
- 216-A-15, Miscellaneous Stream #461
- 216-A-16, 216-A-16 Dry Well
- 216-A-17, 216-A-17 Dry Well
- 216-A-18, 216-A-18 Excavation, 216-A-18 Grave, 216-A-18 Sump, 216-A-18 Crib
- 216-A-19, 216-A-19 Test Hole, 216-A-19 Grave, 216-A-19 Sump, 216-A-19 Crib
- 216-A-2, 216-A-2 Cavern, 216-A-2 Crib
- 216-A-20, 216-A-20 Test Hole, 216-A-20 Grave, 216-A-20 Sump, 216-A-20 Crib
- 216-A-21, 216-A-21 Crib

CHPRC Site Names

- 216-A-22, 216-A-22 French Drain, 216-A-22 Crib
- 216-A-23A, 216-A-23-A French Drain
- 216-A-23B, 216-A-23-B French Drain
- 216-A-24, 216-A-24 Crib
- 216-A-25, Gable Mountain Swamp, 216-A-25 Swamp, Gable Mountain Pond
- 216-A-26, 216-A-26 French Drain, 216-A-26B, Miscellaneous Stream #464
- 216-A-26A, 216-A-25 Crib, 216-A-26 French Drain, 291-A French Drain
- 216-A-27, 216-A-27 Crib
- 216-A-28, 216-A-28 French Drain, 216-A-28 Crib
- 216-A-29, Snow's Canyon, PUREX Chemical Sewer (CSL)
- 216-A-3, 216-A-3 Cavern, 216-A-3 Crib
- 216-A-30, 216-A-30 Crib
- 216-A-31 Crib
- 216-A-32, 216-A-32 Crib
- 216-A-33, 216-A-33 Dry Well, 216-A-26B
- 216-A-34, 216-A-34 Ditch, 216-A-34 Crib
- 216-A-35 French Drain, 216-A-35 Dry Well
- 216-A-36A, 216-A-36 Crib
- 216-A-36B, 216-A-36 Crib, PUREX Ammonia Scrubber Distillate (ASD)
- 216-A-37-1, 216-A-37 Crib
- 216-A-37-2, 216-A-37-2 Crib
- 216-A-38-1, 216-A-38 Crib (refer to sub sites)
- 216-A-39, 216-A-39 Crib, 216-A-39 Trench
- 216-A-4, 216-A-4 Cavern
- 216-A-40 Retention Basin, 216-A-39 Crib, 216-A-39 Trench
- 216-A-41, Crib, 291-AR Stack Drain, 296-A-13 Stack Drain
- 216-A-42, 207-AA Retention Basin, 216-A-42 Trench, 216-A-42 Retention Basin
- 216-A-45, 216-A-45 Crib
- 216-A-5, 216-A-5 Cavern
- 216-A-508, Control Structure for 216-A-8 Crib, 216-A-8 Distribution Box
- 216-A-6, 216-A-6 Cavern
- 216-A-7, 216-A-7 Cavern
- 216-A-8, 216-A-8 Crib and Overflow Pond
- 216-A-9, 216-A-9 Crib

CHPRC Site Names

- 216-B-10A, 222-B-1 Crib, 216-B-10 Crib, 292-B
- 216-B-10B, 222-B-2 Crib, 216-B-10 Crib
- 216-B-11A&B, 216-B-11 Crib, 242-B-1 Crib, 216-B-11A & B, 216-B-11B
- 216-B-12, 216-ER Crib, 216-ER-1,2,3 Cribs
- 216-B-13, 216-B-13 French Drain, 291-B Crib, 216-B-B, 216-B-13 Crib
- 216-B-14, 216-BC-1 Crib
- 216-B-15, 216-BC-2 Crib
- 216-B-16, 216-BC-3 Crib
- 216-B-17, 216-BC-4 Crib
- 216-B-18, 216-BC-5 Crib
- 216-B-19, 216-BC-6 Crib
- 216-B-20, 216-BC-7 Trench, 216-B-20 Trench
- 216-B-21, 216-BC-8 Trench, 216-B-21 Trench
- 216-B-2-1, 216-B-1, B Swamp Ditch, 216-B-2, B Ditch, 216-B-2W
- 216-B-22, 216-BC-9 Trench, 216-B-22 Trench
- 216-B-2-2, 216-B-2-2W, 216-B-1 Ditch
- 216-B-23, 216-BC-10 Trench, 216-B-23 Trench
- 216-B-2-3, B Pond Ditch, B Swamp Ditch, 216-B-2-2E
- 216-B-24, 216-BC-11 Trench, 216-B-24 Trench
- 216-B-25, 216-BC-12 Trench, 216-B-25 Trench
- 216-B-26, 216-BC-13 Trench, 216-B-26 Trench
- 216-B-27, 216-BC-14 Trench, 216-B-27 Trench
- 216-B-28, 216-BC-15 Trench, 216-B-28 Trench
- 216-B-29, 216-BC-16 Trench
- 216-B-3, B Pond, B-3 Pond, 216-B-3 Main Pond, B Swamp, 216-B-3 Swamp, B Plant Swamp
- 216-B-30, 216-BC-17 Trench, 216-B-30 Trench
- 216-B-31, 216-BC-18 Trench, 216-B-31 Trench
- 216-B-3-1, B Swamp Ditch, 216-B-2, 216-B-3 Ditch, 216-B-2E
- 216-B-32, 216-BC-19 Trench, 216-B-32 Trench
- 216-B-3-2, 216-B Ditch, 216-B-1 Ditch, B Swamp Ditch, 216-B-2-2E
- 216-B-33, 216-BC-20 Trench, 216-B-33 Trench
- 216-B-3-3, B Swamp Ditch, 216-B-3-3 Ditch
- 216-B-34, 216-BC-21 Trench
- 216-B-35, 241-BX-1 Grave, 216-BX-1 Trench, 216-B-35 Trench

CHPRC Site Names

- 216-B-36, 241-BX-2 Grave, 216-BX-2 Trench, 216-B-36 Trench
- 216-B-37, 241-BX-3 Grave, 216-BX-3 Trench, 216-B-37 Trench
- 216-B-38, 241-BX-4 Grave, 216-BX-4 Trench, 216-B-38 Trench
- 216-B-39, 241-BX-5 Grave, 216-BX-5 Trench, 216-B-39 Trench
- 216-B-3A RAD, 216-B-3A Expansion Lobe Residual Radioactive Waste, 216-B-3 1st Overflow Pond, West Expansion Lobe
- 216-B-3B RAD, 216-B-3B Expansion Lobe Residual Radioactive Waste, East Expansion Lobe
- 216-B-3C RAD, 216-B-3C Expansion Lobe Residual Radioactive Waste
- 216-B-4, 216-B-4 French Drain, 216-B-4 Dry Well, 216-B-4 Reverse Well
- 216-B-40, 241-BX-6 Grave, 241-BX-6 Trench, 216-B-40 Trench, 216-BX-6 Trench
- 216-B-41, 241-BX-7 Grave, 216-BX-7 Trench, 216-B-41 Trench
- 216-B-42, 241-BX-8 Grave, 216-BX-8 Trench, 216-B-42 Trench
- 216-B-43, 216-BY-1 Crib, 216-BY-1 Cavern
- 216-B-44, 216-BY-2 Crib, 216-BY-2 Cavern
- 216-B-45, 216-BY-3 Crib, 216-BY-3 Cavern
- 216-B-46, 216-BY-4 Crib, 216-BY-4 Cavern
- 216-B-47, 216-BY-5 Crib, 216-BY-5 Cavern
- 216-B-48, 216-BY-6 Crib, 216-BY-6 Cavern
- 216-B-49, 216-BY-7 Crib, 216-BY-7 Cavern
- 216-B-5, 241-B-361 Reverse Well, 241-B-361 Dry Well, 241-B-5 Dry Well, 299-E28-29
- 216-B-50, 216-BY-8 Crib, 216-BY-8 Cavern
- 216-B-51, 216-BY-9 Crib
- 216-B-52, 216-B-52 Trench, 216-BC-22
- 216-B-53A, 216-B-53A Trench, PRTR Trench
- 216-B-53B, 216-B-53 Trench, 216-B-53B Trench
- 216-B-54, 216-B-54 Trench
- 216-B-55, 216-B-55 Enclosed Trench, 216-B-55 Crib
- 216-B-57, 216-B-57 Enclosed Trench, Hanford Prototype Barrier
- 216-B-58, 216-B-58 Trench, 216-B-59 Crib
- 216-B-59, 216-B-58 Trench, 216-B-58 Ditch
- 216-B-59B, 216-B-59 Retention Basin
- 216-B-6, 222-B-110 Reverse Well, 216-B-6 Dry Well, 216-B-6 Crib, 222-B-110 Dry Well
- 216-B-62, 216-B-62 Enclosed Trench, 216-B-62 Crib
- 216-B-63, B Plant Chemical Sewer, 216-B-63 Trench, 216-B-63 Ditch
- 216-B-64, 216-B-64 Retention Basin, 216-B-64 Trench, 216-B-64 Crib

CHPRC Site Names

- 216-B-7A&B, 241-B-201 Crib, 216-B-7 Crib, 216-B-7A Sump, 216-B-7B Sump, 241-B-1 and 2 Cribs, 216-B-7A & B
- 216-B-8, 241-B-3 Crib, 216-B-8, 216-B-8TF
- 216-B-9, 241-B-361 Crib, 5-6 Crib and Tile Field, 216-B-361 Crib, 216-B-9TF
- 216-BY-201, 241-BY Flush Tank, 216-BY-47, Supernatant Disposal Flush Tank, IMUST
- 216-C-1, 216-C-1 Crib, 216-C Crib
- 216-C-10, 216-C-10 Crib
- 216-C-2, 291-C Dry Well, 216-C-2 Dry Well, 216-C-2 Reverse Well
- 216-C-3, 201-C Leaching Pit, 216-C-3 Crib
- 216-C-4, 216-C-4 Crib
- 216-C-5, 216-C-5 Crib
- 216-C-6, 241-CX Crib
- 216-C-7, 216-C-7 Crib
- 216-C-8, 271-CR Crib, 216-C-8 Crib, 216-C-8 French Drain
- 216-C-9, 216-C-7 Swamp, Former 221-C Canyon Excavation, 216-C-9 Swamp, Semi-Works Swamp, 216-C-9 C Canyon Excavation Semiworks Swamp
- 216-S-1&2, 216-S-5 Crib, 216-S-1 & 2
- 216-S-10D, 216-S-10D Ditch, 202 Chemical Sump #1 and Ditch, Chemical Sewer Trench, Open Ditch to the Chemical Sewer Trench, 216-S-10 Ditch
- 216-S-10P, 216-S-10P Pond, 202-S Chemical Sump #1 and Ditch, Chemical Sewer Trench
- 216-S-11, 202-S Chemical Sump #2, Chemical Sewer Trenches, 216-S-11 Swamp
- 216-S-12, UPR-200-W-30, 291-S Stack Wash Sump, REDOX Stack Flush Trench
- 216-S-13, 276-S Crib, 216-S-6
- 216-S-15, 216-S-2, 241-S-110 Pond, 110-S Tank Overflow Pond, UN-216-W-3
- 216-S-16D, 202-S Swamp (New) and Ditch, 202-S Swamp #1, REDOX Pond #2, 216-S-24 Ditch
- 216-S-16P, 202-S Swamp and Ditch, 202-S Swamp #1, REDOX Pond #2
- 216-S-17, 202-S Swamp, 202-S REDOX Swamp, 216-S-1 REDOX Pond No. 1, REDOX Swamp, 216-S-1
- 216-S-172, 216-S-172 Weir Box and Control Structure, 2904-S-172 Weir, 216-S-172 Control Structure
- 216-S-18, 241-SX Steam Cleaning Pit, 216-S-14 Steam Cleaning Pit
- 216-S-20, 216-SL-1&2 Crib, 216-SL-2
- 216-S-21, 216-SX-1, 216-SX-1 Cavern or Crib
- 216-S-22, 216-S-22 Crib
- 216-S-23, 216-S-23 Crib

CHPRC Site Names

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- 216-S-25, 216-S-25 Crib
 - 216-S-3, 216-S-5, 216-S-3 Crib
 - 216-S-4, 216-S-7, 216-S-4 Sump or Crib, UN-216-W-1
 - 216-S-5, 216-S-5 Cavern #1, 216-S-6 Crib, 216-S-9
 - 216-S-6, 216-S-6 Cavern #2, 216-S-5 Crib, 216-S-13 Crib
 - 216-S-7, 216-S-7 Crib, 216-S-15
 - 216-S-8, Cold Aqueous Trench, Cold Aqueous Crib, 216-S-3, un-irradiated Uranium Waste Trench, Cold Aqueous Grave
 - 216-S-9 Crib
 - 216-SX-2, 216-SX-2 Crib
 - 216-T-1, 221-T Ditch, 221-T Trench, 216-T-1 Trench
 - 216-T-10, Decontamination Trenches, Equipment Decontamination Area
 - 216-T-11, Decontamination Trenches, Equipment Decontamination Area
 - 216-T-12, 207-T Sludge Grave, 207-T Sludge Pit, 216-T-11
 - 216-T-13, 269-W Regulated Garage, 269-W Decontamination Pit or Trench, 216-T-12, 269-W Regulated Garage Decontamination Pit
 - 216-T-14, 241-T-1 Trench, 216-T-1 Grave, 216-T-13
 - 216-T-15, 241-T-2 Trench, 241-T-2 Grave, 216-T-14, 216-T-15 Crib
 - 216-T-16, 241-T-3 Trench, 241-T-3 Grave, 216-T-15, 216-T-16 Crib
 - 216-T-17, 241-T-4 Trench, 216-T-4 Grave, 216-T-16
 - 216-T-18, Test Crib for 221-U Building, Scavenged TBP Waste, 216-T-17, 241-T-17 Crib
 - 216-T-19, 241-TX-153 Crib and Tile Field, 216-TX-1, 241-TX-3, 216-T-19TF
 - 216-T-2, 222-T-110 Dry Well, 222-T Reverse Well
 - 216-T-20, 216-TX-2, 216-T-20 Crib, 241-TX-155 Contaminated Acid Grave
 - 216-T-21, 241-TX-1 Trench, 216-TX-1 Grave, 216-TX-3
 - 216-T-22, 241-TX-2 Trench, 216-TX-2 Grave, 216-TX-4
 - 216-T-23, 241-TX-3 Trench, 216-TX-3 Grave, 216-TX-5, 241-TX-3 Grave
 - 216-T-24, 241-TX-4 Trench, 216-TX-4 Grave, 216-TX-6
 - 216-T-25, 241-TX-5 Trench, 216-TX-5 Grave, 216-TX-7
 - 216-T-26, 216-TY-1 Cavern, 216-TY-1 Crib, 241-TX-1 Cavern, 216-TX-1 Crib
 - 216-T-27, 216-TY-2 Cavern, 216-TY-2 Crib, 216-TX-2 Cavern, 216-TX-2 Crib
 - 216-T-28, 216-TY-3 Cavern, 216-TY-3 Crib, 216-TX-3 Cavern, 216-TX-3 Crib
 - 216-T-29, 291-T Sand Filter Sewer, 216-T-29 French Drain
 - 216-T-3, 241-T-361-A Reverse Well, 361-T Reverse Well
 - 216-T-31, 216-T-31 French Drain
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CHPRC Site Names

- 216-T-32, 241-T #1 & 2 Cribs, 216-T-6
- 216-T-33, 216-T-33 Crib
- 216-T-34, 216-T-34 Crib
- 216-T-35, 216-T-35 Crib
- 216-T-36 Crib
- 216-T-4-1D, 216-T-4 Ditch, 216-T-4 Swamp
- 216-T-4-2, 216-T-4-2 Ditch
- 216-T-4A, 216-T-4 Swamp, 216-T-4-1 (P), 216-T-4-1 Pond
- 216-T-4B, 216-T-4 New Pond, 216-T-4-2 (P), 216-T-4-2 Pond
- 216-T-5, 216-T-5 Grave, 216-T-12, 216-T-5 Trench, 241-T-5 Trench
- 216-T-6, 241-T-361 (1&2 Cribs), 216-T-5, 361-T-1&2 Cribs
- 216-T-7, 216-T-7TF, 216-T-7 Tile Field, 241-T-3 Tile Field
- 216-T-8, 222-T-1 & 2 Cribs
- 216-T-9, Decontamination Trenches, Equipment Decontamination Area
- 216-TY-201, Supernatant Disposal Flush Tank, IMUST
- 216-U-1&2, 361-WR (Crib 2), 216-U-3, 216-UR #1&2 Cribs, 216-U-1 & 2, 216-U-1, 216-U-2
- 216-U-10, U Swamp, 216-U-1, 216-U-10 Pond, 231 Swamp
- 216-U-11, U Swamp Extension Ditch, 216-U-12, 216-U-11 Trench, 216-U-11 Ditch, 216-U-11 (old ditch), 216-U-11 (new ditch)
- 216-U-12, 216-U-12 Crib
- 216-U-14, 216-U-14 Ditch, Laundry Ditch
- 216-U-15, UN-216-W-10, 388-U Tank Dumping, UPR-200-W-125, UN-200-W-158, U-152 Interface Crud Burial
- 216-U-16, UO3 Crib
- 216-U-17, 216-U-17 Crib
- 216-U-3, 216-U-11, 216-U-3 French Drain
- 216-U-4, 222-U Dry Well, 222-U-110 Dry Well, 216-U-2, 216-U-4 Dry Well
- 216-U-4A, 216-U-4 Reverse Well Replacement French Drain, 216-U-4 Dry Well
- 216-U-4B, 216-U-4B Dry Well, 216-U-4B French Drain
- 216-U-5, 216-U-4, 221-U Cold U Trench #2
- 216-U-6, U Facility Un-irradiated Uranium Waste Trench, 221-U Cold U Trench, 216-U Cold U Trench #1, 216-U-5, 221-U Cold U Grave #1
- 216-U-7, 221-U Counting Box French Drain, 221-U Vessel Vent Blower Pit French Drain
- 216-U-8, 216-WR-1,2,3 Cribs, 216-U-9
- 216-W-LWC, 216-W-LC, Laundry Waste Crib, 216-W-LWC Crib, 216-W-1

CHPRC Site Names

- 216-Z-1&2, 234-5 No. 1 Crib, 216-Z-7, 234-5 No. 2 Crib, 216-Z-1 & 2TF, 216-Z-1 and 216-Z-2 Cribs
- 216-Z-10, 216-Z-2, 231-W Reverse Well, 231-W-151 Dry Well or Reverse Well, 231-Z Well, 299-W15-51, 231-W-150
- 216-Z-11, 216-Z-11 Ditch, Z Plant Ditch
- 216-Z-12, 241-Z-12 Crib
- 216-Z-15, 234-5 Dry Well #3, 216-Z-15 Dry Well, Miscellaneous Stream #263
- 216-Z-16
- 216-Z-17, 216-Z-17 Ditch
- 216-Z-18, 216-Z-18 Crib
- 216-Z-19, 216-U-10 Ditch, Z Plant Ditch, 216-Z-19 Ditch
- 216-Z-1A, 216-Z-1A Tile Field, 216-Z-7, 234-5 Tile Field, 216-Z-1AA, 216-Z-1AB, 216-Z-1AC
- 216-Z-1D, 216-Z-1, Drain Ditch to U Swamp, Z Plant Ditch
- 216-Z-20, Z-19 Ditch Replacement Tile Field
- 216-Z-3, 216-Z-3 Culvert, 216-Z-8, 234-5 No. 3 & 4 Cribs
- 216-Z-4, 231-W-3 Pit, 231-W-3 Sump, 231-W-3 Crib, 216-Z-3, 216-Z-4 Crib
- 216-Z-5, 231-W Sumps, 231-W-1 & 2 Cribs
- 216-Z-6, 231-W-4 Crib, 231-Z-6, 216-W-4, 231-W Crib, 216-Z-4, 216-Z-6 & 6A Crib
- 216-Z-7, 231-W Crib, 231-W Trench, 216-Z-6
- 216-Z-8, 234-5 Recuplex French Drain, 216-Z-9, 216-Z-8 Crib
- 216-Z-9, 216-Z-9 Cavern, 234-5 Recuplex Cavern, 216-Z-10, 216-Z-9 Crib, 216-Z-9 Covered Trench
- 218-C-9, Dry Waste No.0C9, 218-C-9 Burial Ground
- 218-E-1, 200 East Dry Waste No. 001
- 218-E-10, 200 East Industrial Waste No. 10, Equipment Burial Ground #10
- 218-E-12A, 200 East Dry Waste No. 12A
- 218-E-12B, 200 East Dry Waste No. 12B, 218-E-12B Burial Ground - Trench 94
- 218-E-14, PUREX Tunnel No. 1, PUREX Storage Tunnel
- 218-E-15, PUREX Tunnel No. 2, PUREX Storage Tunnel
- 218-E-2, 200 East Industrial Waste No. 002, Equipment Burial Ground #2
- 218-E-2A, Regulated Equipment Storage Site No. 02A, Burial Trench
- 218-E-4, 200 East Minor Construction No. 4, Equipment Burial Ground #4
- 218-E-5, 200 East Industrial Waste No. 05, Equipment Burial Ground #5
- 218-E-5A, 200 East Industrial Waste No. 005A, Equipment Burial Ground #5A
- 218-E-7, 200 East 222-B Vaults
- 218-E-8, 200 East Construction Burial Grounds

CHPRC Site Names

- 218-E-9, 200 East Regulated Equipment Storage Site No. 009, Burial Vault (HISS)
- 218-W-1, 200-W Area Dry Waste No. 001, Solid Waste Burial Ground #1
- 218-W-11, Regulated Storage Site
- 218-W-1A, 200-W Area Industrial Waste Burial Ground #1, Equipment Burial Ground #1
- 218-W-2, 200-W Area Dry Waste No. 002, Dry Waste Burial Ground No. 2
- 218-W-2A, Industrial Waste No. 02A, Equipment Burial Ground #2
- 218-W-3, Dry Waste No. 003
- 218-W-3A, Dry Waste No. 003A
- 218-W-3AE, Industrial Waste No. 3AE, Dry Waste No. 3AE
- 218-W-4A, Dry Waste No. 04A
- 218-W-4B, Dry Waste No. 04B
- 218-W-4C, Dry Waste No. 004C, 218-W-4C Annex
- 218-W-5, Dry Waste Burial Ground, Low-Level Radioactive Mixed Waste Burial Grounds
- 218-W-7, 222-S Vault
- 218-W-8, 222-T Vault
- 218-W-9, Dry Waste Burial Ground No. 9, Non-TRU Dry Waste No. 009
- 219-S-104, 219-S-TK-104, 219-S Storage Tank 104
- 231-W-151, 231-W-151 Vault, 231-W-151-001 (Tank), 231-W-151-002 (Tank), 231-W-151 Sump, 231-Z-151 Sump, IMUST (refer to sub-sites)
- 232-Z, 232-Z Waste Incineration Facility, 232-Z Incineration Facility, 232-Z Incinerator
- 240-S-151, 240-S-151 Diversion Box
- 240-S-152, 240-S-152 Diversion Box
- 240-S-302, 240-S-302 Catch Tank, IMUST
- 241-A-501, 241-A-501 Contact Condenser Valve Pit
- 241-AX-153, 241-AX-153 Isolation Jumper Pit
- 241-AY-501, 241-AY-501 Condensate Valve Pit
- 241-AZ VP, 241-AZ Valve Pit
- 241-AZ-154, 241-AZ-154 Catch Tank
- 241-AZ-155, 241-AZ-155 Contaminated Storage Pit
- 241-AZ-301, Condensate Receiver Tank
- 241-B-361, 241-B-361 Settling Tank, IMUST
- 241-CX-70, 241-CX-TK-70 Tank, Strontium Hot Semi-works, IMUST
- 241-CX-71, 241-CX-TK-71, 241-CX Neutralization Tank, Strontium Hot Semi-works, IMUST
- 241-ER-151, 241-ER-151 Diversion Box
- 241-ER-152, 241-ER-152 Diversion Box

CHPRC Site Names

- 241-ER-153, 241-ER-153 Diversion Box
- 241-ER-311, 241-ER-311 Catch Tank, 241-ER-311A Replacement Tank
- 241-ER-311A, 241-ER-311A Catch Tank, old 241-ER-311, Original 241-ER-311 Catch Tank, IMUST
- 241-EW-151, 241-EW-151 Vent Station Catch Tank, 241-EW-151 Vent Station, Vent Station, 200 Area East-West Vent Station
- 241-T-361, 241-T-361 Settling Tank, 361-T-TANK, IMUST
- 241-U-361, 241-U-361 Settling Tank, 361-U-TANK, IMUST
- 241-WR VAULT, 241-WR Vault (Tanks -001 through -009), 241-WR-01 thru 09, 241-WR Diversion Station Vault, 244-WR Vault, 296-U-6 Stack, IMUST (refer to sub-sites)
- 241-Z, 241-Z Treatment and Storage Tanks, 241-Z Tank Farm, 241-Z Treatment and Storage System, 241-Z-D-4, 241-Z-D-5, 241-Z-D-7, 241-Z-D-8, 241-Z Sump, 241-Z Tank Pit
- 241-Z-361, 241-Z-361 Settling Tank, IMUST
- 241-Z-8, 241-Z-TK-8, Silica Slurry Tank, 216-Z-8, IMUST
- 242-B-151, 242-B Evaporator Building Diversion Box
- 242-T, 242-T Evaporator Facility, 241-T Evaporator
- 242-T-135, IMUST
- 242-T-151, 242-T-151 Diversion Box
- 242-TA-R1, 242-TA, Receiver TK-Vault, 242-TA Receiver Tank Vault, Z Waste, Receiver Tank TK-R1, IMUST
- 244-AR VAULT, 244-AR Vault
- 244-U-2904, 244-U Flush Pit
- 2607-EE, 2607-EE Septic System
- 2704-C-WS-1, 2704-C French Drain, Gatehouse French Drain
- 270-E-1, 270-E CNT, 270-E Condensate Neutralization Tank, 216-ER-1, IMUST
- 270-W, 270-W Tank, 270-W Neutralization Tank, IMUST
- 2718-E-WS-1, 2718 French Drains
- 2904-S-160, 2904-S-160 Control Structure, 2904-S-160 Weir
- 2904-S-170, 2904-S-170 Weir Box, 2904-S-170 Control Structure
- 2904-S-171, 2904-S-171 Weir Box, 2904-S-171 Control Structure, 216-S-171
- 291-C, 291-C Filter/Fan House, 291-C Fan and Filter Building, 201-C Air Tunnel
- 291-C-1, 291-C-1 Stack, 291-C Stack Burial Trench
- 299-E24-111, Experimental Test Well Site, Miscellaneous Stream 803
- 600 OCL, 600 Area Original Central Landfill, Original CLF
- 600-118, Hot Spot Northwest of Gable Mountain Pond, Contaminated Soil Northwest of Gable Mountain Pond

CHPRC Site Names

- HSVP, Hot Semiworks Valve Pit, 201-C Diversion Box, Semiworks Valve Pit
- UPR-200-E-1, Waste Line Failure on South Side of 221-B
- UPR-200-E-10, Contaminated PUREX Railroad Spur, UN-200-E-10
- UPR-200-E-100, Radioactive Contamination Near 244-A Lift Station, UN-216-E-100, UN-216-E-29, UN-200-E-100
- UPR-200-E-101, UN-216-E-30, UN-216-E-101, UN-200-E-101, Radioactive Spill Near 242-B Evaporator
- UPR-200-E-103, UN-200-E-103, BCS Line Leak South of R-17 at 221-B
- UPR-200-E-11, Railroad Track Contamination Spread, UN-200-E-11
- UPR-200-E-112, UN-200-E-112, Contaminated Railroad Track from B-Plant to the Burial Ground
- UPR-200-E-117, Contaminated Liquid Spill, UN-200-E-117
- UPR-200-E-12, Contaminated PUREX Railroad Spur, UN-200-E-12
- UPR-200-E-13, Overflow from 216-A-4, UN-200-E-13, UPR-200-E-15
- UPR-200-E-138, Liquid release from B-Plant, UN-200-E-138, UPR-200-W-66
- UPR-200-E-14, UN-200-E-14, 216-B-3 Pond Dike Break
- UPR-200-E-143, Contamination Adjacent to 244-A Lift Station, UN-216-E-43
- UPR-200-E-144, Soil Contamination North of 241-B, UN-216-E-44
- UPR-200-E-145, W049H Green Soil, VCP Pipeline Leak
- UPR-200-E-15, Overflow at 216-A-4, UN-200-E-15, UPR-200-E-13
- UPR-200-E-17, Overflow at 216-A-22, UN-200-E-17
- UPR-200-E-18, Contamination Release at the 216-A-8 Sampler Pit, UN-200-E-18
- UPR-200-E-19, Contamination Release at 216-A-6 Sampler, UN-200-E-19
- UPR-200-E-2, UN-200-E-2, Spotty Contamination Around the B and T Plant Stacks
- UPR-200-E-20, Contaminated PUREX Railroad Spur, UN-200-E-20
- UPR-200-E-21, 216-A-6 Overflow, UN-200-E-21
- UPR-200-E-22, 291-A-1 Stack Fallout Area, UN-200-E-22,
- UPR-200-E-28, Contamination Release Inside the PUREX Exclusion Area, UN-200-E-28
- UPR-200-E-29, 216-A-6 Overflow, UN-200-E-29
- UPR-200-E-3, Line leak from 221-B to 241-BX-154, UN-200-E-3
- UPR-200-E-32, UN-200-E-32, Coil Leak from 221-B
- UPR-200-E-33, Contaminated PUREX Railroad tracks, UN-200-E-33
- UPR-200-E-34, Liquid Release to B-Pond and Gable Pond, UN-200-E-34
- UPR-200-E-35, Buried Contaminated Pipe, UN-218-E-1, 218-E-13
- UPR-200-E-36, Contamination Spread North of Semi-works, Road Contamination North of Semiworks, UN-200-E-36

CHPRC Site Names

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- UPR-200-E-38, Release from 241-B-152, UN-200-E-38, UN-216-E-4
 - UPR-200-E-39, Release from 216-A-36B Crib Sampler (295-A), UN-200-E-39
 - UPR-200-E-41, UN-200-E-41 Soil Contamination in the Vicinity of R-13 Stairwell (221-B), UPR-200-E-85
 - UPR-200-E-44, UN-200-E-44, BCS Waste Line Leak South of 221-B
 - UPR-200-E-51, Liquid Release from PUREX to B-Pond, UN-200-E-51
 - UPR-200-E-52, UN-200-E-52, Contamination Spread Outside the North Side of 221-B
 - UPR-200-E-53, UN-200-E-53, Contamination at 218-E-1
 - UPR-200-E-56, 216-A-24 Crib Excavation, Excavated Contamination Adjacent to 216-A-24 Crib, UN-200-E-56, UN-216-E-33
 - UPR-200-E-64, Radioactive Soil and Ant Hills, UN-200-E-64, UN-216-E-36
 - UPR-200-E-66, 216-A-42 Basin Contamination Release, UN-216-E-66, UN-200-E-66
 - UPR-200-E-68, Radioactive Contamination Spread, UN-216-E-68, UN-200-E-68
 - UPR-200-E-69, UN-216-E-69, Railroad Car Flush Water Radioactive Spill, UN-200-E-69
 - UPR-200-E-7, UN-200-E-7, Cave-In Near 216-B-9 (241-B-361 Crib)
 - UPR-200-E-72, Radioactive Contamination from Uncovered Buried Waste, UN-200-E-72
 - UPR-200-E-79, UN-216-E-7, 242-B to 207-B Line Break, UN-200-E-79
 - UPR-200-E-80, UN-216-E-8, 221-B R-3 Line Break, R-3 Radiation Zone, UN-200-E-80
 - UPR-200-E-83, UN-216-E-11, BC Cribs Controlled Area, BC Controlled Area, UN-200-E-83
 - UPR-200-E-84, 241-ER-151 Catch Tank Leak, UN-200-E-84, UN-216-E-12
 - UPR-200-E-85, Line Leak at 221-B Stairwell R-13, UN-216-E-13, UPR-200-E-41, UN-200-E-85, UN-200-E-41
 - UPR-200-E-87, UN-216-E-15, 224-B South Side Plutonium Ground Contamination, UN-200-E-87, 216-E-15
 - UPR-200-E-88, TC-4 Spur Contaminated Railroad Track, UN-216-E-88, UN-216-E-16, UN-200-E-88. Ground Contamination Around the Western PUREX Railroad Spur
 - UPR-200-E-89, UN-216-E-17, UN-200-E-89, Contamination Migration to the North, East & West of BX-BY Tank Farms
 - UPR-200-E-9, Liquid Overflow at 216-BY-201, UN-200-E-9
 - UPR-200-E-90, UN-216-E-18, Ground Contamination around B Plant Sand Filter, UN-216-E-90, Radioactive Spill Near 221-B Building, UN-200-E-90
 - UPR-200-E-94, Vehicle Decontamination Area, UN-216-E-22, UN-200-E-94
 - UPR-200-E-95, UN-216-E-23, UN-200-E-95, Ground Contamination Around RR Spur Between 218-E-2A and 218-E-2
 - UPR-200-E-96, Ground Contamination SE of PUREX, UN-216-E-24, UN-200-E-96
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CHPRC Site Names

- UPR-200-E-97, Ground Contamination Around Cribs South of PUREX , Contamination Near PUREX Railroad Tunnel, UN-216-E-25, UN-200-E-97
- UPR-200-E-98, UN-216-E-26, Ground Contamination East of C Plant (Hot Semi Works), UN-200-E-98
- UPR-200-W-10, UN-200-W-10, Contamination Spread at 203-S UNH Tanks
- UPR-200-W-101, UN-216-W-9, 221-U Acid Spill R-1 through R-9, UN-200-W-101
- UPR-200-W-102, UN-216-W-12, UN-200-W-102, 224-T Underground Line Leak
- UPR-200-W-103, 216-Z-18 Line Break, UN-216-W-13, UN-200-W-103, Pipe Line Leak
- UPR-200-W-104, UN-216-W-14, 216-U-10 Pond Leach Trench, U Pond Fingers
- UPR-200-W-105, UN-216-W-15, 216-U-10 Pond Leach Trench
- UPR-200-W-106, UN-216-W-16, 216-U-10 Pond Leach Trench
- UPR-200-W-107, UN-216-W-17, 216-U-10 Pond Flood Plain
- UPR-200-W-108, Line leak at 216-S-9 Crib, UN-216-W-18, UN-200-W-108
- UPR-200-W-109, Waste Line Leak near 218-W-9, UN-216-W-19, UN-200-W-109
- UPR-200-W-110, Contaminated Soil from 216-Z-1, UN-216-W-20 Spoil Trench
- UPR-200-W-111, Sludge Trench at 207-U, UN-216-W-21
- UPR-200-W-112, Sludge Trench at 207-U, UN-216-W-22
- UPR-200-W-114, UN-216-W-24, Ground Contamination East of 241-SX Tank Farm, UN-200-W-114
- UPR-200-W-115, UN-216-W-25, Ground Contamination above Transfer Line Along Cooper Street
- UPR-200-W-116, UN-216-W-26, Ground Contamination North of 202-S, UN-200-W-116
- UPR-200-W-117, Railroad Track Contamination, 221-U Railroad Cut Contamination, UN-216-W-27, UN-200-W-117
- UPR-200-W-118, Contamination at 211-U, UN-216-W-28, UN-200-W-118
- UPR-200-W-123, 204-S Unloading Facility Frozen Discharge Line, UN-200-W-123
- UPR-200-W-124, Dike Break at the REDOX Pond, UN-200-W-124
- UPR-200-W-13, Liquid Release from REDOX to 207-S and 216-S-17 Pond, UN-200-W-13
- UPR-200-W-130, Line Leak at 231-W-151 Sump, UN-200-W-130
- UPR-200-W-137, 218-W-7, UN-200-W-137
- UPR-200-W-138, 221-U Vessel Vent Blower Pit French Drain, UN-216-W-11, UN-200-W-138, UN-200-W-22, UPR-200-W-22
- UPR-200-W-139, Liquid Release to the 216-U-9 Ditch, UN-200-W-139, UPR-200-W-18
- UPR-200-W-14, Waste Line Leak at 242-T Evaporator, UN-200-W-14
- UPR-200-W-15, Liquid Release from REDOX to 207-S and 216-S-17 Pond, UN-200-W-15
- UPR-200-W-16, Fire at 218-W-1 Burial Ground

CHPRC Site Names

- UPR-200-W-160, Line Break at 241-TX-302C, UPR-200-W-38, UPR-200-W-40, 216-T-30
- UPR-200-W-161, UN-216-W-35, UN-200-W-161, Large Area east of 241-U Tank Farm
- UPR-200-W-162, Contaminated Area on East Side of 221-U, UN-216-W-37
- UPR-200-W-163, Contaminated Vegetation at the 216-U-8 Pipeline (200-W-42), UN-216-W-33
- UPR-200-W-164, Overhead UNH Line Leak, UN-216-W-29
- UPR-200-W-165, Contamination Area East of 241-S, UN-216-W-30
- UPR-200-W-166, Contamination Migration from 241-T Tank Farm, UN-216-W-31
- UPR-200-W-19, 241-U-361 Overflow, UN-200-W-19
- UPR-200-W-2, UN-200-W-2, Underground Waste Line Leak
- UPR-200-W-23, Waste Box Fire at 234-5Z, UN-200-W-23
- UPR-200-W-26, Contamination Spread During Burial Operation
- UPR-200-W-29, Transfer Line Leak, UN-200-W-29, UPR-200-W-27, UN-200-W-27, UN-216-W-5, 23rd and Camden Line Break
- UPR-200-W-3, Railroad Contamination, UN-200-W-3
- UPR-200-W-32, UNH Transfer Line Break, UN-200-W-32
- UPR-200-W-33, Ground Contamination at 224-U, UN-200-W-33
- UPR-200-W-34, Overflow of the 216-S-10 Ditch, UN-200-W-34
- UPR-200-W-35, Ground Contamination Near UNH Process Line, UN-200-W-35, REDOX to 224-U UNH Line Leak
- UPR-200-W-36, Groundwater Contamination at 216-S-1 and 216-S-2
- UPR-200-W-38, Line Break at 241-TX-302C, UPR-200-W-160, UPR-200-W-40, UN-200-W-38, 216-T-30
- UPR-200-W-39, UN-200-W-39, 224-U Buried Contamination Trench
- UPR-200-W-4, Railroad Contamination, UN-200-W-4
- UPR-200-W-41, Railroad Contamination, UN-200-W-41, REDOX Railroad Cut Contamination
- UPR-200-W-45, Burial Box Collapse
- UPR-200-W-46, Contaminated Railroad Track, H-2 Centrifuge Burial, UN-200-W-46
- UPR-200-W-47, 216-S-16P Dike Release, UN-200-W-47
- UPR-200-W-49, Contamination Southeast of 241-SX, UN-200-W-49
- UPR-200-W-51, Release from 241-S Diversion Box, UN-200-W-51, UPR-200-W-52
- UPR-200-W-52, Release from 241-S Diversion Box, UN-200-W-52
- UPR-200-W-53, Burial Box Collapse
- UPR-200-W-55, Uranium Powder Spill at 224-U, UN-200-W-55
- UPR-200-W-58, Railroad Track Contamination, UN-200-W-58
- UPR-200-W-59, Contaminated Liquid Released to 216-S-16P

CHPRC Site Names

- UPR-200-W-60, Railroad Contamination, UN-200-W-60
- UPR-200-W-61, REDOX Ground Contamination, UN-200-W-61
- UPR-200-W-62, UN-200-W-62, Line Leak at 23rd and Camden, UN-216-W-5, Duplicate of UPR-200-W-97
- UPR-200-W-63, Road Contamination along the South Shoulder of 23rd Street, UN-200-W-63
- UPR-200-W-64, Road Contamination at 23rd and Camden, UN-200-W-64
- UPR-200-W-65, Contamination in the T-Plant Railroad Cut, UN-200-W-65
- UPR-200-W-67, Contamination near 2706-T, UN-200-W-67
- UPR-200-W-69, Railroad Contamination, UN-200-W-69
- UPR-200-W-70, Contamination Found at the 200 West Burning Ground East of Beloit Ave.
- UPR-200-W-72, Contamination at 218-W-4A
- UPR-200-W-73, Contaminated Railroad Track at 221-T, UN-200-W-73
- 200-W-249, 2736-ZB and 2736-ZC Concrete Slabs
- UPR-200-W-8, UN-200-W-8, 200-W-5, Old Burial/Burning Pit, U-Plant Burning Pit/Burial Ground
- UPR-200-W-82, UN-200-W-82, Contamination Spread at 240-S-151
- UPR-200-W-83, Radioactive Spill Near 204-S Radiation Zone, UN-216-W-82, UN-200-W-83
- UPR-200-W-86, Contaminated Pigeon Feces at 221-U and 204-S, UN-200-W-86, UN-216-W-86
- UPR-200-W-95, UN-216-W-2, 207-S Retention Basin
- UPR-200-W-96, UN-216-W-4, 233-S Floor Overflow, 233-SA Floor Overflow
- UPR-200-W-97, Transfer Line Leak, UN-216-W-5, UN-200-W-97
- UPR-200-W-98, UN-216-W-6, 221-T Waste Line Break at R-19, UN-200-W-98
- UPR-200-W-99, UN-216-W-7, 241-153-TX Diversion Box Contamination Spread, UN-200-W-99
- UPR-600-12, UN-600-12, UNH Spill to Route 4S
- UPR-600-20, UN-216-E-41, Cross Country Transfer Line Contamination, Cross Site Transfer Line, V360, V361, V362, V363, V364, V366; Cross Site Transfer Pipeline
- 200-E-294; 209-E Slab; Demolished 209-E Critical Mass Laboratory Building Foundation; Potential Asbestos in Soil
- 200-E-293; 2718-E Contaminated Concrete Slab, 2718-E Foundation
- 200-E-238-PL; Pipeline from 206-A to 216-A-9 Crib
- 200-E-24; 2704-HV Septic System; 6607-11
- 200-E-231-PL; 216-A-45 Crib Pipeline
- 241-C-154; 241-C-154 Diversion Box
- 200-E-217-PL; Encased Transfer Line from 241-ER-151 Diversion Box to 241-BX Tank Farm; Lines 9808, 9653, 9719 and V225

CHPRC Site Names

- 200-W-157-PL; Pipeline from 202-S to 200-W-152-PL and 216-S-10 Ditch; Pipeline from 205-S to REDOX Chemical Sewer; REDOX Chemical Sewer
- 200-W-186-PL; Lines 1006 and 1045; Transfer Lines from 240-S-152 Diversion Box to 204-S and 205-S
- 200-W-212-PL; Encased Transfer Line from 240-S-151 Diversion Box to Pipeline 200-W 153-PL; Lines V550, V551, V544, V546, V548 and V549
- 200-W-239; 211-U and 211-UA Potential Asbestos in Soil; Post Remediation URMA
- 200-W-152-PL; 207-S Retention Basin and 216-S-17 Pond; Pipeline from 202-S to 2904-S-170; REDOX Process Sewer
- 200-W-157-PL; Pipeline from 202-S to 200-W-152-PL and 216-S-10 Ditch; Pipeline from 205-S to REDOX Chemical Sewer; REDOX Chemical Sewer
- 200-W-221-PL; Laundry Waste Crib (LWC) Pipeline
- 600-387; 212-R Rail spur Legacy Contamination
- 200-W-153-PL; Steel Pipeline from 240-S-151 Diversion Box to the 2904-S-172 and 2904-S-171 Control Structures via 200-W-212-PL

6.2 Washington Closure Hanford

Outdoor radiological waste sites under the responsibility of WCH will be surveyed at least annually to provide a level of assurance that the contamination controls for the various waste sites are effective. Radiological surveys scheduled for some sites under the River Corridor Closure Project (RCCP) may not be performed as scheduled. The RCCP survey schedule is only a recommendation and the surveys may not be performed as scheduled due to various closure project activities and schedules. Several of these sites, are undergoing remediation and receive frequent radiological surveys, while other sites complete remediation and await final approval for release.

6.3 Washington River Protection Solutions

Outdoor radiological waste sites under the responsibility of WRPS are radiologically surveyed at least once per year. Surveys that are more frequent are performed, if warranted, to provide assurance that contamination and migration controls are effective. Visual inspections for housekeeping, proper posting, subsidence, animal or plant intrusion, etc., are also performed, at a minimum, on an annual frequency. WRPS performs radiological surveys in accordance with TFC-ESHQ-RP-MON-P-10, *Required Radiological Surveillances*.

WRPS Site Names

| | | |
|-----------------|---|-------|
| • 200-W-54 | 241-SY North Area and 241-S/SX East area both large URMA | CA |
| • 240-S-151 | 202-S Redox North inside fence | CA |
| • 240-S-302 | 202-S Redox North inside fence | CA |
| • 241-ER-151 | 151-ER Area Quarterly CA unoccupied perimeter | CA |
| • 241-ER-152 | 152-ER CA unoccupied perimeter | CA |
| • 241-ER-153 | 151-ER Area inside CA | CA |
| • 241-ER-311 | 151-ER Area inside CA | CA |
| • 241-ER-311A | 151-ER Area inside CA | CA |
| • 242-T | 241-T Evaporator outside around building | CA |
| • 244-AR | 244-AR Unoccupied CA perimeters outside around the building | CA |
| • 200-E-131 | East of 241-A/AX/AZ Contamination migration outside farms | CA |
| • 200-E-132 | South and East of 241-A/AX/AZ Contamination migration | CA |
| • 200-W-240 | Large CA West of 242-S across road | CA |
| • 200-W-241 | CA North of Cooper Ave. and West of 242-S | CA |
| • 200-W-96 | Contaminated Soil outside farms unoccupied CA boundary | CA |
| • 241-A-151 | 202-A PUREX South side Diversion Box | CA |
| • 241-A-302A | 202-A PUREX South side Catch tank | CA |
| • 241-A-302B | 241-A East side inside of CA at 200-E-131 East of 241-A | CA |
| • 241-AZ | East outside farm fence unoccupied CA | CA |
| • 241-BX-302-C | N/W corner of Atlanta and Baltimore, South of 241-BX Farm | CA |
| • 241-TX-154 | T-Plant behind building East side Diversion Box | CA |
| • 241-TX-302C | T-Plant behind building East side catch tank | CA |
| • UPR-200-E-19 | East side of parking lot for AW trailer village | CA |
| • UPR-200-W-113 | TX-155 Area spills | CA |
| • UPR-200-W-135 | Spill North West of TX-155 | CA |
| • UPR-200-W-76 | 241-TX-155 Area | CA |
| • 200-E-287 | 600-269 Pipeline berm contaminated vegetation | CA |
| • 242-T-135 | 241-T Evaporator North side IMUST Tank | CA/RA |

WRPS Site Names

| | | |
|----------------|--|-------|
| • 244-A CT | 244-A Receiver Tank | CA/RA |
| • 244-A LS | 244-A Lift Station | CA/RA |
| • 231-W-151 | 231-Z Diversion Box East of building | RA |
| • 241-AX-151 | Corner of 4th and Buffalo | RA/CA |
| • 200-E-121 | SCA East of Baltimore Avenue | SCA |
| • UPR-200-W-38 | Line break at 241-TX-302C | SCA |
| • 200-E-120 | Two Large SCAs East of 241-B | SCA |
| • 200-W-95 | 241-U East side | SCA |
| • UPR-200-E-77 | 241-B-154 Diversion Box spill | SCA |
| • 200-E-111-PL | ER-151 to 241-C and 244-AR | URMA |
| • 200-E-114-PL | 241-BY Tank Farm to 241-C and BC cribs | URMA |
| • 200-E-115 | Small URMA East of 241-C Tank Farm | URMA |
| • 200-E-116-PL | 241B-154 Diversion box to 241-C-152 Diversion Box | URMA |
| • 200-E-121 | URMA East of Baltimore Avenue | URMA |
| • 200-E-129 | URMA on East side of B Plant railroad cut | URMA |
| • 200-E-145-PL | Interplant Transfer Line from 241-CR-153 to 241-ER-153/152/151 | URMA |
| • 200-E-147-PL | Interplant Transfer Line from 241-CR-153 to 241-ER-153/152/151 | URMA |
| • 200-E-149-PL | 241-C-252 to 201-C Hot Semi Works tank farm pipeline | URMA |
| • 200-E-150-PL | 244-CR-TK-003 to 201-C Hot Semi Works tank farm pipeline | URMA |
| • 200-E-153-PL | 241-C-151 to 244-AR-TK-002 Tank Farm pipeline | URMA |
| • 200-E-167-PL | 244-A to 241-A-A/-A-B Valve pits North of 204-AR | URMA |
| • 200-E-29 | 152-ER, from Atlanta Ave. around 152-ER | URMA |
| • 200-E-4 | 209-E French Drain | URMA |
| • 200-E-43 | TC-4 fenced in area, rail car storage area | URMA |
| • 200-W-100-PL | 241-UX-154to 241-SX-152 Diversion Box | URMA |
| • 200-W-105-PL | 241-UX-154 to 241-TX Tank Farm | URMA |
| • 200-W-129-PL | 241-T-151 and 152 to 241-TX-155 | URMA |
| • 200-W-13 | Green Hut Complex area | URMA |
| • 200-W-130-PL | 241-T-151 and 152 to 241-U-151 Diversion Box | URMA |
| • 200-W-131-PL | 241-TX-153 to 200-W-130PL | URMA |
| • 200-W-132-PL | 221-T to 241-T-151 and 241-T-152 | URMA |
| • 200-W-143-PL | 241-TX-154 Diversion Box to 241-TX-152 and 241-TX-155 | URMA |
| • 200-W-53 | 241-T East outside fence side large area | URMA |
| • 200-W-54 | 241-SY 241-S/SX East of farms large URMA | URMA |
| • 200-W-7 | Decon facility catch tank | URMA |

WRPS Site Names

| | | |
|-----------------|--|------|
| • 200-W-78-PL | Areas East of 241-TY | URMA |
| • 200-W-97-PL | 240-S-151 to 241-S-151 | URMA |
| • 200-W-98-PL | 240-S-151 to 241-U-153 | URMA |
| • 200-W-99-PL | 241-U-151 to 241-S-151 | URMA |
| • 209-E-WS-2 | 209-E West side French Drain | URMA |
| • 209-E-WS-3 | 209-E South Side French Drain | URMA |
| • 216-A-40 | Retention Basin South of 244-A LS | URMA |
| • 216-BY-201 | 241-BY North side IMUST Tank | URMA |
| • 216-C-7 | 209-E South Side Crib | URMA |
| • 216-C-8 | 271-CR Crib | URMA |
| • 231-W-151 | 231-Z Diversion Box East of building. | URMA |
| • 240-S-151 | 202-S Redox North inside fence | URMA |
| • 240-S-152 | 202-S Redox North outside fence | URMA |
| • 241-EW-151 | East/West Vent Station | URMA |
| • 241-Z-8 | Tank East of 234-5 | URMA |
| • 244-AR | 244-AR South side Bldg. URMA | URMA |
| • 2607-WUT | 241-U North side Drain field | URMA |
| • GTF | Grout Buildings | URMA |
| • GTFL | Grout Vaults | URMA |
| • UPR-200-E-100 | Spill next to 244-A lift station | URMA |
| • UPR-200-E-143 | URMA next to 244-A Lift station | URMA |
| • UPR-200-E-145 | East of 242-A | URMA |
| • UPR-200-E-18 | URMA at A-8 Sampler pit inside unoccupied CA (URMA boundary) | URMA |
| • UPR-200-E-45 | Spill at the corner of Baltimore and 7th St. | URMA |
| • UPR-200-E-72 | East of 241-CR Vault | URMA |
| • UPR-200-E-84 | 241-ER-151 Catch Tank leak unoccupied CA perimeter | URMA |
| • UPR-200-W-115 | URMA along cooper | URMA |
| • UPR-200-W-130 | Line leak at 231-W-131 | URMA |
| • UPR-200-W-14 | 242-T Line leak | URMA |
| • UPR-200-W-161 | Large area East of 241-U Tank Farm | URMA |
| • UPR-200-W-29 | Line break at 23rd and Camden | URMA |
| • UPR-200-W-38 | Line break at 241-TX-302C | URMA |
| • UPR-200-W-64 | Road contamination at 23 rd and Camden | URMA |
| • UPR-200-W-67 | URMA near 2706-T | URMA |
| • UPR-200-W-82 | Contamination spread at 240-S-151 | URMA |

WRPS Site Names

| | | |
|----------------|---|------|
| • UPR-200-W-97 | Transfer Line Leak 23 rd St. and Camden Avenue | URMA |
| • UPR-600-20 | Old Interplant (Cross Site) Transfer Line | URMA |
| • UPR-600-20 | Four separate URMA's including mound near vent station | URMA |
| • 200-E-120 | Large area East of 241-B Tank Farm | URMA |
| • 200-E-133 | URMA on South side of 241-C inside and outside fence | URMA |
| • 200-E-143-PL | URMA North of 244-A Lift station | URMA |
| • 200-E-144-PL | 241-CR-153 to 241-AX-151 | URMA |
| • 200-E-148-PL | 241-C-151 to 241-A-01A | URMA |
| • 200-E-151-PL | 241-C-104 to 241-A-152 | URMA |
| • 200-E-152-PL | 241-C-104 to 241-A-152 | URMA |
| • 200-E-154-PL | 241-C-151 to 241-AX01A Tank Farm Pipeline | URMA |
| • 200-E-155-PL | 241-C East to Buffalo Ave. | URMA |
| • 200-E-207-PL | 241-A to West of 272-AW to 202-A | URMA |
| • 200-E-210-PL | Pipeline from 241-AW Farm to 242-A Evaporator building | URMA |
| • 200-E-211-PL | Pipeline from 241-AW Farm to 242-A Evaporator building | URMA |
| • 200-E-212-PL | Pipelines between 241-AP and 241 AW | URMA |
| • 200-E-218-PL | West of AW-farm | URMA |
| • 200-E-234-PL | Pipeline from 242-A Evaporator to 207-A Basin | URMA |
| • 200-E-275-PL | Cooling water Pipeline & cover block to 216-A-40 | URMA |
| • 200-E-282-PL | Pipelines West from AX-151 then South to 202-A | URMA |
| • 200-E-288-PL | (PC-5000 Transfer line) from 242-A to 207-A Basin to LERF | URMA |
| • 200-E-290-PL | 271-CR to 216-C-8 French Drain | URMA |
| • 200-E-291-PL | 241-C-106 to 241-AY-102 | URMA |
| • 200-W-126 | 241-T South West side | URMA |
| • 200-W-189-PL | SY-101/103 to 219-S | URMA |
| • 200-W-95 | 241-U East side | URMA |
| • 241-A-A | Pipeline from 204-AR East to 241-A-A | URMA |
| • 241-AR-151 | 244-AR North side Diversion Box | URMA |
| • 241-AZ-301 | Transfer line AY101 to AZ-301 DR-AY-1 East of 702-AZ building | URMA |
| • 241-C-154 | East of 209-E big ash pile | URMA |
| • 241-TX-152 | Diversion box East of TY Farm on hill side | URMA |
| • 241-TX-155 | 241-TX East of farm on hill side near rail road tracks | URMA |
| • 241-TX-302B | 241-TX East of farm on hill side near rail road tracks | URMA |
| • 241-TX-302BR | 241-TX East of farm on hill side near rail road tracks | URMA |
| • 2607-EG | 271-CR North East of Control Room | URMA |

WRPS Site Names

| | | |
|-----------------|--|------|
| • 296-A-13 | 291-AR Filter Bldg. Stack | URMA |
| • 600-269 | New cross site transfer line 241-AP to 241-SY | URMA |
| • UPR-200-E-42 | East of 241-AX-151 Mound | URMA |
| • UPR-200-E-67 | Parking area East of 242-A | URMA |
| • UPR-200-E-77 | 241-B-154 Diversion Box spill | URMA |
| • UPR-200-E-78 | 241-BX-155 by Atlanta Avenue | URMA |
| • UPR-200-E-99 | Adjacent to 244-AR Vault | URMA |
| • UPR-200-W-113 | TX-155 area spills | URMA |
| • UPR-200-W-131 | Areas East of TX-155 | URMA |
| • UPR-200-W-167 | 244-A to 241-A-A/-A-B Valve pits N. of 204-AR | URMA |
| • UPR-200-W-28 | TX-155 area spill | URMA |
| • UPR-200-W-5 | South West of 241-TX-155 | URMA |
| • UPR-200-W-50 | Bone yard road | URMA |
| • UPR-200-W-6 | Contamination spread from 241-U-151/ 241-U-152 Diversion Boxes | URMA |
| • UPR-200-W-76 | 241-TX-155 Area | URMA |
| • 200-E-197-PL | 241 BR-152 West to 241-B | URMA |
| • 200-E-208-PL | 241-BY Tank Farm to 241-B-252 Diversion Box | URMA |
| • 200-E-220-PL | 241-BY to 216-BY Flush Tank | URMA |
| • 200-E-225-PL | 241-AR-151 to 241-AY-102 Tank | URMA |
| • 200-E-229-PL | 241-AP-102 and 241-A-B) SN650 | URMA |
| • 242-A | Large URMA behind 242-A Evaporator | URMA |

| | |
|------|---------------------------------------|
| CA | contamination area |
| RA | radiation area |
| SCA | soil contamination area |
| URMA | underground radioactive material area |

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