TRI-PARTY AGREEMENT

Change Notice Number TPA-CN- 0839	TPA CHANGE NOTICE FORM	Date:12/11/18
Document Number, Title, and Revision: DOE/RL-2014-13-ADD1, *Remedial Design Report/Remedial Action Work Plan for 300-FF-2 Soils*, Rev. 1.		Date Document Last Issued: May 2016
Approved Change Notices Against this Document: TPA-CN-0727, TPA-CN-0813		
Originator: Michael **Kruzic**		**Phone:** 373-7685

Description of Change:
DOE/RL-2014-13-ADD1 is amended to reflect the work performed and change in site status at three waste sites (300-5, 331-LSLT1, and 331-LSLT2). References to as-built drawings identifying work performed have been included in Table 1-3 for each site per DOE-RL request.

John Neath/Mark French and Benjamin Simes agree that the proposed change
DOE **Lead Regulatory Agency**
modifies an approved workplan/document and will be processed in accordance with the Tri-Party Agreement Action Plan, Section 9.0, *Documentation and Records,* and not Chapter 12.0, *Changes to the Agreement.*

- Text is revised to reference as-built drawings in Table 1-3 on pages 1-7 and 1-9.
- Text in table 4-1 is updated from "Geomembrane" to "Impermeable Liner."
- Text is added to Table A-1 on pages A-2 and A-15 to reflect that waste sites 300-5, 331-LSLT1, and 331-LSLT2 have been interim stabilized.

NOTE: Two summary sketches indicating the relative boundary of the actions are provided for informational purposes only. The more detailed engineering as-built drawings are referenced in the RDR/RAWP as noted in the description of change above.

Additions are shown using double underline. Deletions are shown using ~~strikeout~~.

Note: Include affected page number(s): 1-7, 1-9, 4-10, A-2, and A-15.

Justification and Impacts of Change:
Interim stabilization activities have been completed at the 300-5, 331-LSLT1, and 331-LSLT2 waste sites. Changes were made to Tables 1-3, 4-1, and A-1 to reflect the work performed and change in site status. Per DOE-RL request, Table 1-3 includes references to the as-built drawing number that identifies stabilization work performed for each site (300-5, 331-LSLT1, and 331-LSLT2).

Approvals:

M French DOE Project Manager	12/13/18 Date	[X] Approved [ ] Disapproved
Ben Simes EPA Project Manager	1/28/19 Date	[X] Approved [ ] Disapproved
N/A Ecology Project Manager	Date	[ ] Approved [ ] Disapproved

A-6005-413 (REV 1)

Table 1-2. 300 Area Waste Sites Affected by Retained Facilities

Waste Site	Facility Interference
300-5, Fire Station Fuel Tanks	3709-A and 3709-B
300-15, Process Sewer System	Multiple facilities and utility corridors
300-121, 3621D Stormwater Runoff Drain	Overhead electrical lines
300-175, 3714 Steam Condensate Trap	3714 Slab and underground utilities
300-214, Retention Process Sewer	Multiple facilities and utility corridors
300-265, Pipe Trench between 324 and 325	324 Complex & 325 Complex
300-269, 331A Building Foundation	331A Building foundation
300-296, Soil Contamination Below the 324 Building	324 Complex[a]
300-RLWS, Radioactive Liquid Waste Sewer	Multiple facilities and utility corridors
300-RRLWS, Retired Radioactive Liquid Waste Sewer	Multiple facilities and utility corridors
331-LSLT-1, Life Sciences Lab Trench 1	331 Complex
331-LSLT-2, Life Sciences Lab Trench 2	331 Complex
UPR-300-10, Unplanned Release	325 Complex
UPR-300-12, Unplanned Release	325 Complex
UPR-300-48, Unplanned Release	325 Complex
325 WTF[b], Waste Storage	325 Complex
400-37, Underground Fuel Oil Tank	4732-B Building
400-38, Underground Fuel Oil Tank	4722-A Building foundation
400 PPSS, 400 Area Process Pond and Sewer System	None[c]

Notes:

a The 324 Complex will be interim retained to support safe remediation of highly contaminated soil at the 300-296 waste site.

b The 325 WTF site is a *Resource Conservation and Recovery Act* treatment, storage, and disposal unit and is not included in the scope of this addendum.

c 400 PPSS is still in use and is not included in the scope of this addendum.

Table 1-3. Waste Sites Impacted by Operating Facilities/Utilities (3 Pages)

Waste Site	Waste Site Name - Impacted By	Current Status	Proposed Stabilization
300-5	Fire Station Fuel Tanks - Impacted by 3709-A and 3709-B Facilities (Fire Station)	Over half is under an existing asphalt parking area, southern portion ~~is native material~~ has been covered with new asphalt barrier. Reference drawing H-3-318496.	~~Place asphalt cap over the southern portion.~~ No additional stabilization actions are required.

Table 1-3. Waste Sites Impacted by Operating Facilities/Utilities (3 Pages)

Waste Site	Waste Site Name - Impacted By	Current Status	Proposed Stabilization
300 RRLWS:2	300 Area Retired Radioactive Liquid Waste Sewer System - Impacted by Multiple Active Facilities/Utilities; See H-3-317397	This waste site piping has already been stabilized by being filled with grout.	No additional stabilization actions are required.
331 LSLT1	Life Sciences Lab Trench No. 1 - Impacted by 331 Facility	This site is 3 separate locations. One is within the 331 facility footprint, one is partially within the 331 facility footprint, and one adjacent to the 331 facility. All were covered by an impermeable liner. Reference drawing H-3-318496.	~~Place asphalt cap over the portions not covered by the 331 facility.~~ No additional stabilization actions are required.
331 LSLT2	Life Sciences Lab Trench No. 2 - Impacted by 331 Facility	Site is adjacent to the 331 facility. Area was covered with an impermeable liner and water diverted away via new catch basin and storm water line. Reference drawing H-3-318496.	~~Place asphalt cap over the site.~~ No additional stabilization actions are required.
316-4	321 Cribs, 300 North Cribs, 316-N-1, 616-4	This site is scheduled to start remediation after 618-10 is complete.	Does not require stabilization due to near term start on remediation.
400 PPSS	400 Area Process Pond & Sewer System - Impacted by Multiple Active Facilities/Utilities; See H-4-38162, H-4-102775 Sheet 1; H-4-152051 Sheets 2, 3, 5	This system receives effluent from 400 area facilities. It is monitored and maintained as an active utility.	No additional stabilization actions are required.
400-37	Fuel Oil Tank - It is partially under the southeast corner of the 4732-B Facility	The site is partially within the 4732-B facility footprint. Most is located in native material.	Place asphalt cap over the portion of the site in native material.
400-38	Fuel Oil Tank - It is near the remaining concrete pad from the former 4722-A Facility	Site is in native material.	Place asphalt cap over the site.
UPR-300-10	Contamination Under 325 Building - Impacted by 325 Facility	Most of the site is within the 325 facility footprint. The rest is under asphalt and concrete adjacent to the building.	No additional stabilization actions are required.
UPR-300-12	Contaminated Soil Beneath 325 Building - Impacted by 325 Facility	Most of the site is within the 325 facility footprint. The rest is under asphalt and concrete adjacent to the building.	No additional stabilization actions are required.
UPR-300-48	325 Building Basement Topsy Pit - Impacted by 325 Facility	This site is currently stabilized by a concrete cap (within the 325 facility footprint).	No additional stabilization actions are required.

Table 4-1. Waste Site Surface Barrier Locations and Construction

Waste Site	Surface Barrier Type	Location
300 RLWS	Asphalt	Primarily east to west under Spruce Street
300 RRLWS	Asphalt	Primarily east to west under Spruce Street
300-5	Asphalt	South side of the 300 Area Fire Station (3790A Building)
300-121	Concrete	Immediately southwest of the former 3621D Building
300-214	Asphalt	Primarily east west under Spruce Street
300-265[a]	Asphalt and concrete	East to west under Spruce Street
331-LSLT1	~~Geomembrane~~ Impermeable Liner	East side of the 331 Building
331-LSLT2	~~Geomembrane~~ Impermeable Liner	East side of the 331 Building
400-37[b]	Asphalt	Southeast side of the 4732B Building
400-38[b]	Asphalt	East side of the 4722A Building foundation

Notes:

a Partial remediation and interim stabilization of the 300-265 site will be delayed until after demolition of the 324 Facility.

b. Waste caps for the 400-37 and 400-38 sites will be delayed until mobilization to the 400 area.

Surface barriers will typically be constructed of asphalt, but similarly impermeable materials (e.g., concrete, water-resistant synthetic membranes) that decrease water infiltration into contaminated soils may also be used. Surface barriers also will be designed to direct surface runoff away from waste sites to the extent practical. Surface barriers are not required for waste sites with interim interferences (i.e., those associated with the 324 Building). Surface barriers are also not required for portions of waste sites abandoned-in-place in areas that have otherwise undergone remediation and revegetation. These portions typically consist of small process sewer segments that remain in place because of active utility interferences or remain in the ground within the operational boundary of an active facility. Surface barriers are also not required if the waste site lies beneath an active facility that already meets the intention of a surface barrier, as listed in Table 4-2. The surface barrier types and locations described in this section are approved by the EPA. Any exception to the installation and maintenance of surface barriers must be approved by the EPA.

Table 4-2. Waste Sites Considered as Interim Stabilized

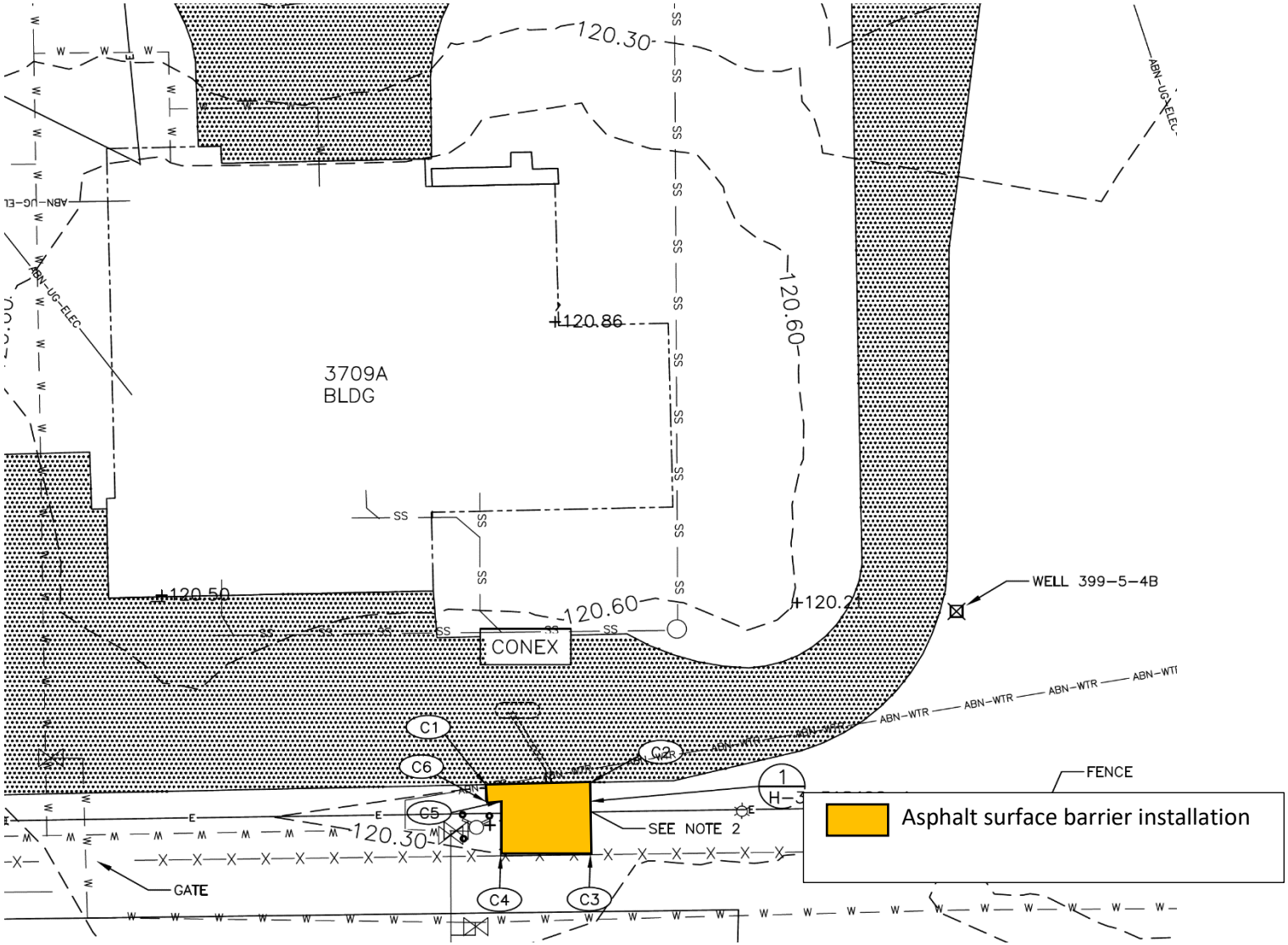
Waste Site	Existing Barrier	Location
300-175	Grouted french drain	South-central 300 Area
300-269	331A Building foundation	Southeast 300 Area
UPR-300-10	325 Building	South-central 300 Area
UPR-300-12	325 Building	South-central 300 Area
UPR-300-48	325 Building	South-central 300 Area

Table A-1. Waste Site Information

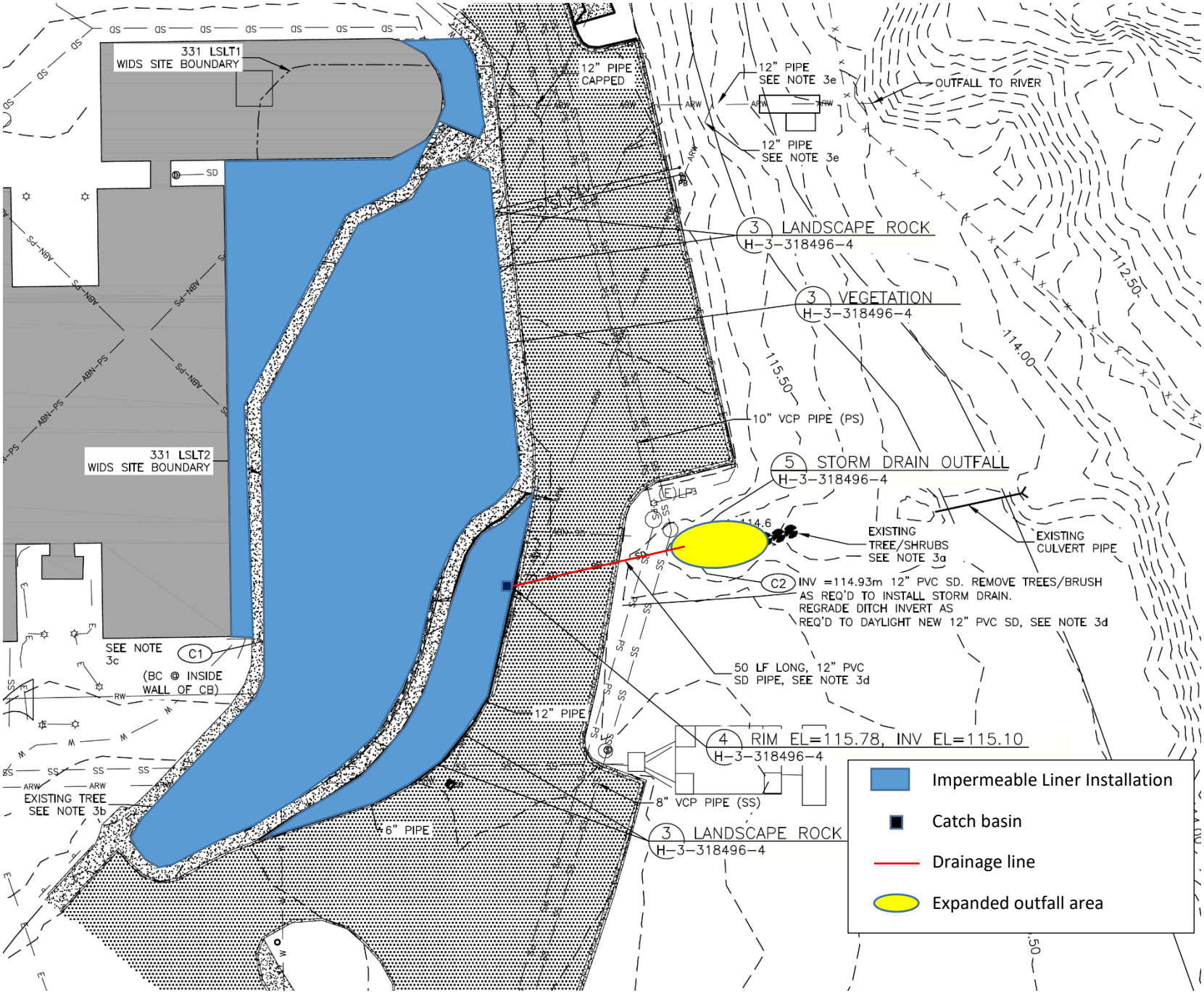
Site Name	Site Information	Site Status
300 RLWS, 300 Area Radioactive Liquid Waste Sewer	Consists of a network of underground, double-encased stainless-steel pipe (encased in reinforced-fiberglass or plastic pipe as secondary containment) draining to the 340 Complex. Replaced the original radioactive liquid sewer (300 RRLWS, Retired Radioactive Liquid Waste Sewer) in 1979.	RTD Waste Site; 300-FF-2 ROD (EPA 2001). 300 Area ROD (EPA 2013), RTD to Industrial Cleanup Levels.
300 RRLWS, 300 Area Retired Radioactive Liquid Waste Sewer System	A network of 5-, 8-, 10-, and 15-cm (2-, 3-, 4-, and 6-in.) single-walled stainless steel piping and carbon steel fittings buried between 3 and 6 m (10 and 20 ft) below grade. A separate 8-cm (3-in.) carbon steel transfer line installed in 1960 connected the 309 Building to the 340 Complex. The system was replaced with the double-encased pipe of the 300 Area Radioactive Liquid Waste System (300 RLWS).	RTD Waste Site; 300-FF-2 ROD (EPA 2001). 300 Area ROD (EPA 2013), RTD to Industrial Cleanup Levels.
300 VTS, 300 Area Vitrification Test Site	The site was used in the 1980s and 1990s as a field demonstration site for the vitrification (glassification) of soils containing waste simulates.	RTD Waste Site; 300-FF-2 ROD (EPA 2001). Site has been remediated and interim closed. See CVP-2005-00009. Unrestricted Land Use per 300-FF-2 ESD (EPA 2004). 300 Area ROD (EPA 2013), No Additional Action.
300-1, Old N. Richland Auto Maintenance Yard	Reclassified to “No Action” by WSRF 98-081, 2/24/1999. No Decision Document.	300 Area ROD (EPA 2013), No Additional Action.
300-2, Contaminated Light Water Disposal	Contaminated Light Water Disposal Site. On September 29, 1965, a major contamination event occurred at the 309 Building, Plutonium Recycle Test Reactor (PRTR). When radionuclide contamination (due to neutron activation) was detected in the secondary coolant water stream going to the Columbia River, the water was pumped to the ground. About 189,250 L (50,000 gal) of secondary coolant water containing short-lived radionuclides was disposed to the ground. At no time did release of reactor material (transuranics or fission products) to the secondary coolant occur. Also see 300-283.	Candidate Waste Site; 300-FF-2 ROD (EPA 2001). Also see 300-283. No Action. WSRF 2013-039, RSVP CCN 171178. 300 Area ROD (EPA 2013), RTD to Industrial Cleanup Levels.
300-4, Substation Soil Contamination	The site consists of the contaminated soil inside the southwest corner of the fenced (active) electrical substation.	RTD Waste Site; 300-FF-2 ROD (EPA 2001). 300 Area ROD (EPA 2013), RTD to Industrial Cleanup Levels.
300-5, Fire Station Fuel Tanks, Fire Station	The site was two underground fuel tanks, the pump island, ancillary piping, and contaminated soil. The tanks were removed in 1992.	RTD Waste Site; 300-FF-2 ROD (EPA 2001). Site has been interim stabilized. 300 Area ROD (EPA 2013), RTD to Industrial Cleanup Levels.

Table A-1. Waste Site Information

Site Name	Site Information	Site Status
316-4, 321 Cribs, 300 North Cribs, 316-N-1, 616-4)	The site consists of two bottomless tanks buried 3 m (10 ft) below grade and resting on gravel strata. The tanks are 0.6 m (2 ft) apart, with a stainless steel overflow pipe connecting them just below the top of each tank. A total of 895.4 kg (1,974 lb) of uranium was discharged to the cribs as uranium-bearing organic wastes from the 321 Building between 1948 and 1954.	RTD Waste Site; 300-FF-2 ROD (EPA 2001). Site partially excavated, tanks removed and backfilled; deep soil contamination remains. Unrestricted Land Use per 300-FF-2 ESD (EPA 2004). 300 Area ROD (EPA 2013), RTD to Residential Cleanup Levels.
316-5, 300 Area Process Trenches	300 Area Process Trenches.	EPA 1996, CVP, BHI-01164 Closed Out, WSRF 98-108. 300 Area ROD (EPA 2013), Enhanced Attenuation.
331 LSLDF, Life Sciences Lab Drain Field	The site consists of an abandoned drain field. The unit is fed by one diversion box and four septic tanks. The unit discharged sanitary wastewater, and potentially animal waste, to the soil column. The site was abandoned in place after the waste system was connected to the 300 Area Sanitary Sewer.	Candidate Waste Site; 300-FF-2 ROD (EPA 2001). No Action; RSVP CCN 141797; WSRF 2008-020. 300 Area ROD (EPA 2013), No Additional Action, Reclassify to Final Status.
331 LSLT1, Life Sciences Lab Trench No. 1	The site is an abandoned leaching trench that has been backfilled. The site was a rectangular excavation and includes connecting waste transfer lines. The 331 Leaching Trenches disposed of sanitary and animal wastes to the soil column.	Candidate Waste Site; 300-FF-2 ROD (EPA 2001). Site has been interim stabilized. 300 Area ROD (EPA 2013), RTD to Industrial Cleanup Levels.
331 LSLT2, Life Sciences Lab Trench No. 2	The site is an abandoned leaching trench that has been backfilled. The site was a rectangular excavation and includes connecting waste transfer lines. The 331 Leaching Trenches disposed of sanitary and animal wastes to the soil column.	Candidate Waste Site; 300-FF-2 ROD (EPA 2001). Site has been interim stabilized 300 Area ROD (EPA 2013), RTD to Industrial Cleanup Levels.
333 ESHWSA, East Side Hazardous Waste Storage Area	The storage area is part of the asphalt paved area near the northeast corner of the 333 Building, within the building fence line. The area provided temporary storage for miscellaneous hazardous wastes in barrels, buckets, cans, and/or drums.	Candidate Waste Site; 300-FF-2 ROD (EPA 2001). Remediated and Interim Closed Out with 618-1. See CVP-2010-00001. 300 Area ROD (EPA 2013), No Additional Action, Reclassify to Final Status.
333 LHWSA	618-1 Burial Ground, 618-1:1, 618-1:2, 333 LHWSA, UPR-300-13, UPR-300-14.	Remediated and Interim Closed Out with 618-1. See CVP-2010-00001. WSRF 2010-028. Reclassify to Final Status.
333-TK-7	300 Area Waste Acid Treatment System (WATS). WSRF 2001-109 CCN 171755. 7/8/2013.	Final Closed Out.
333-TK-11	300 Area Waste Acid Treatment System (WATS). WSRF 2001-105 CCN 171755. 7/8/2013.	Final Closed Out.



Simplified Version of 300-5 Site as-built Drawing H-3-318496 SHT 3



Simplified Version of 331-LSLT1 and 331-LSLT2 as-built Drawing H-3-318496 SHT2