

YAKIMA TRAINING CENTER

Army Cleanup Program

Installation Action Plan Final

June 2024

TABLE OF CONTENTS

STATEMENT OF PURPOSE3

INSTALLATION OVERVIEW4

ACRONYMS5

PHASE TRANSLATION TABLE6

PROGRAM SUMMARY7

SITE-LEVEL INFORMATION8

 1214A.1001_YFCR-01_TVR/OLD MATES 9

 1214A.1030_YFCR-32_BUILDING 815 10

 1214A.1038_YFCR-41_FORMER MATES FACILITY (BLDG. 845)..... 11

 1214A.1039_YFCR-42_MATES FACILITY (BLDG. 951)..... 12

 1214A.1044_YFCR-47_ASP BURN PITS..... 13

 1214A.1047_YFCR-50_LANDFILL/BURN PIT (1954-1968)..... 14

 1214A.1050_YFCR-53_FIRE TRAINING AREA 15

 1214A.1051_YFCR-54_WASHRACK USTS..... 16

 1214A.1066_YFCR-55_WANG DFAC..... 17

 1214A.1068_YFCR-55_PFAS 18

 1214A.1054_YTCR-001-R-01_CANTONMENT - DMM AREA 19

 1214A.1065_CC YTC04_YTC Landfill Compliance Monitor 20

 1214A.1067_CC YTC05_CENTRALIZED FUELING POINT 22

SITE SUMMARY23

SITE CLOSEOUT SUMMARY 24

COMMUNITY INVOLVEMENT 26

FIVE-YEAR / PERIODIC REVIEW SUMMARY 27

STATEMENT OF PURPOSE

The Installation Action Plan (IAP) provides evidence that the Army is firmly committed to expeditious identification and cleanup of environmental contamination, and that the installation has a credible, organized program to carry out that commitment. The IAP provides an outline of the total multi-year environmental cleanup program for each site with ongoing or future planned restoration activity and includes the (1) environmental restoration requirements, (2) the rationale for the selected technical approach, and (3) foundation to develop corresponding financial needs for each cleanup site.

INSTALLATION OVERVIEW

Installation Name: YAKIMA TRAINING CENTER

Installation City: FORT LEWIS

Installation County: YAKIMA, KITTITAS

Installation State: WA

Regulatory Participation - Federal: NA

Regulatory Participation - State: Washington State Department of Ecology

ACRONYMS

Acronym	Definition
AOC	Area of Concern
CC	Compliance-Related Cleanup
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act of 1980
CRL	Cleanup Restoration & Liabilities
DD	Decision Document
DMM	Discarded Military Munitions
ENV	Environmental
FS	Feasibility Study
IR	Installation Restoration
IRA	Interim Remedial Action
LTM	Long-Term Management
LUC	Land Use Control
MATES	Mobilization and Training Equipment Site
MR	Munitions Response
MRSPP	Munitions Response Site Prioritization Protocol
PA	Preliminary Assessment
PFAS	Per- and Polyfluoroalkyl Substances
RA(C)	Remedial Action (Construction)
RA(O)	Remedial Action (Operations)
RC	Response Complete
RCRA	Resource Conservation and Recovery Act
RD	Remedial Design
RI	Remedial Investigation
RIP	Remedy-In-Place
ROD	Record of Decision
RRSE	Relative Risk Site Evaluation
SI	Site Inspection
TCE	Trichloroethylene
TPH	Total Petroleum Hydrocarbons
ug/L	micrograms per liter
UE	Unrestricted Exposure
UST	Underground Storage Tank
UU	Unlimited Use
YTC	Yakima Training Center

PHASE TRANSLATION TABLE

CERCLA Phase	RCRA Phase	RCRA UST Phase
Preliminary Assessment (PA)	RCRA Facility Assessment (RFA)	Initial Site Characterization (ISC)
Site Inspection (SI)	Confirmation Sampling (CS)	Investigation (INV)
Remedial Investigation/ Feasibility Study (RI/FS)	RCRA Facility Investigation/Corrective Measures Study (RFI/CMS)	Corrective Action Plan (CAP)
Remedial Design (RD)	Design (DES)	Design (DES)
Interim Remedial Action (IRA)	Interim Measure (IM)	Interim Remedial Action (IRA)
Remedial Action (Construction) (RA(C))	Corrective Measures Implementation (Construction) (CMI(C))	Implementation (Construction) (IMP(C))
Remedial Action (Operations) (RA(O))	Corrective Measures Implementation (Operations) (CMI(O))	Implementation (Operations) (IMP(O))
Long-Term Management (LTM)	Long-Term Management (LTM)	Long-Term Management (LTM)

PROGRAM SUMMARY

Number of Open Sites with Response Complete/Total Open IR Sites: 3/10

Number of Open Sites with Response Complete/Total Open MR Sites: 0/1

Number of Open Sites with Response Complete/Total Open CC Sites: 1/2

SITE-LEVEL INFORMATION

1214A.1001_YFCR-01_TVR/OLD MATES

Env Site ID: YFCR-01

Cleanup Site: TVR/OLD MATES

Alias: AOC2/AOC5

Regulatory Driver: RCRA-C

RIP Date: 10/15/2010

RC Date: 3/15/2054

RC Reason: Not assigned

SC Date: 3/16/2054

Program: ENV Restoration, Army

Subprogram: IR

NPL Status: No

Hazardous Ranking Score: 0

RRSE:

MRSPP: N/A

Phase	Start	End
RFA:	9/30/1990	6/30/1991
CS:	5/31/1992	8/31/1995
RFI/CMS:	4/30/2002	8/31/2005
DES:	--	--
IRA:	--	--
CMI(C):	9/15/2005	9/15/2005
CMI(O):	10/15/2010	3/15/2054
LTM:	--	--

Site Narrative: YFCR-01 includes the main motor pool former Washrack (area of concern (AOC) 2) and hazardous material storage shed (AOC 5) and the track vehicle repair/Old Mobilization and Training Equipment Site (MATES) groundwater plumes. In accordance with a February 2007 decision document (DD) no further action is needed for AOC 2 and AOC 5. At the May 2004 Installation Action Plan Workshop, the US Army Environmental Command environmental restoration manager decided that track vehicle repair/Old MATES would be administratively addressed as part of YFCR-01 since the furthest downgradient monitoring wells are located near AOC 2 and AOC 5. In accordance with a February 2007 DD the final remedy for the track vehicle repair/Old MATES site is land use controls (LUC) and long-term groundwater monitoring. A periodic review of the Yakima Training Center (YTC) sites was conducted every five years which included YFCR-01. The highest concentration of trichloroethylene (TCE) detected in samples collected to date was 24 micrograms per liter (ug/L). Cleanup/Exit Strategy - Planned work is to conduct semi-annual groundwater monitoring of volatile organics in on-site production and monitoring wells in accordance with the February 2007 DD groundwater monitoring will continue until cleanup levels are reached that is the drinking water levels. Because contaminants will remain at the site at concentrations exceeding levels that allow for unlimited use (UU)/unrestricted exposure (UE) periodic remedy reviews will be completed every five years until UU/UE is achieved.

1214A.1030_YFCR-32_BUILDING 815

Env Site ID: YFCR-32

Cleanup Site: BUILDING 815

Alias: SWMU 5

Regulatory Driver: RCRA-C

RIP Date: 9/30/2006

RC Date: 9/30/2006

RC Reason: All Required Cleanup(s) Completed

SC Date: 3/16/2054

Program: ENV Restoration, Army

Subprogram: IR

NPL Status: No

Hazardous Ranking Score: 0

RRSE:

MRSPP: N/A

Phase	Start	End
RFA:	1/31/1990	6/30/1991
CS:	5/31/1992	8/31/1995
RFI/CMS:	10/31/2004	9/30/2006
DES:	--	--
IRA:	--	--
CMI(C):	--	--
CMI(O):	--	--
LTM:	10/31/2006	3/15/2054

Site Narrative: Former Building 815 (SWMU 5) was located in the Public Works Yard and was used for pesticide storage. Mixing storage rinsing and loading of pesticides occurred inside the northwest corner of the former building and outside the back door (north side) of the building. A site inspection was conducted in 2003 and additional investigation was conducted in 2006. Potentially complete exposure pathways based on the results of the 2003 SWMU 5 sight inspection (SI) report were the potential direct contact leaching to groundwater and terrestrial ecological pathways. However, the leaching to groundwater pathway was demonstrated to be incomplete based on groundwater monitoring data as documented in a 2006 Fort Lewis Installation Restoration Program SI report. In accordance with a February 2007 DD the final remedy for the site is LUCs. The LUCs are administered through the YTC LUC Plan. Cleanup/Exit Strategy - Because contaminants will remain at the site at concentrations exceeding levels that allow for UU/UE periodic remedy reviews will be completed every five years until UU/UE is achieved.

1214A.1038_YFCR-41_FORMER MATES FACILITY (BLDG. 845)

Env Site ID: YFCR-41

Cleanup Site: FORMER MATES FACILITY (BLDG. 845)

Alias: SWMU 43/44

Regulatory Driver: RCRA-C

RIP Date: 9/30/2028

RC Date: 9/30/2028

RC Reason: Not assigned

SC Date: 9/30/2028

Program: ENV Restoration, Army

Subprogram: IR

NPL Status: No

Hazardous Ranking Score: 0

RRSE:

MRSPP: N/A

Phase	Start	End
RFA:	1/31/1995	9/30/1995
CS:	9/30/2019	9/30/2028
RFI/CMS:	--	--
DES:	--	--
IRA:	--	--
CMI(C):	--	--
CMI(O):	--	--
LTM:	--	--

Site Narrative: YFCR-41 the former MATES facility (Building 833 and 845) is also referred to as Track Vehicle Maintenance Facility. It is located in the central part of the cantonment area. This site contained underground storage tanks (UST) which were installed in 1980 and removed in 1991. AOC 24, 25, 26, and 27 - USTs associated with Building 833A and 833bB each 12,000-gallon heating oil tank removed in 1996; Building 833 250-gallon heating oil tank removed in 1996 and Building 845 12000-gallon diesel tank with no closure report. All had soil samples that exceeded the state cleanup criteria for total petroleum hydrocarbons (TPH). Even though removal was recommended by the contractor there is no indication in the files if contaminated soil was removed or if it remains in place. An oil/water separator located immediately north of former USTs is currently used by transient vehicles. On Feb. 13, 2018, a letter from Washington Department of Ecology decided that further action is necessary for YFCR-41. Ecology requested a site inspection to properly delineate petroleum contamination migration into surrounding soil and groundwater.

1214A.1039_YFCR-42_MATES FACILITY (BLDG. 951)

Env Site ID: YFCR-42

Cleanup Site: MATES FACILITY (BLDG. 951)

Alias: SWMU 18

Regulatory Driver: RCRA-C

RIP Date: 9/30/2028

RC Date: 9/30/2028

RC Reason: Not assigned

SC Date: 9/30/2028

Program: ENV Restoration, Army

Subprogram: IR

NPL Status: No

Hazardous Ranking Score: 0

RRSE:

MRSPP: N/A

Phase	Start	End
RFA:	1/31/1995	3/31/1996
CS:	2/13/2018	9/30/2028
RFI/CMS:	--	--
DES:	--	--
IRA:	--	--
CMI(C):	--	--
CMI(O):	--	--
LTM:	--	--

Site Narrative: The MATES Facility Building 951 (SWMU 18) had a waste battery storage room with a drain in the floor that discharged to an unknown location and was investigated for the 1995 Resource Conservation and Recovery Act (RCRA) facility assessment preliminary assessment report for YTC in Yakima Washington. According to the 1995 RCRA facility assessment report the potential for release to air surface water groundwater and soil are unknown since it is unknown where the drain discharges. On Feb. 13, 2018, a letter from Washington Department of Ecology decided that further action is necessary for SWMU 18. Ecology requested confirmation sampling to properly delineate contamination migration around the former floor drain discharge outlet into surrounding air soil and groundwater.

1214A.1044_YFCR-47_ASP BURN PITS

Env Site ID: YFCR-47

Cleanup Site: ASP BURN PITS

Alias: SWMU 27

Regulatory Driver: RCRA-C

RIP Date: 1/31/2005

RC Date: 1/31/2005

RC Reason: All Required Cleanup(s) Completed

SC Date: 3/16/2054

Program: ENV Restoration, Army

Subprogram: IR

NPL Status: No

Hazardous Ranking Score: 0

RRSE:

MRSPP: N/A

Phase	Start	End
RFA:	1/31/1995	10/31/1995
CS:	--	--
RFI/CMS:	1/31/1998	1/31/2005
DES:	--	--
IRA:	--	--
CMI(C):	--	--
CMI(O):	--	--
LTM:	10/31/2006	3/15/2054

Site Narrative: The Ammunition Supply Point Burn Pits Site (SWMU 27) was included in the 1995 RCRA act facility assessment because ammunition packing materials including wood that was reportedly treated with pentachlorophenol were burned in unlined burn pits. Four burn pits each having a dimension of approximately 100 feet by 20 feet were apparently used from an unknown start date until they were backfilled with soil in 1985. In accordance with a February 2007 DD the final remedy for the site is LUCs. The LUCs are administered through the YTC LUC Plan. Cleanup/Exit Strategy - Because contaminants will remain at the site at concentrations exceeding levels that allow for UU/UE periodic remedy reviews will be completed every five years until UU/UE is achieved.

1214A.1047_YFCR-50_LANDFILL/BURN PIT (1954-1968)

Env Site ID: YFCR-50

Cleanup Site: LANDFILL/BURN PIT (1954-1968)

Alias: SWMU 57

Regulatory Driver: RCRA-C

RIP Date: 9/30/2006

RC Date: 9/30/2006

RC Reason: All Required Cleanup(s) Completed

SC Date: 3/16/2054

Program: ENV Restoration, Army

Subprogram: IR

NPL Status: No

Hazardous Ranking Score: 0

RRSE:

MRSPP: N/A

Phase	Start	End
RFA:	1/31/1995	1/31/1996
CS:	--	--
RFI/CMS:	1/31/2002	9/30/2006
DES:	--	--
IRA:	--	--
CMI(C):	--	--
CMI(O):	--	--
LTM:	10/31/2006	3/15/2054

Site Narrative: The 1954-1968 Landfill/Burn Pits (SWMU 57) consists of seven unlined pits that received burned waste generated between 1954 and either 1968 or 1974. Investigations in 2003 and 2006 indicated that the only complete exposure pathway is direct contact; however, the direct contact pathway does not pose an unacceptable risk or hazard given the current and future land use. In accordance with a February 2007 DD the final remedy for the site is LUCs to prevent residential use and unplanned excavations. A revised DD to extend the LUC boundaries is pending signature. The LUCs are administered by YTC LUC Plan. Cleanup/Exit Strategy - Because contaminants will remain at the site at concentrations exceeding levels that allow for UU/UE periodic remedy reviews will be completed every five years until UU/UE is achieved.

1214A.1050_YFCR-53_FIRE TRAINING AREA

Env Site ID: YFCR-53

Cleanup Site: FIRE TRAINING AREA

Alias: SWMU 59

Regulatory Driver: RCRA-C

RIP Date: 9/30/2004

RC Date: 3/15/2054

RC Reason: Not assigned

SC Date: 3/16/2054

Program: ENV Restoration, Army

Subprogram: IR

NPL Status: No

Hazardous Ranking Score: 0

RRSE:

MRSPP: N/A

Phase	Start	End
RFA:	1/31/1995	10/31/1995
CS:	--	--
RFI/CMS:	1/31/1998	12/31/2001
DES:	1/31/2002	3/31/2003
IRA:	--	--
CMI(C):	4/30/2003	9/30/2004
CMI(O):	9/30/2004	3/15/2054
LTM:	--	--

Site Narrative: The former Fire Training Pit site (SWMU 59) was apparently used two or three times per year to practice extinguishing fires. The start date for this practice is unknown but except for a single training event in 1990 it concluded in 1987. Apparently common practice for each event was to saturate the open unlined earthen pit with water then add and ignite 500 to 1,000 gallons of waste jet propellant number 4, aviation fuel, diesel fuel, or motor gasoline before extinguishing the fire. In the DD the final remedy for the site is LUCs and long-term groundwater monitoring until drinking water cleanup levels are achieved. Cleanup/Exit Strategy - Because hazardous substances pollutants or contaminants will remain at the site at concentrations exceeding levels that allow for UU/UE periodic remedy reviews will be completed every five years until UU/UE is achieved.

1214A.1051_YFCR-54_WASHRACK USTS

Env Site ID: YFCR-54

Cleanup Site: WASHRACK USTS

Alias: SWMU 49/50

Regulatory Driver: RCRA-I

RIP Date: 9/30/2028

RC Date: 9/30/2028

RC Reason: Not assigned

SC Date: 9/30/2028

Program: ENV Restoration, Army

Subprogram: IR

NPL Status: No

Hazardous Ranking Score: 0

RRSE:

MRSPP: N/A

Phase	Start	End
ISC:	9/30/1982	9/30/1983
INV:	9/30/2019	9/30/2028
CAP:	--	--
DES:	--	--
IRA:	--	--
IMP(C):	--	--
IMP(O):	--	--
LTM:	--	--

Site Narrative: The Washrack USTs (YFCR-54) site had several USTs nearby and was investigated for the 1995 RCRA facility assessment preliminary assessment report for YTC in Yakima Washington. According to the 1995 RCRA facility assessment report AOC 15 through 20 were cemented in place but did not have soil or groundwater sampling for TPH. The AOC USTs sites include Building 319A 250-gallon heating oil #2 tank, Building 319B 5000-gallon heating oil #2 tank, Building 323 5,000-gallon heating oil #2 tank, Building 323 250-gallon heating oil #2 tank, Building 321 5000-gallon heating oil #2 tank, and Building 321 250-gallon heating oil #2 tank. On Feb. 13, 2018, a letter from Washington Department of Ecology decided that further action is necessary for YFCR-54. Ecology requested confirmation sampling to properly delineate petroleum contamination migration into surrounding soil and groundwater.

1214A.1066_YFCR-55_WANG DFAC

Env Site ID: YFCR-55

Cleanup Site: WANG DFAC

Alias: #

Regulatory Driver: CERCLA

RIP Date: 12/15/2054

RC Date: 12/15/2054

RC Reason: Not assigned

SC Date: 12/16/2054

Program: ENV Restoration, Army

Subprogram: IR

NPL Status: No

Hazardous Ranking Score: 0

RRSE: Not Evaluated

MRSPP: N/A

Phase	Start	End
PA:	2/28/2015	3/30/2015
SI:	4/30/2015	1/25/2017
RI/FS:	6/1/2018	12/15/2054
RD:	--	--
IRA:	--	--
RA(C):	--	--
RA(O):	--	--
LTM:	--	--

Site Narrative: Initially, this site was an unknown landfill found during excavation for a barracks and dining facility. Further studies revealed that the site YFCR-55, WANG DFAC is an extension of the previously studied YFCR-50, Landfill/Burn Pit (1954-1968) SWMU-57. The DD for YFCR-50, SWMU 57 (OGC, 2007) indicates that municipal solid waste generated in the cantonment area and training areas was burned and disposed of in up to seven unlined pits between 1954 and 1968. The DD identified that the selected remedy for YFCR-50, Landfill/Burn Pit (1954-1968) in the vicinity of YFCR-55 was to implement LUCs. The LUCs restricted residential use that could pose unacceptable risk associated with potential use of groundwater. LUCs and periodic reviews, which are completed every five years, for this site are associated with zero cost site YFCR-50 (costs tracked under YFCR-01). During pre-construction geotechnical testing in 2012-2013 for the construction of National Guard barracks adjacent to Building 870, test pits encountered burn residue and waste that appears to be similar to what was encountered within YFCR-50, Landfill/Burn Pit (1954-1968). The results of the geotechnical evaluation indicated that 12 of the 26 test pits completed within and adjacent to the footprint of the proposed National Guard barracks contained buried waste at depths ranging from 1.2 - 8 feet below ground surface; waste thickness ranged from trace - 6.5 feet and, although previous studies indicated that a soil cover exists within YFCR-50, wastes in this area were observed at the surface. These results indicate that the distribution of waste is greater than the previously identified YFCR-50 and further investigation was warranted with a SI, which was finalized in January 2017. The results indicated that additional investigation was warranted, and the remedial investigation (RI)/ feasibility study (FS) report was completed in 2020 with DD currently pending. After a detailed comparative analysis and quantitative ranking, the FS concluded that "Institutional Controls (Alternative 2)" is the most desired alternative and recommended cleanup action alternative. The proposed plan will be completed, and current DD will be revised. Cleanup/Exit Strategy - Current plans described in a draft DD (pending signature) are to move forward with institutional controls as recommended in the FS.

1214A.1068_YFCR-55_PFAS

Env Site ID: YFCR-55

Cleanup Site: PFAS

Alias: #

Regulatory Driver: CERCLA

RIP Date: 9/30/2035

RC Date: 9/30/2035

RC Reason: Not assigned

SC Date: 9/30/2035

Program: ENV Restoration, Army

Subprogram: IR

NPL Status: No

Hazardous Ranking Score: 0

RRSE:

MRSPP: N/A

Phase	Start	End
PA:	9/30/2017	9/15/2019
SI:	12/15/2019	10/27/2021
RI/FS:	10/1/2021	9/30/2035
RD:	--	--
IRA:	10/1/2021	9/30/2035
RA(C):	--	--
RA(O):	--	--
LTM:	--	--

Site Narrative: Per direction from DCS G-9 site created to account for all per- and polyfluoroalkyl substances (PFAS) costs at the installation. A total of 10 potential areas of PFAS release were evaluated during the preliminary assessment (PA). Following the evaluation three areas of potential interest were identified. The PFAS source types identified during this PA at YTC are the two former firefighter training areas (YFCR-53 Former Fire Training Pit and the Bird Bath Vehicle Wash Rack/Formal Fire Training Pit Area [Building 868]) and a fire nozzle testing area (Refractometer Solutions Testing Area [Building 323]). The RI/FS is currently underway. Interim remedial actions being implemented include providing bottled water and whole home filtration systems for PFAS affected off base domestic water supplies.

1214A.1054_YTCR-001-R-01_CANTONMENT - DMM AREA

Env Site ID: YTCR-001-R-01

Cleanup Site: CANTONMENT - DMM AREA

Alias: #

Regulatory Driver: RCRA-C

RIP Date: 3/15/2015

RC Date: 3/15/2054

RC Reason: Not assigned

SC Date: 3/16/2054

Program: ENV Restoration, Army

Subprogram: MR

NPL Status: No

Hazardous Ranking Score: 0

RRSE: N/A

MRSPP: 9

Phase	Start	End
RFA:	12/20/2002	7/24/2003
CS:	6/30/2006	5/31/2008
RFI/CMS:	5/15/2008	3/15/2015
DES:	--	--
IRA:	--	--
CMI(C):	3/15/2014	3/15/2015
CMI(O):	3/15/2015	3/15/2054
LTM:	--	--

Site Narrative: This munitions response site encompasses about one acre in the southwest portion of the cantonment area. The munitions response site includes a developed area of barracks streets and other infrastructures i.e., aboveground steam and electrical pipes and buried water and sewer lines. Structures occupying the area include Buildings 216, 217, and 218. According to personal interviews with YTC personnel the area around Buildings 217 and 218 was used as a discarded military munitions (DMM) area during 1941-1951. The first discovery of buried munitions reportedly occurred in the early-1950s. In 1987 or 1988 bangalore torpedoes and bazooka rockets were discovered on the west side of Building 217. This site was originally identified as YFCR-52 in the 1995 RCRA facility assessment but was moved to the Military Munitions Response Program in 2004. Site YFCR-52 has been closed. No evidence of DMM was discovered in undisturbed areas of the site during a 2004 geophysical investigation. However, the possibility of DMM exists under the concrete slab buildings. Thus, the Joint Base Lewis-McChord environmental restoration program has implemented LUCs on possible future building demolition. Cleanup/Exit Strategy - Because hazardous substances pollutants or contaminants will remain at the site at concentrations exceeding levels that allow for UU/UE periodic remedy reviews will be completed every five years until UU/UE is achieved.

1214A.1065_CC YTC04_YTC Landfill Compliance Monitor

Env Site ID: CC YTC04

Cleanup Site: YTC Landfill Compliance Monitor

Alias: #

Regulatory Driver: RCRA-D

RIP Date: 9/30/1995

RC Date: 9/30/1995

RC Reason: All Required Cleanup(s) Completed

SC Date: 9/16/2054

Program: Compliance-related Cleanup

Subprogram: CC

NPL Status: No

Hazardous Ranking Score: 0

RRSE: N/A

MRSPP:

Phase	Start	End
RFA:	1/31/1995	9/30/1995
CS:	--	--
RFI/CMS:	--	--
DES:	--	--
IRA:	--	--
CMI(C):	--	--
CMI(O):	--	--
LTM:	7/31/1997	9/15/2054

Site Narrative: The total area of the Limited Purpose Landfill and closed Municipal Solid Waste Landfill is approximately five acres. The Limited Purpose Landfill and closed Municipal Solid Waste Landfill are enclosed by a fence with a locked gate. Access through the gate is controlled by YTC certified landfill operators with YTC public works. The Limited Purpose Landfill and closed Municipal Solid Waste Landfill are surrounded by undeveloped land for approximately 3,000 feet to the west and over 10,000 feet to the northeast and south. No residences or perennial surface water is located within a mile of the Limited Purpose Landfill. Rainfall in the area averages just over eight inches per year. Evapotranspiration is estimated at 25 to 57 inches per year for Yakima. Because of the arid climate at YTC groundwater recharge via precipitation is limited. The potential groundwater receptors nearest to the landfill are two domestic water supply wells (Pomona Well and Pomona Artesian Irrigation Company Well) located approximately 1.5 miles northwest of the landfill. Groundwater monitoring is required in accordance with Washington Administrative Code 173-350-500. In late 2006 Washington State Department of Ecology notified the Yakima County Health District that the groundwater monitoring program was inadequate. The Health District in turn notified YTC in June 2007. A well installation and groundwater monitoring program was accepted by Washington State Department of Ecology. In late 2006 Washington Department of Ecology notified the Yakima County Health District that the groundwater monitoring program was inadequate. The Health District in turn notified YTC in June 2007. YTC staff is working to bring the landfill into compliance for groundwater monitoring and to begin conducting regular groundwater monitoring events. A well installation and groundwater monitoring program has been accepted by Ecology. Three new monitoring were constructed on March 20-21, 2009. Sampling for background conditions was completed in 2010. Per Ecology guidance addition monitoring wells will be installed to better delineate the contamination. Regular quarterly monitoring is ongoing as well as land use controls. Primary contaminants of concern are iron and manganese. Land use restrictions on future residential land use and future excavation activities are implemented at the site to address the potential direct contact of compounds of concern.

Cleanup/Exit Strategy - Continue monitoring while landfill is active and for 20 years after closure per state landfill regulations. It is unknown how long the landfill will be active; therefore a 30-year time period is assumed. Because the future land use will remain industrial and hazardous substances, pollutants, or contaminants will remain at the site at concentrations exceeding levels that allow for UU/UE, periodic remedy reviews will continue indefinitely at a rate of one periodic review every five years. LUCs will be implemented. Joint Base Lewis-McChord will also decommission monitoring wells at the conclusion of monitoring.

1214A.1067_CC YTC05_CENTRALIZED FUELING POINT

Env Site ID: CC YTC05

Cleanup Site: CENTRALIZED FUELING POINT

Alias: #

Regulatory Driver: RCRA-C

RIP Date: 4/3/2009

RC Date: 9/15/2043

RC Reason: Not assigned

SC Date: 9/16/2054

Program: Compliance-related Cleanup

Subprogram: CC

NPL Status: No

Hazardous Ranking Score: 0

RRSE: N/A

MRSPP:

Phase	Start	End
RFA:	6/15/2008	10/15/2008
CS:	10/20/2008	5/4/2009
RFI/CMS:	--	--
DES:	--	--
IRA:	--	--
CMI(C):	11/15/2008	4/3/2009
CMI(O):	11/15/2008	9/15/2054
LTM:	--	--

Site Narrative: The Centralized Fueling Point is located about 4.5 miles east of the main cantonment area on Firing Center Road. It was constructed in 2002 and consists of three 125,000-gallon aboveground fuel tanks and three fueling islands. The entire facility is covered with either concrete or asphalt. Fuel lines from the tanks to the dispensers are contained in concrete conduit vaults with provide secondary containment. Depth to bedrock is about six feet and consists of fractured basalt. In 2008 a 2,800-gallon fuel spill occurred. The majority of the fuel evaporated but an unknown quantity leaked through the joints of the concrete vaults. An assessment was conducted in 2008. A vapor survey indicated that only low concentrations of TPH-diesel were present under the slab. Contaminants of potential concern were detected at concentrations above Model Toxics Control Act cleanup levels for unrestricted land use in soil beneath the concrete fuel island. During the October 2008 confirmation sampling the joints in the vaults were resealed. At that time a monitoring well was also drilled through the basalt to the silt interbed. No groundwater was encountered. It was assumed that a large portion of the spill may have evaporated and that the remaining fuel infiltrated into the extensive fractured basalt system under the site where recovery is not possible. A draft RCRA Subtitle C Part B permit completion report proposes to periodically monitor for groundwater and to implement a land use control that would require investigation and/or remediation of the soils under the concrete dispenser island if and when the facility is demolished. Cleanup/Exit Strategy - LUC management will be performed. Because hazardous substances pollutants or contaminants will remain at the site at concentrations exceeding levels that allow for UU/UE periodic remedy reviews will be completed every five years until UU/UE is achieved.

SITE SUMMARY

SITE CLOSEOUT SUMMARY

CRL ID	Site Name	Site Closeout Date
1214A.1002	YFCR-02_SEWAGE TREATMENT PLANT LAB	3/31/1996
1214A.1003	YFCR-03_PHOTO LAB	6/30/1991
1214A.1004	YFCR-04_RANGE 1 (RIFLE)	3/31/1996
1214A.1005	YFCR-06_RANGE 3 (PISTOL)	3/31/1996
1214A.1006	YFCR-07_RANGE 4 (TANK GUNNERY)	3/31/1996
1214A.1007	YFCR-08_RANGE 5 (TANK GUNNERY)	3/31/1996
1214A.1008	YFCR-09_RANGE 7 (M79/203)	3/31/1996
1214A.1009	YFCR-10_RANGE 8 (M79/203 TRNG)	10/31/1995
1214A.1010	YFCR-11_RANGE 9 (HAND GRENADE)	3/31/1996
1214A.1011	YFCR-12_RANGE 10 (TPT AMMO)	3/31/1996
1214A.1012	YFCR-13_RANGE 10Z (UNK)	3/31/1996
1214A.1013	YFCR-14_RANGE 11 (M16/M60)	3/31/1996
1214A.1014	YFCR-15_RANGE 12 (M60)	3/31/1996
1214A.1015	YFCR-16_RANGE 13 (AERIAL GUNNERY)	3/31/1996
1214A.1016	YFCR-17_RANGE 14 (106 REC RIFLE)	3/31/1996
1214A.1017	YFCR-18_RANGE 15 (TANK GUNNERY)	3/31/1996
1214A.1018	YFCR-19_RANGE 16 (AERIAL)	3/31/1996
1214A.1019	YFCR-20_RANGE 17 (AERIAL GUNNERY)	3/31/1996
1214A.1020	YFCR-21_RANGE 19 (AIR DEFENSE)	3/31/1996
1214A.1021	YFCR-22_RANGE 20 (UNK)	3/31/1996
1214A.1022	YFCR-24_RANGE 22 (AERIAL GUNNERY)	3/31/1996
1214A.1023	YFCR-25_RANGE 22C (UNK)	3/31/1996
1214A.1024	YFCR-26_RANGE 23 (SQUAD)	3/31/1996
1214A.1025	YFCR-27_RANGE 24 (BTN SIZE)	9/30/1983
1214A.1026	YFCR-28_RANGE 26 (TANK GUNNERY)	9/30/1983
1214A.1027	YFCR-29_RANGE 27 (AERIAL GUNNERY)	3/31/1996
1214A.1028	YFCR-30_RANGE 28 (DEMO AREA)	3/31/1996
1214A.1029	YFCR-31_RANGE 30 (UNK)	3/31/1996
1214A.1031	YFCR-33_SANITARY WASTE TREATMENT PLANT	3/31/1996
1214A.1032	YFCR-34_VEHICLE WASHRACK	9/30/2006
1214A.1033	YFCR-35_SOLID WASTE LANDFILL	8/31/1995
1214A.1034	YFCR-36_ACTIVE RANGE NO. 4	3/31/1996
1214A.1035	YFCR-37_ACTIVE RANGE NO. 1	3/31/1996
1214A.1036	YFCR-39_BURN AREAS (AT ARTILLERY FIRING	3/31/1996
1214A.1037	YFCR-40_RANGE 2 (PISTOL & MG)	3/31/1996
1214A.1040	YFCR-43_TANK MAINTENANCE (BLDG. 851)	9/30/1995
1214A.1041	YFCR-44_VEHICLE MAINTENANCE (BLDG. 806)	9/30/1995
1214A.1042	YFCR-45_JP-4 BLADDER SITE (NEAR BLDG. 45)	11/30/1996
1214A.1043	YFCR-46_AMMUNITION STORAGE POINT	9/30/2003
1214A.1045	YFCR-48_PESTICIDE STORAGE (BLDG. 975)	10/31/1995
1214A.1046	YFCR-49_ORIGINAL LANDFILL (PRE-1954)	9/30/2007
1214A.1048	YFCR-51_LANDFILL PITS (1968-1969)	5/31/2003

CRL ID	Site Name	Site Closeout Date
1214A.1049	YFCR-52_BURIED MUNITIONS AREA (BLDG. 217	10/31/1995
1214A.1052	YTCR-005-R-01_RANGE #10	7/24/2003
1214A.1053	YTCR-003-R-01_RANGE #1, #3 AND #4	7/24/2003
1214A.1055	YTCR-007-R-01_RANGE #8	7/24/2003
1214A.1056	YTCR-006-R-01_RANGE #5, #6 AND #7	7/24/2003
1214A.1057	YTCR-004-R-01_RANGE #1, #4 - TD	5/31/2008
1214A.1058	YTCR-008-R-01_RANGE #8A	7/24/2003
1214A.1059	YTCR-002-R-01_RANGE #1	5/31/2008
1214A.1060	YTCR-009-R-01_SFOD Range	5/31/2008
1214A.1061	YTCR-010-R-01_SFOD/KDP Range	5/31/2008
1214A.1062	CC YTC01_YTC Misc Small RCRA CA Sites	9/30/2007
1214A.1063	CC YTC02_White Phosphorus Pit (SWMU 60)	9/30/2006
1214A.1064	CC YTC03_Well Decommissioning at OB/OD Un	6/30/2007

COMMUNITY INVOLVEMENT

Community Involvement Plan (Date Last Reviewed):	10/23/2018
Technical Review Committee Establishment Date:	N/A
Restoration Advisory Board (RAB) Establishment Date:	N/A
RAB Adjournment Date:	N/A
RAB Adjournment Reason:	N/A
Reasons for Not Establishing RAB:	TRC Operating (no RAB by choice)
RAB Date of Solicitation from Community:	08/30/2023
RAB Results of Solicitation:	11 RAB interest forms submitted 08/30/2023. Insufficient interest in RAB formation at this time.
Current Technical Assistance for Public Participation (TAPP):	N/A
TAPP Title:	N/A
Potential TAPP:	N/A
Administrative Record Location:	Public Works-ED, IMWE-PWE, MS 17, Box 33950, Joint Base Lewis-McChord
Information Repository Location:	Yakima Public Library

FIVE-YEAR / PERIODIC REVIEW SUMMARY

Status	Review Type	Start Date	End Date	Plans Narrative	Actions Narrative	Results Narrative
Planned	PR	3/30/2026	3/10/2027	N/A	N/A	N/A
Completed	PR	3/30/2021	3/31/2024	<p>Potential exposures to contaminated media are controlled by preventing new water supply wells, implementing/maintaining LUCs, preventing residential land use, preventing unplanned excavations, and inspecting/maintaining sites on an annual basis. The next periodic review will be completed on March 10, 2027, 5 years after the missed signature deadline for the previous periodic review.</p>	<p>To ensure future protectiveness at YFCR-53, conduct the investigations necessary to define the nature and extent of PFAS contamination to determine the associated exposure risks and mitigate pathways where exposure greater than risk screening levels are identified.</p>	<p>The remedies in place at the YTC for the YFCR-01; YFCR-32; YFCR-47; and YFCR-52, and YFCR-53 SWMUs are protective of human health and the environment. For YFCR-53, a removal action was identified to mitigate exposure to PFOS and PFOA in groundwater greater than screening levels and in the interim, control exposure pathways that could result in unacceptable risks.</p>