

Department of Energy

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INTIALS: _____

Mr. David Ruckstuhl, Prime Contracts Manager Four Rivers Nuclear Partnership, LLC 5511 Hobbs Road Kevil, Kentucky 42053 PPPO-02-10029219-25

Dear Mr. Ruckstuhl:

DE-EM0004895: APPROVAL OF DELIVERABLE NO. 43, FINAL GROUNDWATER PROTECTION PLAN, CP2-ES-1000/FR1

Reference: Letter from M. Redfield to J. Stokes, "Four Rivers Nuclear Partnership, LLC— Deliverable No. 43—FINAL *Groundwater Protection Plan for the Paducah Gaseous Diffusion Plant, Paducah, Kentucky,* CP2-ES-1000/FR1," (FRNP-24-8691), dated September 18, 2024

The U.S. Department of Energy (DOE) reviewed and approves the Four Rivers Nuclear Partnership, LLC final *Groundwater Protection Plan for the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, CP2-ES-1000/FR1, as submitted.

If you have any questions or require additional information, please contact Angus MacKelvey at (270) 349-7526.

Sincerely,

Jennifer A. Stokes Contracting Officer Portsmouth/Paducah Project Office

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CP2-ES-1000/FR1

Groundwater Protection Plan for the Paducah Gaseous Diffusion Plant, Paducah, Kentucky

CLEARED FOR PUBLIC RELEASE

CP2-ES-1000/FR1

Groundwater Protection Plan for the Paducah Gaseous Diffusion Plant, Paducah, Kentucky

Date Issued—September 2024

Prepared for the U.S. DEPARTMENT OF ENERGY Office of Environmental Management

Prepared by FOUR RIVERS NUCLEAR PARTNERSHIP, LLC, managing the Deactivation and Remediation Project at the Paducah Gaseous Diffusion Plant under Contract DE-EM0004895

CLEARED FOR PUBLIC RELEASE

APPROVALS

Groundwater Protection Plan for the Paducah Gaseous Diffusion Plant, Paducah, Kentucky

CP2-ES-1000/FR1

September 2024

Approved by:

Bruce Ford/Date Environmental Services Director, FRNP

Myrna E. Redfield/Date Program Manager, FRNP

DOE Approval Letter:

Date: _____

Effective Date:
Required Review Date:
Nuclear Safety Documentation:

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REVISION LOG

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ACRONYMS

AFFF	aqueous film-forming foam
AOC	area of concern
BMP	best management practices
CAT	consolidated annual training
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
D&R	deactivation and remediation
DOE	U.S. Department of Energy
DOT	U.S. Department of Transportation
EIC	environmental information center
EM	environmental management
EMP	environmental monitoring plan
EMS	environmental management system
EPA	U.S. Environmental Protection Agency
ERH	electrical resistance heating
ERPP	environmental radiation protection program
FFA	Federal Facility Agreement
FRNP	Four Rivers Nuclear Partnership, LLC
GET	general employee training
GPP	groundwater protection plan
HAZMAT	hazardous material
IROD	interim record of decision
KAR	Kentucky Administrative Regulations
KDEP	Kentucky Department for Environmental Protection
KDWM	Kentucky Division of Waste Management
KPDES	Kentucky Pollutant Discharge Elimination System
KRS	Kentucky Revised Statutes
LCD	lower continental deposit
MW	monitoring well
N/A	not applicable
NFA	no further action
0	order
OU	operable unit
PFAS	per- and polyfluoroalkyl substances
RACR	remedial action completion report
RCRA	Resource Conservation and Recovery Act
RGA	Regional Gravel Aquifer
ROD	record of decision
SWMU	solid waste management unit
TPD	training position description
UCD	upper continental deposit
UCRS	Upper Continental Recharge System
UST	underground storage tank
VOC	volatile organic compound

EXECUTIVE SUMMARY

The U.S. Department of Energy prepared and began implementation of a groundwater protection plan (GPP) in August 1995 for the Paducah Gaseous Diffusion Plant. This document presents the revision to the 2021 version of the GPP (FRNP 2021). Stated in 401 *KAR* 5:037 § 3(3), *Review and recertification of groundwater protection plans*, is the following requirement regarding the review of the GPP.

Each groundwater protection plan shall be reviewed in its entirety every three (3) years, by the persons responsible for the plan, updated if necessary, and recertified. To the extent possible, the review shall include a reevaluation of the design and operation procedures for the pollution prevention practices previously selected for the plan to ensure that they are effective.

This GPP incorporates revisions resulting from the three-year review required by 401 *KAR* 5:037 § 3(3). This document addresses the following specific requirements listed in 401 *KAR* 5:037 § 2(3), *Elements of generic and site-specific groundwater protection plans*, and the guidance document *Preparing a Groundwater Protection Plan*, (KDEP 2018) relating to 401 *KAR* 5:037 § 2(3)(a) through (g): (1) general information regarding the facility and its operation; (2) identification of activities associated with the facility as identified in Section 1(1) of the regulation; (3) identification of all practices chosen for the plan to protect groundwater from pollution; (4) implementation schedules for the protection practices; (5) description of and implementation schedule for employee training necessary to ensure implementation of the plan; (6) schedule of required inspections, as applicable to ensure that all practices established are in place and properly functioning; and (7) certification of the plan by the appropriate Paducah Site representative and that the person responsible for implementing the plan has reviewed the terms of the plan and will implement its provisions.

1. GENERAL INFORMATION

This groundwater protection plan (GPP) has been written in accordance with 401 KAR 5:037, Groundwater protection plans, to ensure protection for all current and future uses of groundwater and to prevent additional groundwater pollution at the following facility.

Name and Address of Facility

Paducah Gaseous Diffusion Plant 5600 Hobbs Road Kevil, Kentucky 42053 McCracken County Latitude 37°6'41.95" and Longitude 88°48'46.09"

Person Developing GPP

Program Manager Four Rivers Nuclear Partnership, LLC 5511 Hobbs Road Kevil, Kentucky 42053 Phone: (270) 441-6412

Person Responsible for Implementing GPP

Manager Portsmouth/Paducah Project Office U.S. Department of Energy 1017 Majestic Drive, Suite 200 Lexington, Kentucky 40513 Phone: (859) 219-4010

This plan will be implemented under the direction of the U.S. Department of Energy (DOE) Manager, Portsmouth/Paducah Project Office, and is applicable to activities performed by DOE and its contractors/representatives at the Paducah Site. In support of DOE, this plan was developed by Four Rivers Nuclear Partnership, LLC, (FRNP) and is implemented by DOE and its current contractors:

- DOE, 5501 Hobbs Road, Kevil, Kentucky 42053, (270) 441-6800
- FRNP [Deactivation and Remediation (D&R) Contractor], 5511 Hobbs Road, Kevil, Kentucky 42053, (270) 441-6412
- Swift & Staley Inc. (Infrastructure Contractor), 5505 Hobbs Road, Kevil, Kentucky 42053, (270) 441-5270
- Mid-America Conversion Services, LLC, [Depleted Uranium Hexafluoride (DUF₆) Conversion Project Contractor] 1020 Monarch Street, Suite 300, Lexington, Kentucky 40513, (859) 685-9268

As required by 401 *KAR* 5:037 § 3(3), this GPP is to be reviewed every three years. Records associated with GPP implementation [e.g., Resource Conservation and Recovery Act (RCRA) facility inspections, C-404 sump integrity tests, storm water inspections, waste inspections] will be retained for a period of at least six years after their preparation. Reference documents listed herein are available through the DOE Environmental Information Center (EIC) located at 5100 Alben Barkley Drive, Emerging Technology

Center, Room 221, Paducah, Kentucky, or the Paducah EIC website (<u>https://eic.pad.pppo.gov/</u>). Records of GPP activities are maintained under other programs, as identified in Section 4 of this Plan.

Brief Description of Facility. The Paducah Site is located in western Kentucky and includes a former uranium enrichment facility owned by DOE. Since its initial operation in 1952, the Paducah Site's primary function was the enrichment of the fissionable isotope uranium-235 from natural assay uranium using a gaseous diffusion process with uranium hexafluoride (UF₆). Plant activities have included utility, laboratory, and maintenance support; conversion of uranium dioxide to UF₆ (to feed the diffusion process) and uranium tetrafluoride; metal production from depleted UF₆; and uranium metal processing, metals recovery, and other small operations performed for DOE and the U.S. Department of Defense such as precision machining and protective metal coating application. The Paducah Site also has an enrichment cascade housed in four large process buildings, four sets of cooling towers, phosphate reduction facility, and sanitary and potable water treatment plants.

In August 1988, volatile organic compounds (VOCs) and radionuclides were detected in private water wells north of the Paducah Site, which was placed on the National Priorities List in 1994. Since 1998, DOE, U.S. Environmental Protection Agency (EPA), and Kentucky Department for Environmental Protection (KDEP) have been operating under the Federal Facility Agreement (FFA), with DOE as the lead agency and EPA and KDEP as support agencies providing oversight. The D&R Contractor works with DOE to remove/mitigate past contamination at the Paducah Site.

Appendix A contains four maps and one table that will help the reader identify facilities/areas discussed within this document. Figure A.1 is a comprehensive Paducah Site map and site index. Figure A.2 is a Paducah Site map showing current solid waste management unit (SWMU) locations. Figure A.3 is a map depicting the 2022 trichloroethene (TCE) groundwater plume. Figure A.4 is a map depicting the 2022 technetium-99 (Tc-99) groundwater plume. Table A.1 is Appendix 4 from the Site Management Plan, Gaseous Diffusion Plant. Paducah. Kentucky, Annual *Revision*—*FY* Paducah 2024. DOE/LX/07-2495&D1, showing a SWMU/area of concern (AOC) by operable unit (OU) cross-reference table (DOE 2023). This table identifies each facility or AOC by OU, subproject, SWMU number, and gives a brief description of the facility. In addition, the table provides a list of SWMUs requiring no further action (NFA) and a list of Decontamination and Decommissioning OU facilities identifying current operational status.

2. PHYSICAL CHARACTERISTICS

The Paducah Site limited area is heavily industrialized; however, the area surrounding the plant is mostly agricultural and open land, with some forested areas. The West Kentucky Wildlife Management Area that borders the Paducah Site to the north, west, and south is an important recreational resource. Figures 1 and 2 illustrate the reasonably anticipated future land use and the current mixed industrial and recreational land use of the Paducah Site area, respectively. The geomorphology, geology, and hydrology of this facility and surrounding areas have undergone extensive study, review, and documentation. In-depth area descriptions may be found in numerous other DOE documents describing the DOE property at the Paducah Site.

2.1 GEOMORPHOLOGY

Located in the Jackson Purchase Region of western Kentucky, the Paducah Site lies within the northern tip of the Mississippi Embayment portion of the Gulf Coastal Plain Province (Clausen et al. 1992). The DOE property is characterized by mostly flat areas and low, gently sloped hills (< 50 ft of vertical relief). Drainage patterns are naturally dendritic, but have been modified to follow roads within the area surrounded by the Paducah Site security fence.

2.2 SITE GEOLOGY

The stratigraphic sequence in the region consists of Cretaceous, Tertiary, and Quaternary sediments overlying eroded Mississippian bedrock. Figure 3 shows a columnar section of the geology of the Jackson Purchase Region, and Figure 4 presents a schematic cross section that illustrates regional stratigraphic relationships near the Paducah Site.

Bedrock beneath the Paducah Site is comprised of Mississippian-age limestone. In the vicinity of the Paducah Site, the bedrock is directly overlain by interbedded and interlensing sand, silt, and clay of the Upper Cretaceous McNairy Formation. Data indicate that sand may account for 40-50% of the McNairy Formation at the Paducah Site. The Upper Cretaceous Tuscaloosa Formation, which directly overlies Paleozoic bedrock to the south, has not been encountered during drilling activities conducted at the Paducah Site.

The Paleocene Porters Creek Clay occurs in the southern portions of the site and consists of dark gray to black clay with varying amounts of silt and fine-grained micaceous, commonly glauconitic, sand. The Porters Creek Clay subcrops along a buried terrace slope that extends east-west across the site. Eocene sediments, consisting of interbedded and interlensing sand, silt, and clay, overlie the Porters Creek Clay in the extreme southern portion of the DOE Reservation.

Miocene, Pliocene, and Pleistocene continental deposits unconformably overlie Cretaceous through Eocene strata at the Paducah Site. The thicker sequence of Pleistocene continental deposits represents a valley fill that comprehensively comprises a thick, fining upward sequence. The continental deposits extend from the southern end of the plant to the Ohio River and overlay an unconformity that exhibits steps, or terraces.

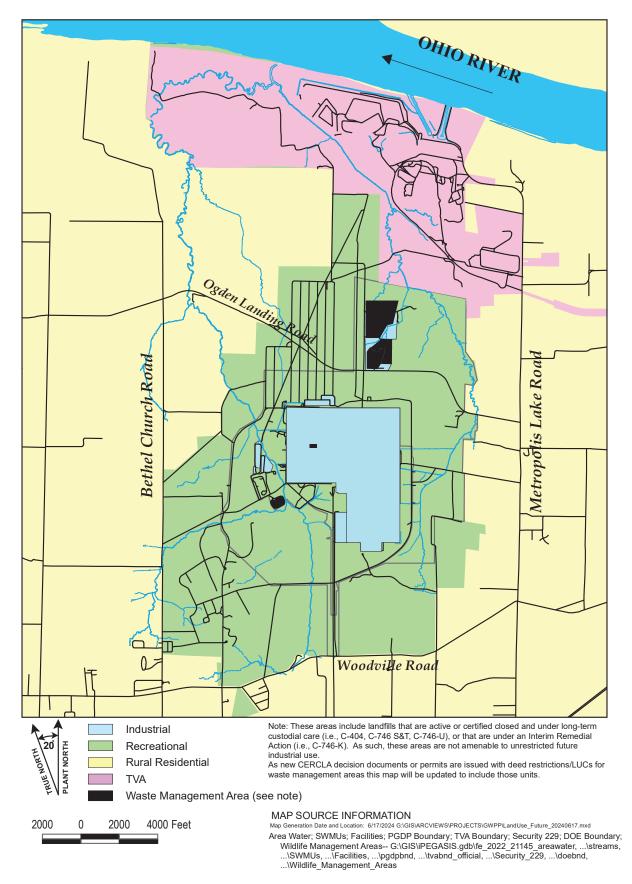


Figure 1. Reasonably Anticipated Future Land Use at the Paducah Site

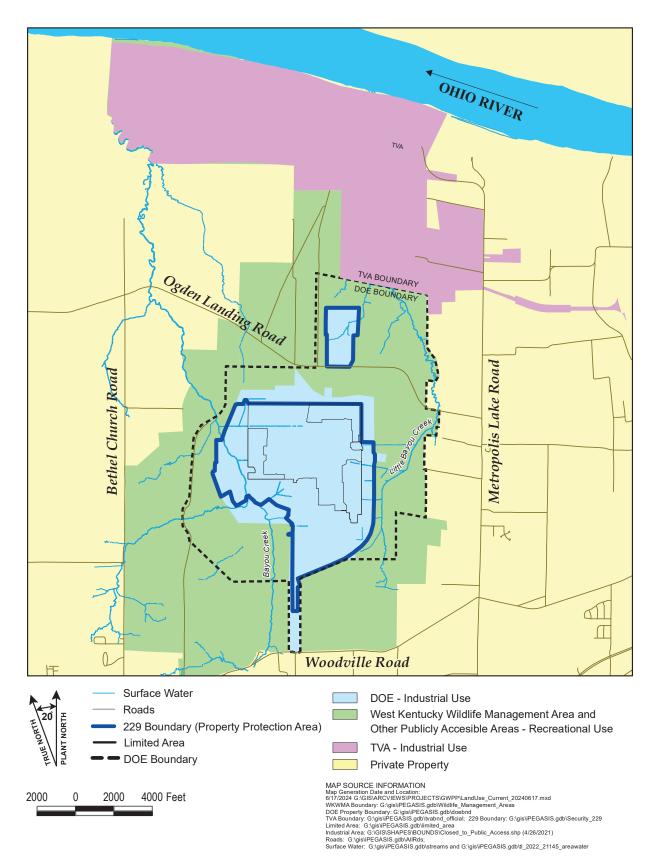


Figure 2. Current Land Use at the Paducah Site

SYSTEM	SERIES	FORMATION	THICKNESS (IN FT)	DESCRIPTION	HYDROGEOLOGIC SYSTEMS	
	RECENT AND PLEISTOCENE	ALLUVIUM	0-40	Brown or gray sand and silty clay or clayey silt with streaks of sand.		
ARY	PLEISTOCENE	LOESS	0-43	Brown or yellowish-brown to tan unstratified silty clay	UPPER CONTINENTAL	
QUATERNARY	PLEISTOCENE	CONTINENTAL DEPOSITS	3-121	Upper Continental Deposits (Clay Facies) - mottled gray and yellowish-brown to brown clayey silt and silty clay with some very fine sand. Trace of gravel. Often micaceous.	RECHARGE SYSTEM (UCRS)	
	PLIOCENE- MIOCENE (?)			Lower Continental Deposits (Gravel Facies) - reddish-brown clayey, silty, sandy chert gravel and beds of gray sand	REGIONAL GRAVEL AQUIFER (RGA)	
	EOCENE		JACKSOJN,	0-200+	Red, brown, or white fine-to- coarse grained sand. Beds of white to dark gray clay are distributed at random.	
TERTIARY		CLAIBORNE, AND WILCOX FORMATIONS	0-100+	White to gray sandy clay, clay conglomerates and boulders, scattered clay lenses and lenses of coarse red sand. Black to dark gray lignitic clay, silt or fine-grained sand.		
		PORTERS CREEK CLAY	0-200	Dark gray, slightly to very micaceous clay. Fine-grained clayey sand, commonly glauconitic in the upper part. Glauconitic sand and clay at the base.		
		CLAYTON FORMATION	Undetermined	Lithologically similar to the underlying McNairy Formation		
UPPER CRETACEOUS		McNAIRY FORMATION	200-300	Grayish-white to dark gray micaceous clay, often silty, interbedded with light gray to yellowish-brown very fine-to- medium grained sand with lignite and pyrite. The upper part is interbedded clay and sand, and the lower part is sand.	McNAIRY FLOW SYSTEM	
		TUSCALOOSA FORMATION	Undetermined	White, well rounded, or broken chert gravel with clay		
MISSISSIPPIAN		MISSISSIPPIAN CARBONATES	500+	Dark gray limestone and inter- bedded chert with some shale	BEDROCK	

Adapted from USGS 1980

NOTE: Historically, the geologic section used at the Paducah Site reflects the stratigraphy, as mapped by Wilds W. Olive in the United States Geological Survey publication, *Geologic Maps of the Jackson Purchase Region, Kentucky* (USGS 1980). This document was published in 1980 in cooperation with the Kentucky Geologic Society. At the Paducah Site, the probable age of the Terrace Gravel is considered to be of Miocene or Pliocene Age.

Figure 3. Lithostratigraphic Column of the Jackson Purchase Region

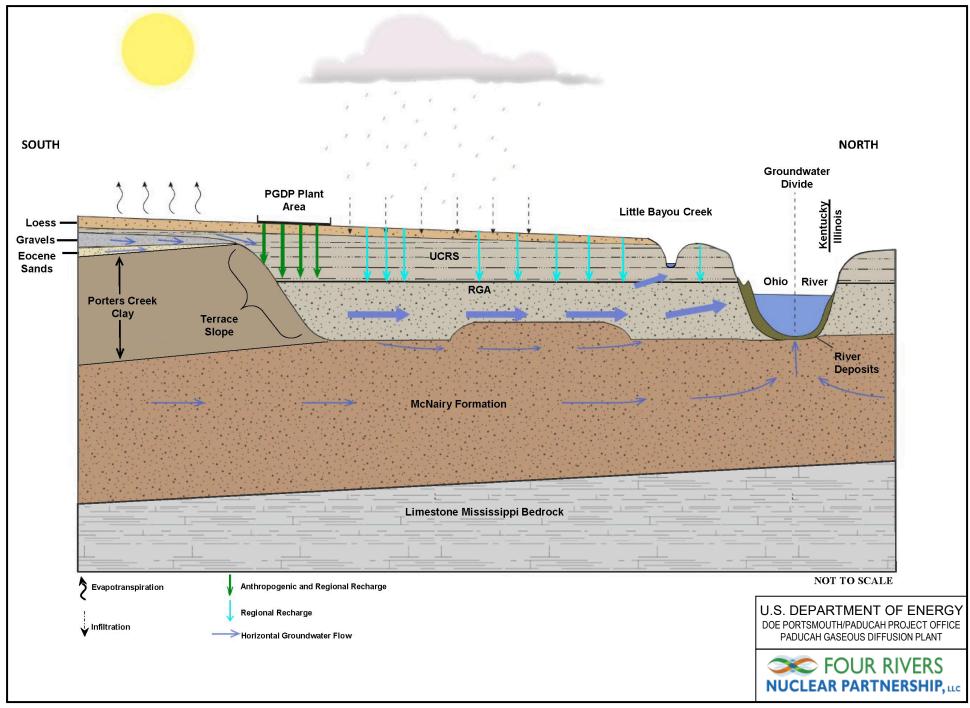


Figure 4. Schematic of Stratigraphic and Structural Relationships near the Paducah Site

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These continental deposits have been divided into a basal gravel facies [lower continental deposit (LCD)] and an upper, fine-grained clastic facies [upper continental deposit (UCD)]. The LCD consists of chert gravel in a matrix of poorly sorted sand and silt. This basal gravel facies has been identified at three horizons at the Paducah Site. A Miocene-to-Pliocene-aged facies, ranging in thickness from 1 to 30 ft and averaging less than 10 ft, exists in the southern portions of the site, occurring on the upper surfaces of a buried terrace at elevations greater than 350 ft above mean sea level (amsl). A second gravel facies, ranging in thickness from 15 to 20 ft, exists in southeastern and eastern portions of the site occurring on an erosional surface at approximately 320 to 345 ft amsl. The third and most prominent of the three gravel facies beneath the site consists of Pleistocene deposits that overlie an erosional surface north of the buried Porters Creek Clay Terrace. Elevations of this facies vary from approximately 245 to 310 ft amsl. Overall the Pleistocene LCD has an average thickness of approximately 30 ft, but thicker deposits, up to 70 ft, exist in deeper scour channels that trend east-west across the site.

The UCD is primarily a fine-grained, clastic facies varying in thickness from 15 to 55 ft and consisting of clayey silt with lenses of sand and occasional gravel. The UCD represents fluvial and lacustrine environments (USGS 1967; Frye et al. 1972). Lacustrine sediments were deposited along the present Ohio and Tennessee River Valleys when the Mississippi River Valley and ancestral Ohio River Valley became choked from draining glaciated areas. These sediments dammed valleys of tributaries, creating slackwater lakes, and resulting in deposition of fine-grained sediments. Depending on stages of glaciation, periods of lacustrine deposition were followed by periods of erosion. As aggradation of the fluvial system continued, stream gradients in the ancestral Tennessee River and tributaries lessened. Lower gradients likely favored a transition from a braided environment to a meandering environment. A very gravelly lower sequence that becomes sandier upward identifies the transition in the Pleistocene continental deposits.

Loess, consisting of yellowish-brown silt and clayey silt, overlies the continental deposits at the site, and varies in thickness from approximately 5 to 25 ft with an average of approximately 15 ft. Holocene alluvial deposits are found at lower elevations within the Ohio River floodplain north of the plant site.

The general soil map for Ballard and McCracken counties indicates three soil associations are found in the vicinity of the Paducah Site: the Rosebloom-Wheeling-Dubbs association, the Grenada-Calloway association, and the Calloway-Henry association (USDA 1976). The predominant soil association in the vicinity of the Paducah Site is the Calloway-Henry association, which consists of nearly level, somewhat poorly drained to poorly drained, medium-textured soils on upland positions. Many of the characteristics of the original soil have been lost due to industrial activity that has occurred over the past 69 years.

2.3 SITE HYDROLOGY

Local groundwater near the Paducah Site occurs in the unconsolidated sediments of the Cretaceous McNairy Formation, Miocene-Pliocene Terrace Gravel, and Pleistocene LCD and UCD. Terms describing the hydrogeologic-flow systems that generally correspond to these lithostratigraphic units are the McNairy Formation Flow System, Terrace Gravel, Regional Gravel Aquifer (RGA), and Upper Continental Recharge System (UCRS). The following are brief descriptions of the four components of the groundwater flow system.

- (1) McNairy Flow System: Formerly termed "the deep groundwater system," this component consists of the interbedded and interlensing sand, silt, and clay of the McNairy Formation. Sand facies account for 40–50% of the total formation thickness of approximately 225 ft.
- (2) **Terrace Gravel:** This component consists of Miocene-to-Pliocene-aged gravel deposits found at elevations higher than 350 ft amsl in the southern portion of the plant site. These deposits usually lack

sufficient thickness and saturation to constitute an aquifer and typically are characterized by an unsorted mix of sand to cobble-sized materials.

- (3) **RGA:** This component consists of the Pleistocene sand and gravel facies of the LCD and Holocene alluvium found adjacent to the Ohio River. In addition, the RGA includes contiguous sands of the UCD and the McNairy Formation. The RGA is commonly thicker than the Pliocene gravel deposits, with an average thickness of 30 ft, and ranges up to 70 ft in thickness along an axis that trends east to west through the plant site. The RGA, which extends well beyond the site boundary, is the primary aquifer used locally and serves as the main conduit for groundwater flow to the north where it discharges to the Ohio River. Some of the RGA groundwater discharges in springs/boils in tributaries to the Ohio River.
- (4) UCRS: Formerly termed "the shallow groundwater system," this component consists of the UCD, excluding sand adjacent to the LCD. The sand and gravel lithofacies are relatively discontinuous. The most prevalent sand and gravel deposits occur at an elevation of approximately 345 to 351 ft amsl, with less prevalent deposits occurring at an elevation of 337 to 341 ft amsl. Groundwater flows downward into the RGA from the UCRS in the vicinity of the Paducah Site.

The local groundwater flow system at the Paducah Site is bound by topographically controlled recharge and discharge areas to the south and north, respectively. Recharge within the Pliocene Terrace Gravel and Eocene sands has resulted in a groundwater divide located southwest of the Paducah Site. Locally, groundwater within the Terrace Gravel and Eocene sands either discharges to streams or flows northward into the RGA, which eventually discharges to the Ohio River, the regional base level for the system. The main recharge for the RGA is through flow from the UCRS.

Toward the southern part of the Paducah Site, the RGA either is truncated or thins and grades laterally into the Terrace Gravel; high hydraulic potential causes groundwater to discharge into adjoining streams. In the north-central portion of the plant site, the lower gradients are a result of the thicker LCD. The hydraulic gradient increases closer to the Ohio River as a result of a thinner section of the RGA or the low permeability of bottom sediments in the Ohio River. The primary pathway of groundwater flow at the Paducah Site is within the RGA, which dominates the flow regime.

The discontinuous nature of sands and gravels in the UCRS and the large vertical gradient within the UCRS require groundwater flow in the UCRS to be oriented predominantly downward into the RGA. Some horizontal flow in the UCRS likely occurs; however, it is insignificant near the Paducah Site due to the lateral discontinuity of shallow sand and gravel lenses. Groundwater flow in the RGA is to the north and discharges into the Ohio River and into Little Bayou Creek in the vicinity of the Tennessee Valley Authority plant. Hydraulic conductivities of the RGA range from 100 to 1,000 ft per day. Existing regional maps and borehole logs indicate the RGA is thin or absent beneath the Ohio River, suggesting that flow under the Ohio River is unlikely.

3. ACTIVITIES THAT HAVE THE POTENTIAL TO POLLUTE GROUNDWATER

Activities for which GPPs shall be prepared and implemented are listed in 401 KAR 5:037 § 1(1), *Applicability*. The following activities, relevant to these requirements, are performed by DOE and its contractors/subcontractors at the Paducah Site:

- (a) *Storing or related handling of bulk quantities of pesticides or fertilizers for commercial purposes.* This primarily is performed by the Infrastructure Contractor. Examples include the following:
 - Storage of concentrated herbicides is at C-725. Only personnel with current state certifications for herbicide application are allowed to access, mix, and apply the chemicals.
 - Fertilizers are used by the D&R Contractor to aid in sowing down landfill vegetation. Fertilizers are stored in a Poly-Overpack[®], which is stored inside a wooden storage facility (i.e., C-746-U-11).
 - The Infrastructure Contractor uses spike type fertilizers for targeted application to trees and ornamentals; spikes are stored at C-755.
- (b) *Storing or related handling of bulk quantities of pesticides or fertilizers for the purpose of distribution to a retail sales outlet.* [Not Applicable (N/A)]
- (c) *Applying of pesticides or fertilizers for commercial purposes.* (N/A)
- (d) *Applying of fertilizers or pesticides for public right-of-way maintenance or institutional lawn care.* This primarily is performed by the Infrastructure Contractor.
- (e) Land treatment or land disposal of a pollutant. (N/A)
- (f) Storing, treating, disposing, or related handling of hazardous waste, solid waste, or special waste in landfills, incinerators, surface impoundments, tanks, drums or other containers, or in piles. This primarily is performed by the D&R Contractor.
 - C-733, C-746-Q, and C-752-A are permitted hazardous waste storage and treatment units in accordance with the Hazardous Waste Facility Permit, KY8-890-008-982, issued by Kentucky Division of Waste Management (KDWM).
 - C-746-U receives and disposes of solid wastes in accordance with Solid Waste Permit SW07300015, SW07300014, SW07300045 issued by KDWM. The C-746-U Landfill also has six large capacity storage tanks (two 31,000 gal, two 13,100 gal, one 16,000 gal, and one 2,500 gal) to facilitate the collection and treatment of leachate generated at the landfill and also from the C-746-S Landfill.
 - C-404 Landfill is a closed landfill listed on the Hazardous Waste Facility Permit, KY8-890-008-982. The C-404 Landfill leachate collection sump is monitored monthly, at a minimum, and pumped for disposal when the leachate depth exceeds 3 ft. Leachate collection sump integrity testing is performed on an annual basis.
 - C-746-S and C-746-T are Subtitle D RCRA-closed landfills listed on the Solid Waste Permit SW07300014, SW07300015, SW07300045.

- Various projects/facilities are used for the temporary staging/storage of hazardous/solid waste per applicable regulations. These areas may include Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) waste staging areas managed in accordance with an approved CERCLA decision document.
- Solid wastes are staged in covered roll-offs, trucks, and/or intermodals prior to transfer to the C-746-U Landfill for disposal to prevent accumulation of precipitation or condensation in the waste containers. Receipt/processing of waste at the landfill is performed in accordance with the solid waste landfill permit, which prohibits receipt of free liquids in the waste. Waste is disposed of within 2 hours of receipt at the landfill and covered with daily cover by the end of each day. Interim and long-term covers are used at areas of the landfill that are not used for extended periods, per the permit, to minimize infiltration of water into the waste.
- (g) Commercial or industrial storing or related handling in bulk quantities of raw materials, intermediate substances or products, finished products, substances held for recycling, or other pollutants held in tanks, drums or other containers, or in piles. This is performed by each contractor in differing amounts and purposes.

The Spill Prevention, Control, and Countermeasure Plan for the U.S. Department of Energy Paducah Gaseous Diffusion Plant, McCracken County, Kentucky, CP2-RA-0016 (SPCC Plan), identifies the petroleum-based materials stored on-site (FRNP 2023a).

Select examples of bulk storage sites are discussed below.

- A 1,000 gal stationary tank used to store diesel fuel for heavy equipment and a 500 gal stationary tank that stores gasoline for vehicles are located at the C-746-U Landfill.
- Two 420,000 gal tanks (i.e., C-601-A, C-601-B) are located at the facility. Both tanks are located within a 675,000 gal capacity containment structure consisting of an earthen dike lined with a synthetic material impervious to oil. The discharge valve for the containment structure is permanently open.
- Both C-601-A and C-601-B are currently empty and have been permanently closed.
- A historical bulk coal storage area exists near the out of service C-600 Steam Plant. The bulk of the coal has been removed (facility currently is out of service).
- A 150 gal tank containing used oil is at the C-750 Garage Building.
- Six 10,000 gal aboveground, polymer-lined, carbon steel bulk storage tanks outside the DUF₆ Conversion Building (tanks C-0-HFS-550 to 555) are for the storage of aqueous hydrogen fluoride (HF).
- DUF₆ is stored in the site's cylinder storage yards east of the DUF₆ Conversion Plant in approximately 36,000 steel cylinders.
- UF₆ is stored in facilities and cylinders located in the site's cylinder storage yards and processing facilities (e.g., C-310, C-315, C-331, C-333, C-335, C-337, and C-360).
- Posi-Shell[®] is a clay and polymer-based alternative daily cover material that is stored in metal Sealand containers at the C-746-U Landfill.

- Flocculants are used for the treatment of suspended solids in the sedimentation pond and are stored in a metal Sealand container at the C-746-U Landfill.
- (h) *Transmission in pipelines of raw materials, intermediate substances or products, finished products, or other pollutants.* This is performed by each contractor in different amounts and for different purposes. Examples include the following:
 - UF₆ piping between process buildings;
 - Piping for C-611, C-616, C-752-B aboveground storage tanks;
 - Piping associated with C-765 and C-765-A Northeast Plume treatment systems;
 - Piping associated with C-612 Northwest Plume treatment system; and
 - Piping associated with former C-614 Northeast Plume treatment system (maintained in standby status).
- (i) *Installation or operation of on-site sewage disposal systems*. This is performed by the D&R Contractor. Examples include the following:
 - C-615 Sewage Treatment Plant;
 - C-333-A and C-337-A extended aeration systems; and
 - C-611, C-612, and C-746-A septic systems.
- (j) Storing or related handling of road oils, dust suppressants, or deicing agents at a central location. This primarily is performed by the Infrastructure Contractor.
 - The Infrastructure Contractor is responsible for road maintenance. Rock salt is stored in the C-734 Salt Storage Structure. C-734 is a 5,360 ft² single-story metal and fabric-covered storage building. Both structures are fully covered with open fronts for loading and/or unloading materials, and concrete floors to minimize moisture intrusion and the loss of salt material to the environment.
- (k) Application or related handling of road oils, dust suppressants or deicing materials. This primarily is performed by the Infrastructure Contractor, although each of the contractors applies small amounts of deicing materials around facility entryways/walkways for safety when needed. This activity typically is performed around each facility.
- (1) *Mining and associated activities*. (N/A)
- (m) *Installation, construction, operation, or abandonment of wells, bore holes, or core holes.* The Paducah Site was placed on the National Priorities List in 1994. As a result, wells and boreholes are installed in accordance with CERCLA and as such would be exempt from administrative requirements in this plan. Rather, they are conducted in accordance with the substantive requirements of an approved CERCLA decision document. Wells installed under other programs (e.g., hazardous waste landfill, solid waste landfill) would be completed in accordance with this plan and applicable permits and subsequent regulations under 401 *KAR*.
- (n) Collection or disposal of pollutants in an industrial or commercial facility through the use of floor drains which are not connected to on-site sewage disposal systems, closed-loop collection or recovery systems, or a waste treatment system permitted under the Kentucky Pollutant Discharge Elimination System.

Liquids from plant operations are discharged through plant effluent ditches. Groundwater protection from effluents in these discharges is under the purview of the Kentucky Pollutant Discharge Elimination System (KPDES); therefore, it is not addressed further in this GPP. Compliance with the KPDES program ensures protection of the groundwater from plant effluent discharges.

- (o) *Impoundment or containment of pollutants in surface impoundments, lagoons, pits, or ditches.* This is performed by the D&R Contractor and the DUF₆ Conversion Project Contractor. Examples include the following:
 - C-611-V, C-611-Y, C-611-H, and C-611-W are containment basins used for the backwash from the treatment of Ohio River water for potable uses on-site.
 - C-616-E and C-616-F are a series of lagoons constructed to hold recirculating cooling water for phosphate reduction prior to discharge.
 - C-617 lagoons previously collected storm water and various industrial wastewaters. Sodium thiosulfate and carbon dioxide were fed into the lagoon to dechlorinate the effluent and control pH before discharge.
 - Fifteen outfall ditches convey storm water and treated industrial waste waters off-site in accordance with the KPDES Permit. Each of these ditches contains devices with the potential to impound or contain wastewaters during transport off-site (e.g., inverted pipe dams, culverts).
 - C-745-G1 is a large concrete basin to collect storm water runoff from the C-746-G Cylinder Yard prior to lifting runoff to Outfall 017.
- (p) Commercial or industrial transfer, including loading and unloading, in bulk quantities of raw materials, intermediate substances or products, finished products, substances held for recycling, or other pollutants. This is performed by each contractor in differing amounts and for different purposes. Examples include the following.
 - C-760, C-759, rail lines, and the staging/receiving area along Hobbs Road (C-761-A) are used to stage wastes being shipped off-site for treatment and/or disposal.
 - C-720-G shipping and receiving area is used to stage incoming bulk materials for use at the site.
 - Aqueous HF is pumped from the storage tanks (tanks C-0-HFS-TK-550 to 555) into a railcar or tank truck for off-site shipment.
 - Historically, C-333-A Autoclave Feed Facility, C-337-A Autoclave Feed Facility, C-360 Transfer and Sampling Facility, C-310 Product Removal Facility, and C-315 Tails Removal Facility were used to transfer UF₆ from process lines/equipment to cylinders; however, these facilities are out of services for the aforementioned activities.
 - Used oil is pumped directly from the 150 gal tank at the C-750 Garage Building for off-site shipment.

Additionally, 401 *KAR* 5:037 § 1(3), *Specific exclusions*, lists several activities that are excluded from the provisions of this administrative regulation.

- (a) Normal use or consumption of products sized and packaged for personal use by individuals. This is performed by each contractor in differing amounts and for different purposes.
- (b) *Retail marketing of products sized and packaged for personal use or consumption by individuals.* (N/A)
- (c) Activities that are conducted entirely inside enclosed buildings. Several facilities used by contractors/subcontractors qualify for this exclusion; these uses include, but are not limited to, employee training, business conferences, meetings, and general office work.
- (d) Storing, related handling, or transmission in pipelines of pollutants that are gases at standard temperature and pressure. This exclusion applies to the storage and transfer of gases in cylinders and process piping, such as fluorine, chlorine, Freon[™], and chlorine trifluoride.
- (e) Storing municipal solid waste in a container located on property where the municipal solid waste is generated and that is used solely for the purpose of collection and temporary storage of that municipal solid waste prior to off-site disposal. This is performed by each contractor in differing amounts throughout the facility.
- (f) *Installing and operating sewer lines or water lines approved by the cabinet.* This exclusion applies to the septic water lines that run from the process and operating buildings to the on-site sewage treatment plant.
- (g) *Storing water in ponds, lakes, or reservoirs*. This exclusion applies to Ohio River water storage at the C-611 Water Treatment Plant.
- (h) *Impounding stormwater, silt, or sediment in surface impoundments.* Several facilities used by contractors/subcontractors qualify for this exclusion, including the DUF₆ detention basin, C-613 basin, C-617 basin, etc.
- (i) Application of chloride-based deicing materials used on roads or parking lots. This primarily is performed by the Infrastructure Contractor, although each of the contractors will keep small amounts of deicing materials near facility entryways/walkways for use in clearing ice on walkways.
- (j) *Emergency response activities conducted in accordance with local, state, and federal law.* These are performed by each contractor in differing amounts and for different purposes.
- (k) *Firefighting activities*. This will be performed by contractors/subcontractors.
- (1) *Conveyance or related handling by motor vehicle, rolling stock, vessel, or aircraft.* These are performed by each contractor in differing amounts and for different purposes.
- (m) Agricultural activities at agriculture operations. (N/A)
- (n) Application by commercial applicators of fertilizers or pesticides on lands used for agriculture operations. (N/A)

Operations are conducted in numerous facilities and areas across the Paducah Site. Contractors/subcontractors control these facilities and areas to ensure established waste management practices that result in groundwater protection practices are in place and properly functioning.

4. PRACTICES SELECTED TO PROTECT GROUNDWATER FROM POLLUTION

DOE uses contractors at the Paducah Site under the Environmental Management (EM) cleanup mission. The D&R Contractor is responsible for the deactivation of the uranium enrichment facilities and the implementation of environmental restoration activities (cleanup and closure of facilities and cleanup of soil, groundwater, burial grounds, and disposal of legacy waste) at the Paducah Site. The Infrastructure Contractor is responsible for infrastructure services such as surveillance and maintenance of selected facilities, property and records management, janitorial services, and grounds and roadway maintenance. The DUF₆ Conversion Project Contractor is responsible for the operation of a DUF₆ Conversion Plant. To ensure groundwater at the Paducah Site is protected from site-based pollution, DOE, and their contractors use standardized plans and procedures to assure quality and consistency in the implementation of groundwater protection practices. The following general programs at the Paducah Site are maintained by DOE contractors.

- Environment, Safety, and Health
- Integrated Safety and Environmental Management System (ISMS)
- SPCC Plan
- Best Management Practices (BMP) Plan
- Uranium Programs
- Waste Management
- Transportation
- Radiological Controls
- Environmental Monitoring
- Data and Sampling
- Well Maintenance
- D&R

A list of relevant plans, programs, and procedures are in Appendix B.

The following sections provide brief descriptions of the groundwater protection practices that have been implemented at the Paducah Site.

4.1 INTEGRATED SAFETY MANAGEMENT SYSTEM AND ENVIRONMENTAL MANAGEMENT SYSTEMS

The Paducah Site is committed to performing work safely and ensuring the protection of its workforce, the public and the environment. To meet these goals, DOE has embraced the ISMS and expects its contractor/subcontractor to adhere to the five safety management core functions and the eight guiding principles of ISMS. In addition, DOE sites must use an environmental management system (EMS) as a platform for site sustainability plan implementation and programs with objectives and measurable targets that contribute to DOE's meeting its sustainability goals. EMS enables more effective use of natural resources, provides better protection of the environment, and achieves environmental sustainability. The EMS helps to insure consistency and rigor in existing environmental activities and drives continual improvements in environmental performance. In addition to ISMS/EMS, several other environmental based programs have been established to help foster and ensure environmental due diligence.

The environmental monitoring plan (EMP) (CP2-ES-0006) is intended to document the rationale, sampling frequency, parameters, and analytical methods for EM activities at the Paducah Site and provide information on site characteristics, environmental methodologies, and quality assurance management pathways, dose assessment methodologies, and quality assurance management (FRNP 2023b). EM at the Paducah Site consists of effluent monitoring and environmental surveillance activities and supports evaluation and assessment if an unplanned release occurs. Monitoring is conducted for a variety of media, including air, surface water, groundwater, and sediment.

The *Best Management Practices Plan, Paducah Gaseous Diffusion Plant, Paducah, Kentucky,* CP2-ES-0500, is required per Section 3 of the KPDES Permit for the Paducah Site (FRNP 2023c). The KPDES Permit states the following:

These conditions apply to all permittees who use, manufacture, store, handle, or discharge any pollutant listed as: (1) toxic under Section 307(a)(1) of the Clean Water Act; (2) oil, as defined in Section 311(a)(1) of the Act; (3) any pollutant listed as hazardous under Section 311 of the Act; or (4) is defined as a pollutant pursuant to *KRS* 224.1-010(35) and who have operations which could result in (1) the release of a hazardous substance, pollutant, or contaminant, or (2) an environmental emergency, as defined in *KRS* 224.1-400, as amended, or any regulation promulgated pursuant thereto (hereinafter, the 'BMP pollutants''). These operations include material storage areas; plant site runoff; in-plant transfer, process and material handling areas; loading and unloading operations, and sludge and waste disposal areas.

The BMP must be maintained consistent with 401 *KAR* 5:065 § 2(4) pursuant to *KRS* 224.70-110, *General prohibition against water pollution*, which prevents or minimizes the potential for the release of BMP pollutants from ancillary activities through site runoff; spillage or leaks, sludge or waste disposal; or drainage from raw material storage at the Paducah Site. The BMP has general requirements for all operations and specific requirements for individual operations. The plan discusses a required BMP committee, the reporting of BMP incidents, and risk identification and assessment. The plan also discusses employee training, inspection records, preventative maintenance, housekeeping requirements, materials inventory, and security.

4.2 GROUNDWATER MONITORING

To ensure groundwater at the Paducah Site is protected from site-based pollution, DOE and their contractors integrate principals from the ISMS/EMS, the EMP, and BMP plans into the overall groundwater strategy.

4.2.1 RCRA Subtitle C Monitoring

Currently, the only RCRA Subtitle C permitted facility at the Paducah Site that requires groundwater monitoring is the C-404 Low-Level Radioactive Waste Burial Ground. The C-404 unit was used as a low-level waste lagoon/burial ground from the early 1950s until 1986. At that time, routine testing determined that, of the wastes disposed of there, gold-dissolver precipitate was considered a hazardous waste under RCRA. The landfill was covered with a RCRA-compliant clay cap (final cover) and was certified closed in 1991 as a hazardous waste landfill. The post-closure permit for this facility was incorporated into the Hazardous Waste Management Permit, KY8-890-008-982, in 1992.

Monitoring wells (MWs) were installed to monitor groundwater quality during the post-closure care period. The MWs were installed in the UCRS and the underlying RGA, which is considered to be the uppermost regulatory aquifer. A statistical evaluation of the indicator parameters was conducted using quarterly

sample results from the initial year of monitoring. As a result, the Commonwealth of Kentucky determined that additional information was needed to support the post-closure permit application, and subsequent MWs were installed to provide upgradient monitoring of the Lower RGA and the Upper RGA (refer to Appendix B to the EMP).

The MW network at C-404 is sampled and monitored in accordance with the requirements associated with the Hazardous Waste Facility Permit (i.e., KY8-890-008-982). The data resulting from sampling is statistically analyzed to determine if the landfill is impacting the groundwater. This analysis is supplied in semiannual reports to KDEP.

4.2.2 Underground Storage Tank Monitoring

Hazardous and Solid Waste Amendments under Subtitle I of RCRA regulation [i.e., 40 *CFR* Part 280, *Technical Standards and Corrective Action Requirements for Owners and Operators of Underground Storage Tanks (UST)*], established a comprehensive regulatory program for underground storage tanks (USTs). The Subtitle I regulations generally pertain to all USTs used to store regulated substances. Regulated substance means (a) any substance defined in section 101(14) of CERCLA (but not including any substance regulated as a hazardous waste under subtitle C); and (b) petroleum, including crude oil or any fraction thereof that is liquid at standard conditions of temperature and pressure (60°F and 14.7 pounds per square inch absolute). The term regulated substance includes, but is not limited to, petroleum and petroleum-based substances comprised of a complex blend of hydrocarbons derived from crude oil though processes of separation, conversion, upgrading, and finishing, such as motor fuels, jet fuels, distillate fuel oils, residual fuel oils, lubricants, petroleum solvents, and used oils. RCRA-regulated wastes are specifically exempt from the Subtitle I (UST) regulations, and releases from USTs that contain RCRA wastes are addressed under the regulations governing corrective action. In addition to these federal regulations, USTs at the Paducah Site also are subject to 401 *KAR* Chapter 42, *Underground Storage Tanks*.

DOE is responsible for 18 site USTs that have been reported to KDEP in accordance with regulatory notification requirements. All 18 of these USTs and associated piping runs have been closed in place permanently or physically removed and properly disposed of in accordance with KDEP regulations and KDEP NFA letters are on file for each former UST facility. Table 1 provides summary information on the former USTs at the Paducah Site. Visit the following webpage for additional information: https://pegasis.pad.pppo.gov/.

4.2.3 RCRA 3004 (u/v) and CERCLA Monitoring

Additional groundwater monitoring performed relates to RCRA 3004 (u/v) and CERCLA requirements for characterization of areas of contamination at a facility that has had releases with the potential to contaminate groundwater. Groundwater contamination currently present at the Paducah Site has been labeled as the TCE Plume and the Tc-99 Plume (see Figures A.3 and A.4). The TCE Plume is subdivided further into the Northeast Plume, Northwest Plume, and Southwest Plume. Results of monitoring are used to determine and implement remedial actions, as necessary, to protect human health and the environment. Specific actions/procedures to protect groundwater during MW installation and groundwater remediation are identified in the CERCLA response work plans. Annual, semiannual, and quarterly analytical data collected in conjunction with groundwater monitoring sampling events are posted to the Environmental Information System Portsmouth/Paducah Project Office Environmental Geographic Analytical Spatial Information System data repository.

State Identification Number	Paducah Site Identification Number	SWMU Designation/Status	Regulatory Status
0001	C-750-A	142	Removed 3/91; closure complete per KDWM letter of 3/25/99.
0002	С-750-В	143	Removed 3/91; closure complete per KDWM letter of 3/25/99.
0003	С-750-С	25	Removed 10/93; not Subtitle I—clean closed under RCRA Subtitle C.
0004	C-750-D	24	Rinsed with TCE and emptied 6/79; filled with cement 10/97; closure complete per KDWM letter of 11/23/99.
0005	C-746-A1	139	Emptied 9/88; filled with cement 10/97; revised closure assessment report submitted 7/15/03; additional information requested from KDWM on 03/18/04; closure complete per KDWM letter.
0006	С-710-В	73	EXEMPT—emptied 7/85; filled with cement 10/97; closure complete per KDWM letter of 02/19/02.
0007	C-200-A	72	EXEMPT—grouted in 1977; closure complete per KDWM letter of 11/23/99.
0008	C-746-A2	140	During the Waste Area Group 15 Site Investigation, this UST was determined (and documented) to be nonexistent.
0009	C-751-W	186	Removed 2/27/2015: closure complete per KDWM NFA letter dated 10/21/15.
0010	С-751-Е	186	Removed 2/27/2015: closure complete per KDWM NFA letter dated 10/21/15.
0011	C-611-1	130	Last used before 1975; clean closed per KDWM letter of 12/6/96.
0012	C-611-3	134	Last used before 1975; filled with cement 9/97; clean closed per KDWM letter of 12/6/96.
0013	C-611-2	131	This UST was determined to be nonexistent—NFA required per state correspondence of 12/6/96.
0014	C-611-4	132	Last used before 1975; filled with sand; clean closed per KDWM letter of 12/6/96.
0015	C-611-5	133	Filled with grout before 1975; clean closed per KDWM letter of 12/6/96.
0016	С-200-В	72	Filled with concrete around 1981; closure complete per KDWM letter of 2/19/02.
0017	С-745-К	490	UST discovered 8/16/01; tank and soils removed 2/02, clean closed per KDWM letter of 12/4/02.
0018	С-745-К2	534	UST discovered 4/10/02; tank removed 4/02; clean closed per KDWM letter of 12/4/02.

Table 1. Summary Information on USTs

4.2.4 RCRA Subtitle D Landfill Groundwater Monitoring

Both C-746-S and C-746-T Landfills are closed landfills in post-closure care under the Solid Waste Permit (i.e., SW07300014, SW07300015, SW07300045) issued by KDWM on May 21, 2021. The C-746-S Residential Landfill stopped receiving solid waste and was certified closed in 1995. The groundwater monitoring system for the C-746-S Residential Landfill also encompasses the C-746-T Inert Landfill, which was certified closed in 1992.

A solid waste landfill, C-746-U, was constructed in 1996 north of C-746-S and C-746-T Landfills. The C-746-U Landfill currently operates and receives wastes as a contained landfill under Solid Waste Permit

(i.e., SW07300014, SW07300015, SW07300045). MWs for the C-746-S, C-746-T, and C-746-U Landfills are sampled quarterly for analytes dictated by the current, approved Solid Waste Permit.

The data resulting from groundwater sampling at C-746-U and C-746-S&T Landfills are statistically analyzed to determine if the landfills are impacting the groundwater. This analysis is supplied in quarterly reports to KDEP.

4.2.5 Monitoring Well Preventive Maintenance

To protect and maintain the integrity of the MW network at the Paducah Site, a preventive MW maintenance plan was implemented in 2002. A complete description of this program can be found in the current approved CP2-ES-0024, *Monitoring Well Maintenance Implementation Plan for the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*. This program combines regular monitoring of each well's physical condition and performance during routine sampling activities. If problems requiring attention are identified, a schedule to repair or rehabilitate wells is developed. The maintenance monitoring program also includes, as needed, visual inspection of downhole equipment, downhole video inspection, evaluation of water quality data, microbial sampling and analysis, and assessment of well performance indicators. Typical efforts to rehabilitate MWs involve the use of physical treatment methods, such as brushing and surging. The Paducah Site solid waste and hazardous waste management facility permits require notification to KDWM prior to MW maintenance or abandonment activities.

4.2.6 Evaluation of Floor Drains

An evaluation of floor drains before groundwater protection practices are selected is required by $401 \ KAR 5:037 \ \S \ 2(5)(c)$, *Floor drains*. Floor drains must be connected to an on-site sewage disposal system, to a closed-loop collection or recovery system, a waste treatment system permitted under KPDES, or be terminated.

Historically, floor drains with a potential for oil spills and/or leaks to discharge directly to the environment have been plugged in the process buildings. Currently, as floor drains are encountered that have a potential to discharge contaminants to the storm water system, the facility evaluates whether the floor drains should be plugged. If plugging is needed, it is accomplished as a work request through the FRNP work planning process.

Liquid discharges from plant operations are discharged through the plant effluent ditches, and groundwater protection from effluents in these discharges are under purview of the KPDES program. Compliance with the KPDES program provides protection of the groundwater from plant effluent discharges.

4.2.7 Evaluation of Loading and Unloading Areas

401 KAR 5:037 § 2(5)(a), Loading and unloading areas, states the following:

Loading and unloading areas shall have spill prevention and control procedures and operation procedures designed to prevent groundwater pollution. Spill containment and cleanup equipment shall be readily accessible.

Loading and unloading areas have emergency response procedures, spill containment, and cleanup equipment. The plant emergency squad provides continuous emergency response to spills 24-hours-a-day.

4.3 ENVIRONMENTAL SURVEILLANCE MONITORING

Groundwater surveillance monitoring, as required by DOE Order (O) 436.1A, *Departmental Sustainability*, is implemented at the Paducah Site. The approved EMP discusses this program and its components including MWs, sample parameters, and sampling frequencies. The plan is maintained as a living document that will be modified to meet new requirements and needs. Any changes in MW status, locations, or sampling frequency will be documented in the annual EMP. The EMP also describes other environmental monitoring activities, such as surface water monitoring at the C-746-S/T/U Landfills, KPDES outfall monitoring, and in-stream monitoring of Bayou Creek and Little Bayou Creek.

4.4 KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM OUTFALLS

The KPDES Permit (KY0004049) requires the Paducah Site to monitor effluent discharges through permitted Outfalls 001, 002, 004, 006, 008, 009, 010, 011, 012, 013, 015, 016, 017, 019, and 020 (See Figure 5).

Sample parameters include both physical and chemical constituents. Results are assessed and submitted to the proper regulatory agencies. Activities include field testing (e.g., pH, conductivity, temperature), field measurements (e.g., flow measurements), and laboratory analysis for pollutants identified in the KPDES Permit. If data indicate increasing contaminant levels, information pertaining to upstream operations is reviewed to identify the potential cause and implement appropriate BMP to minimize pollutants per Section 3 of the KPDES Permit. General conditions and general requirements of Section 3 of the KPDES Permit are discussed in the FRNP BMP plan, CP2-ES-0500, as they pertain to the remediation, deactivation, and infrastructure contractors and in *Paducah Storm Water Pollution Prevention and Best Management*, DUF6-PLN-079, for the DUF₆ Conversion Project Contractor (MCS 2024a).

4.5 SAMPLE COLLECTION

Surface water bodies (e.g., streams, the Ohio River, lagoons, ponds), surface and subsurface soil, and groundwater (from MWs) are sampled as part of environmental assessment and possible remediation efforts conducted at the Paducah Site. To provide protection of groundwater during the performance of these activities, task-specific procedures are utilized that allow quantification of site conditions without degradation of the sampling site. These procedures, maintained and implemented by DOE contractors, are specified and described in project-specific sampling and analysis plans that are reviewed and approved prior to sampling. The following sections in this report provide generic information on the types of procedures that are applicable to sampling surface water, surface and subsurface soil, and groundwater at the Paducah Site.

Appendix B provides a partial list of the most current version of plans, programs, and procedures that are implemented for specific tasks at the Paducah Site.

4.5.1 Surface Water

Surface water sampling activities can be divided into two types: observation and water sampling. Observations include presampling visual assessment and determination of flow rates or volumes using flow meters and calibrated flumes. The sampling protocol is designed to allow representative samples to be taken from a location and protect sampling personnel, while preventing the spread of contamination. Collected samples then are tested for specific constituents using either field measurement methods or laboratory analysis. Hydrogeologic evidence has demonstrated that Bayou Creek and Little Bayou Creek are losing streams over some intervals; therefore, sampling and protecting surface water aid in ensuring groundwater protection.

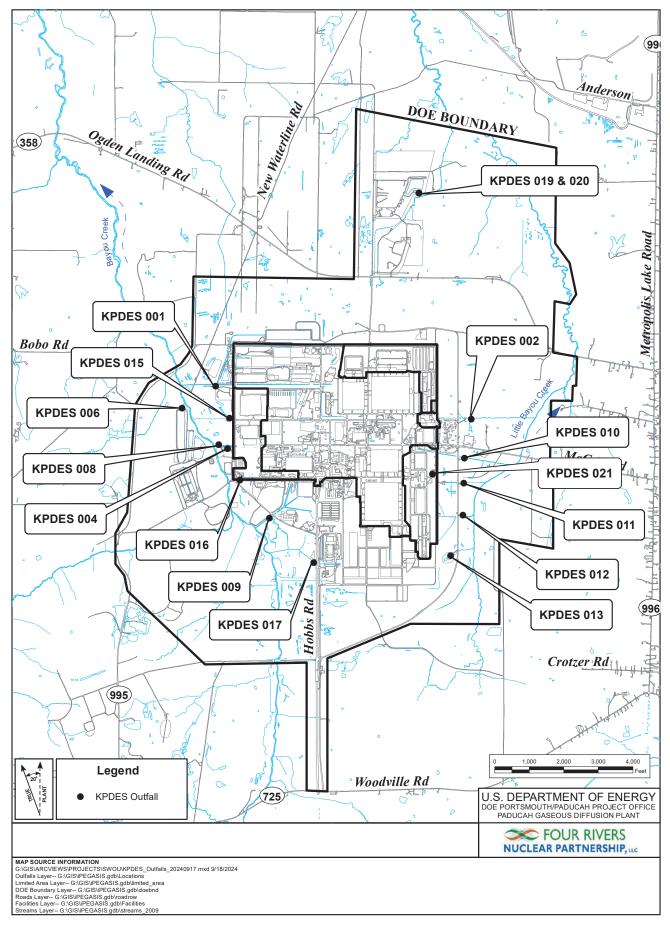


Figure 5. KPDES-Permitted Outfall Locations at the Paducah Site

Several SWMUs at the Paducah Site are located in areas without an outfall and are grass covered and under normal conditions would not have discharges. The BMP states that during extreme rainfall events these areas may become saturated, which may allow storm water to flow over or through the SWMU increasing the potential for surface water discharge. If the soils covering the SWMU become saturated, the SWMUs will be checked for signs of erosion and releases. Storm water runoff periodically will be inspected visually to look for signs of contamination (e.g., an oily sheen, cloudy, discolored water, etc.) and, if necessary, sampled.

The following types of activities are used during surface water sampling as appropriate to the specific task.

- Collection of surface water samples
- Field measurement of water temperature
- Field measurement of pH
- Field measurement of dissolved oxygen
- Field measurement of residual chlorine
- Field measurement of specific conductance
- Field measurement of alkalinity

4.5.2 Surface and Subsurface Soil

Surface and subsurface soil samples may be taken prior to or during construction, excavation, and remediation activities or as part of environmental characterization activities. Procedures for soil sampling enable characterization while protecting sampling personnel and reducing the risk of increasing contaminant migration and are identified in project specific work instructions and/or CERCLA work plans.

The following activities may be used during surface and subsurface soil sampling as appropriate to the requirement of the specific task.

- Surface soil sampling
- Subsurface soil sampling
- Soil gas sampling
- Lithologic logging

4.5.3 Well Sampling

Numerous MWs and residential wells are sampled on a regular basis (see Appendix B of the EMP). This sampling is conducted to monitor the existing groundwater contamination plumes and to detect any additional releases of contamination into the RGA. The procedures that guide these activities help ensure that analytical results are representative of aquifer conditions. In addition to chemical and physical conditions, aquifer parameters such as transmissivity and conductivity are determined as needed. Additional information on the well sampling program at the Paducah Site is available in the current approved EMP.

The following types of activities may be used during well sampling, as appropriate to the specific task.

- Groundwater sampling
- Water level measurements
- MW purging

4.6 SUBSURFACE PENETRATIONS

To characterize subsurface conditions, numerous subsoil penetrations have been made under various investigation and remedial activities. These penetrations have been in the form of MWs, production/extraction wells, piezometers, and sample borings (including shallow direct push holes and drilled borings to the McNairy Formation and deeper). Installation/drilling techniques are selected specifically to prevent undesirable contaminant migration while providing the maximum information required for characterization of the geological and hydrogeological conditions. Excavation permits are required by facility procedure CP3-EN-0227, *Trenching, Excavation and Penetration Permit*, prior to any installation/drilling activity anywhere on-site in order to satisfy ISMS/EMS principles. Completed sample borings and MWs no longer required for sampling are properly abandoned per 401 *KAR* 6:350 § 11, *Monitoring Well Abandonment*, (as appropriate) to prevent downward migration of contaminants.

4.7 STORAGE OF BULK QUANTITIES OF MATERIALS, RECYCLABLES, AND WASTES

4.7.1 Fuel Storage Tanks

Fuel storage tanks located at the Paducah Site, including C-600, C-746-U, C-752-B, C-333, and C-337 are subject to the SPCC Plan. Each of the tanks is equipped with appropriate containment (secondary or double-walled) and is inspected at least monthly. Collected storm water is inspected for sheen prior to discharge. For a comprehensive overview of the Paducah Site aboveground storage tanks, refer to Appendix B to the SPCC Plan (FRNP 2023a). Additionally, spill control and cleanup equipment is located near each facility to allow for prompt cleanup of spills.

4.7.2 Used Oil

Used oil is collected for disposal at the C-750 Garage Building in 150 gal and 300 gal double-walled tanks and 55 gal drums. Containers are inspected monthly in accordance with SP001, *Standard for the Inspection of Aboveground Storage Tanks*. Once the containers are full, the Infrastructure Contractor schedules the pickup of the used oil. Used oil storage for DUF₆ is addressed by the DUF₆ Conversion Project Contractor GPP, *Paducah Groundwater Protection Plan*, DUF6-PLN-117 (MCS 2024b).

4.7.3 Storage of UF₆

Bulk UF₆ is stored in on-site cylinders and various facilities around the Paducah Site.

DUF₆ cylinders are stored on gravel and concrete pads in the cylinder yards. Storm water runoff from the cylinder yards is channeled to Outfalls 001, 002, 008, 010, 012, 013, 015, and 017 for discharge/monitoring under the KPDES Permit (i.e., KY0004049).

4.7.4 Storage of Aqueous Hydrogen Fluoride

HF is stored in six aboveground, outdoor, carbon steel 10,000 gal tanks (tanks C-0-HFS-TK-550 through C-0-HFS-TK-555) and each tank has the following:

- Polymer lining;
- Remote level monitoring;
- High-level and high-high level alarms to warn operators of potential overfill; and
- Concrete secondary containment (i.e., 21,166 ft² × 3.5-ft high, 11,729 gal capacity).

4.7.5 Storage of Posi-Shell® Chemical

Posi-Shell[®] is an alternative daily cover material that is stored at the C-746-U Landfill in metal Sealand containers.

4.7.6 Storage of Flocculants

Flocculants are used for the treatment of suspended solids in the sedimentation pond and are stored in a metal Sealand container at C-746-U Landfill.

4.7.7 Storage of Road Oils and Deicing Materials

The Infrastructure Contractor is responsible for road maintenance. Rock salt is stored in the C-734 Salt Storage Structure. C-734 is a 5,360 ft² single-story metal and fabric-covered storage building. Both structures are fully covered with open fronts for loading and/or unloading materials, and concrete floors to minimize moisture intrusion and the loss of salt material to the environment. Deicers are used during winter months on sidewalks, deck, and steps to improve personal safety. Rock salt is dissolved into a high-salinity solution (i.e., brine) at the C-755-A-1 Storage Shed, and it is suitable for roads and parking lot pretreatment. If weather is too severe for pretreatment, then rock salt is applied directly to the road and parking lot surfaces. By using pretreatment, the Infrastructure Contractor minimizes the amount of rock salt used and, therefore, the amount of runoff to site ditches and outfalls.

4.7.8 Storage of Pesticides

The Infrastructure Contractor utilizes herbicide as one form of weed control and plant management. A minimum amount of concentrate is purchased for use in a one-year period. Storage of concentrate is at C-725. Access to the chemical is restricted by use of a lock and key. Only personnel with current state certifications for herbicide application are allowed to access the chemicals, mix, and apply the chemicals. The herbicide is stored, applied and the container disposed of in accordance with the manufacturer's instructions and Commonwealth of Kentucky law.

4.7.9 Storage of Aqueous Film-Forming Foam

Aqueous film-forming foam (AFFF) belongs to a class of chemicals known as per- and polyfluoroalkyl substances (PFAS). These man-made chemicals have been manufactured by and used by a variety of industries since 1940. PFAS are persistent in the environment and have become emerging contaminants of concern in surface water and groundwater in recent years. AFFF was used in the past at the Paducah Site for fire training activities. AFFF has been detected in monitoring wells near the fire training area (C-207).

On March 22, 2019, the governor of Kentucky signed S.B. 104, banning the use of AFFF containing PFAS for training and testing purposes. This law went into effect on July 2020. In August 2021, the Paducah Site replaced all AFFF that contained PFAS with a new biodegradable nonhazardous foam. The former supply of AFFF (600 gal) has been declared waste and is being properly stored until suitable treatment and disposal methods are identified.

4.8 WASTE MANAGEMENT

DOE and its contractors/subcontractors generate, handle, and store a significant quantity of waste materials. Activities that deal with waste are addressed in procedures established to ensure proper storage, maintain

accountability, and eliminate the possibility of a release to the environment. At each area of generation, facilities are provided for the proper containerization of waste materials.

Waste handling activities include segregation, transportation, sampling, storage, and treatment and/or disposal. Beginning at generation, wastes are segregated (i.e., liquid from solid) and similar materials are consolidated in containers. To the extent practical, waste is containerized in accordance with 49 *CFR* § 172.101, *Purpose and use of the hazardous material table*, and 49 *CFR* Part 173, *Shippers—General Requirements for Shipments and Packagings*, at the point of generation. This step ensures proper storage and handling until treatment and/or disposal. After wastes are containerized and secured, they are transported to a waste staging or storage area for further processing, transfer to another container, or storage pending treatment and/or disposal. Temporary storage of wastes at the generating project is conducted in accordance with applicable regulations based upon the type of waste [e.g., 40 *CFR* Subpart C, *Characteristics of Hazardous Waste*, for hazardous wastes, DOE Manual 435.1-1 Chg 3 (LtdChg), *Radioactive Waste Management Manual*, for radioactive wastes, and/or 40 *CFR* § 761.65, *Storage for disposal*, for wastes containing polychlorinated biphenyls (PCBs)]. Long-term storage of hazardous waste is done in accordance with the hazardous waste facility permit in a facility constructed with concrete secondary containment basins and structures to prevent rain from contacting waste. Long-term storage of other industrial wastes (e.g., radioactive, PCBs) is conducted in the same facilities to the extent practical.

4.8.1 Release Prevention and Control

One of the first steps in preventing groundwater contamination is release prevention. To this end, DOE operates under DOE O 435.1 Chg 2 (AdminChg), *Radioactive Waste Management*, and DOE O 458.1 Chg 4 (LtdChg), *Radiation Protection of the Public and the Environment*, which direct the acceptable conditions for treatment, storage, and disposal of DOE-generated waste. In addition, each project task is required to have a Waste Management Plan, which specifically relates to the expected waste stream, the quantities of waste generated, and also includes, but is not limited to, information on required container inspection, diking, repackaging of waste, and transferring of liquid wastes.

The Environmental Radiation Protection Program (ERPP) is designed to meet the requirements in DOE O 458.1 Chg 4 (LtdChg), *Radiation Protection of the Public and the Environment*. The purpose of the order is to minimize radiation exposure to the public, control the radiological clearance of property, ensure that any exposure to the public is as low as reasonably possible, monitor routine and nonroutine radiological releases, and to provide protection of the environment from effects of radiation. The ERPP provides an overview of the measures implemented by DOE and its contractors/subcontractors at the Paducah Site.

4.8.2 Release Control

Because the potential for release to the environment exists at all facilities that handle hazardous substances, DOE has developed and continues to update the SPCC Plan and the Hazardous Waste Permit Contingency Plan. In addition, all spills and/or releases are required to be reported per CP3-ES-0003, *Environmental Incident Reporting*. These documents stipulate the procedures to be followed and the equipment to be used in the event of a liquid release. They also maintain a record of these releases.

4.9 MATERIAL TRANSFERS

Loading of wastes and/or materials into containers is performed inside of structures to the extent practical. Any spills are promptly cleaned up. Containers are loaded in a manner to avoid/prevent damage to containers during loading/transfer.

CP2-WM-0025, Four Rivers Nuclear Partnership, LLC Paducah Deactivation and Remediation Project Transportation Security Plan for the Transport of Hazardous Materials in Commerce, has been prepared for waste to be shipped off-site from the D&R Contractor. Procedure DUF6-U-WMP-2001, Shipping (MCS 2024c), has been prepared for off-site shipments of U.S. Department of Transportation (DOT)regulated hazardous material (HAZMAT), with the exception of HF. Procedure DUF6-C-WMP-2003, HF Shipping, has been prepared for off-site shipments of HF (MCS 2024d). These plans/procedures describe the process to ensure compliance with applicable DOT HAZMAT Regulations. A hazard classification is assigned to waste/material being shipped in accordance with 49 CFR § 172.101 and 49 CFR § 173.2a, Classification of a material having more than one hazard. Waste/material is containerized in accordance with 49 CFR § 172.101 and 49 CFR Part 173. Radiation levels are not allowed to exceed the threshold values provided in 49 CFR § 173.441, Radiation level limitations and exclusive use provisions, and 49 CFR § 173.443, Contamination control. Shipping papers are prepared for each shipment in accordance with 49 CFR § 172.200, Applicability, and/or 40 CFR Part 262, Standards Applicable to Generators of Hazardous Waste. Additional information/shipping papers are provided to comply with applicable requirements of the Nuclear Regulatory Commission, National Emission Standards for Hazardous Air Pollutants, and Toxic Substances Control Act. All marking, labeling, and placarding of waste materials and waste containers are completed in accordance with 40 CFR § 172.300, Applicability, 49 CFR § 172.400, General labeling requirements, and 49 CFR § 172.500, Applicability of placarding requirements, respectively. An emergency response plan is completed and provided for the carrier to use to comply with 49 CFR § 171.15, Immediate notice of certain hazardous materials incidents, 49 CFR § 171.16, Detailed hazardous materials incident reports, and 49 CFR § 390.15, Assistance in investigations and special studies.

4.10 TREATMENT

4.10.1 Groundwater

The Paducah Site currently operates two groundwater pump-and-treat systems. The Northwest Plume Pump-and-Treat System involves the use of an air stripper, ion exchange units, and a vapor-phase activated carbon exchange unit. The Northeast Plume Containment System uses air strippers. Additionally, projects have been started and/or completed to remediate source contamination at SWMU 1, SWMU 91, C-400, and the Southwest Plume.

4.10.1.1 Northwest Plume Pump-and-Treat System and Northeast Plume Containment System

The groundwater pump-and-treat systems were constructed and are operated in accordance with two separate CERCLA interim records of decision (IRODs) approved by EPA. These IRODs are the *Record of Decision for Interim Remedial Action of the Northwest Plume at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky* (DOE 1993), and the *Record of Decision for Interim Remedial Action at the Northeast Plume, Paducah Gaseous Diffusion Plant, Paducah, Kentucky* (DOE 1993). The purpose of these facilities is to retard further migration of the northwest and northeast groundwater contaminant plumes. Prior to the implementation of the IRODs, a water policy was implemented for residences located within the affected areas. This policy was established in an Administrative Consent Order between DOE and EPA, pursuant to Sections 104 and 106 of CERCLA.

Beginning in August 2010, the Northwest Plume Pump-and-Treat System switched from withdrawal from the original four extraction wells to withdrawal from two new extraction wells located at the north boundary of the industrial area of the Paducah Site (in the vicinity of the original south wellfield). The location of these extraction wells was optimized to capture the core and the lateral extent of the Northwest Plume in the area of the north plant boundary. DOE issued an *Explanation of Significant Differences to the Record*

of Decision for the Interim Remedial Action of the Northwest Plume at the Paducah Gaseous Diffusion Plant Paducah, Kentucky, for this action in December 2010 (DOE 2010).

In 2011, the FFA managers identified optimization of the Northeast Plume Containment System as a priority, consistent with the sitewide strategy that includes a series of sequenced activities consisting of source actions and control of off-site groundwater migration followed by a final action for the overall dissolved-phased plume. Subsequently, an explanation of significant differences was finalized in 2015, and a Remedial Action Work Plan was prepared (DOE 2016). Northeast Plume Optimization construction activities commenced in July 2016, and the optimized system was operational in October 2017. The optimized system consists of two new extraction wells moved closer to the known VOC source zones near the east Paducah Site security fence in the two centroids of the Northeast Plume. Two new modular air stripper treatment units were installed to treat extracted groundwater from the Northeast Plume.

4.10.1.2 SWMU 91 source remediation

In July 1998, DOE issued the CERCLA Record of Decision for Remedial Action at Solid Waste Management Unit 91 of Waste Area Group 27 at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky (DOE 1998). This ROD designated LASAGNATM as the selected remedial alternative for reducing the concentration of TCE in SWMU 91 to levels that would decrease the potential groundwater risk to human health and the environment at the point of exposure. Installed on the south side of the C-745-B cylinder yard in 1999, the electroosmosis system was operated for two years and reduced the concentration of TCE in SWMU 91 soil from an average of 84 mg/kg to an average of less than 5.6 mg/kg. This was verified in sample results taken in the spring of 2002 and 2003. Additional information about the LASAGNATM technology and its development can be found in the *Final Soil Characterization Work Plan for the Paducah Gaseous Diffusion Plant LASAGNA*TM Technology Demonstration at Solid Waste Management Unit 91 of the Paducah Gaseous Diffusion Plant, Paducah, Kentucky (MMES 1996).

4.10.1.3 C-400 source remediation

DOE issued the *Record of Decision for Interim Remedial Action for the Groundwater Operable Unit for the Volatile Organic Compound Contamination at the C-400 Cleaning Building at the Paducah Gaseous Diffusion Plant Paducah, Kentucky*, in August 2005 (DOE 2005). This interim remedial action included the design, installation, operation, and subsequent decommissioning of an electrical resistance heating (ERH) system to heat discrete intervals of the subsurface TCE source zone resulting in volatilization, removal, and recovery of VOCs from the southern end of the C-400 Cleaning Building. The system became operational in 2010.

The first phase of the ERH was completed in December 2010. Based on the evaluation and the lessons learned from Phase I, it was determined that the ERH base design was successful in reaching target temperatures in the subsurface and removing contaminants in the UCRS and upper RGA. The evaluation of Phase I also indicated that target temperatures were not achieved in the lower RGA, which resulted in the split of the Phase II interim remedial action for the southeast source areas into two separate actions: (1) UCRS and Upper RGA action (Phase IIa) and (2) Lower RGA action (Phase IIb) (DOE 2011a). The *Remedial Action Completion Report for the Interim Remedial Action for the Groundwater Operable Unit for the Volatile Organic Compound Contamination at the C-400 Cleaning Building at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, (RACR) reported a 95.0% reduction in VOCs in the Phase I east treatment area soils and a 76.0% reduction in VOCs in groundwater within the boundaries of the Phase I southwest treatment area.

Construction of the Phase IIa ERH system was completed in April 2013; remedial ERH operations were initiated in July 2013; and ERH electrodes were turned off in October 2014 to allow the subsurface to cool down, after the FFA parties agreed that asymptosis had been achieved. The soil vapor groundwater treatment system continued to operate through November 2014, at which time operations were ceased, and the remedial action portion of Phase IIa was considered complete. The RACR reported a 99.8% reduction in VOCs in the Phase IIa treatment area soils and a 99.3% reduction in VOCs in groundwater within the boundaries of the Phase IIa treatment area.

The FFA parties signed the *Memorandum of Agreement on the C-400 Complex under the Federal Facility Agreement for the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, in August 2017 (DOE 2017a). The memorandum accelerates the investigation and cleanup of the C-400 Cleaning Building area for all sources of contamination associated with and underlying the C-400 Cleaning Building and integrating the Phase IIb source area into the final action for the C-400 Complex OU.

The remedial investigation of the C-400 Complex was completed in 2021 with the report issued in 2023. A follow-on investigation of the area north of the C-400 Complex is scheduled for the fourth quarter of 2024.

4.10.1.4 Southwest Plume source remediation

DOE conducted a site investigation of the Southwest Plume and four potential source areas in 2004, *Site Investigation Report for the Southwest Groundwater Plume at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky* (DOE 2007). As a result, a focused feasibility study for the Southwest Groundwater Plume VOC Sources (i.e., oil landfarm and C-720 northeast and southeast sites) was conducted (DOE 2011b). Sources to the Southwest Plume included in this action were the SWMU 1 Oil Landfarm, SWMU 211-A C-720 Building TCE Northeast Spill Site, and the SWMU 211-B C-720 Building Southeast Spill Site.

DOE completed a ROD for these Southwest Plume sources in March 2012 (DOE 2012). The ROD for these SWMUs implements deep soil mixing to treat the VOC source zone at SWMU 1. Deep soil mixing at SWMU 1 commenced in March 2015 and concluded in April 2016. The *Remedial Action Completion Report for In Situ Source Treatment by Deep Soil Mixing of the Southwest Groundwater Plume Volatile Organic Source at the C-747-C Oil Landfarm (Solid Waste Management Unit 1), at Paducah Gaseous Diffusion Plant, Paducah, Kentucky (SWMU 1 RACR), reported a 99.0% reduction in VOCs in the treatment area soils (DOE 2017b). The SWMU 1 RACR was approved by EPA and Kentucky in February 2017. The Final Characterization Report Addendum and Letter Notification proposing remedy for 211-A and 211-B were evaluated by the FFA parties. The FFA parties agreed to move forward with 211-A and will determine an appropriate remedial action for 211-B, based on a revised conceptual site model consistent with the data in the Final Characterization Report.*

Field implementation for enhanced *in situ* bioremediation at 211-A was completed in October 2022. Maintenance and monitoring of the remedial action continues.

4.10.2 Decontamination, Well Development, and Well Purge Wastewater

C-752-C is a large concrete containment pad covered by a roof. This facility is used to decontaminate equipment and to treat wastewaters to remove suspended solids in accordance with the KPDES Permit. This treatment usually serves as pretreatment for water that is further treated in the C-612 facility.

4.10.3 C-746-S and C-746-U Landfill Leachate

The C-746-U-15 leachate treatment system has a large concrete secondary containment pad covered by a permanent structure. Wet wells in this facility are designed to automatically pump any releases back into the influent tank. This facility treats C-746-S Landfill and C-746-U Landfill leachate using treatment media prior to discharge in accordance with the solid waste landfill permit. The leachate discharge is regulated under the KPDES Permit.

4.10.4 Miscellaneous Wastewater

The C-752-A permitted hazardous waste treatment facility has a large concrete secondary containment pad covered by a permanent structure. This facility also is used to treat miscellaneous wastewaters generated at the Paducah Site such as decontamination solutions, contamination storm waters, leachate from C-404 or C-746-U, etc., in accordance with the KPDES Permit. Treatment in this facility includes chemical precipitation, photocatalytic reaction, particulate filtration, and/or carbon filtration. The treated wastewaters are appropriately disposed of by discharge, in accordance with the KPDES Permit, or off-site disposal.

4.10.5 Noncontact Cooling Water

The DUF₆ Conversion Facility cooling tower blowdown contains a biocide and deposit control agent and is discharged through the effluent treatment system in accordance with the KPDES Permit.

4.10.6 C-613 Storm Water Control Basin

C-613 collects storm water from the northwest part of the Paducah Site limited area. This facility originally was constructed to contain contaminated runoff from the scrap metal yards under CERCLA. The basin is lined to minimize migration of contaminants to groundwater. The basin is approved under the KPDES Permit (i.e., KY0004049) to treat wastewater with high levels of suspended contaminants prior to discharge through Outfall 001.

4.10.7 Use of Surface Impoundments, Lagoons, Ditches in CERCLA Projects

Many of the remediation projects require the holding/collecting of storm waters to prevent/minimize contaminated runoff. Specific control measures and technologies are addressed in the project specific CERCLA work plan.

5. IMPLEMENTATION SCHEDULE

The controls and measures described in this plan have been established in accordance with regulatory requirements and, as a result, already have been implemented.

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6. EMPLOYEE TRAINING

DOE ensures that contractor personnel are trained and qualified for their functional positions. Each contractor employee has an individualized training position description (TPD). Each contractor employee is required to complete his/her assigned training prior to implementing any work associated with their respective TPD. This training complies with state and federal regulations, DOE orders, contractor policies and procedures, Paducah Site, site-specific requirements, and ISMS/EMS as applicable. This training ensures that all employees implement proper practices for protection of the environment, including groundwater protection. Applicable training courses include the following:

- General Employee Training (GET): This training session covers general topics for performing work at a DOE facility, including the Quality Assurance Program, classification security, the Industrial Hygiene Program, emergency preparedness, fire protection, Radiological Program, criticality safety, and hazard communication. Training includes elements on storage and use of HAZMAT. Many of these topics incorporate the requirements for groundwater protection measures required for work conducted at the Paducah Site. Personnel who require access to the Paducah Site, except escorted visitors, must complete this course. Testing is required to complete the course and it must be renewed every two years. GET consists of Web-based training.
- Consolidated Annual Training (CAT): This training session covers general topics for performing work at a DOE facility, including the ISMS/EMS, Quality Assurance Program, SPCC Plan, use of fire extinguishers, and waste minimization/management. These are key components for the overall EM activities conducted at the Paducah Site in support of groundwater and other environmental protection programs. Testing is required to complete the course, and it must be renewed every year. CAT consists of Web-based training.
- **Radiological Worker Training I and II:** Radiological Worker Training is required for all unescorted personnel who work in, or require access to, radiological areas. Radiological areas, as defined by the site Radiological Control Program procedures, include contamination areas, high contamination areas, radiation areas, high radiation areas, very high radiation areas, airborne radioactivity areas, radioactive material areas, fixed contamination areas, underground radioactive material areas, and radiological buffer areas. Training focuses on preventing the spread of contaminants, which minimizes the potential for contaminant discharge to groundwater. This training is designed to be accomplished in approximately 16 hours; however, the core material may be reviewed as self-study followed by a Webbased examination. This training must be recertified every two years.
- Waste Generator Training: Specific training in accordance with the TPD is required for personnel who generate, package, and handle RCRA-hazardous waste, including personnel who work in areas that generate hazardous waste and who manage satellite or 90-day accumulation areas. This training gives instruction on the proper identification, management, and temporary storage of wastes generated during the performance of hazardous waste activities at the Paducah Site. Proper waste management minimizes the risk of a release of contaminants to groundwater at the Paducah Site.
- Hazard Communication Training: Hazard Communication Training is required for personnel who use or might come in contact with HAZMAT defined under the Occupational Safety and Health Act. The course covers appropriate identification, storage, use, and labeling. This is a one-time course with refresher training required annually, with additional requirements for supervisory personnel. Proper HAZMAT management minimizes the risk of a release of HAZMAT to groundwater at the Paducah Site.

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7. INSPECTION SCHEDULE

Inspections of each system for control of groundwater pollution are unique to each type of activity. Inspection forms are driven by the SPCC Plan; the Hazardous Waste Facility Permit; and the Solid Waste Permit. Pursuant to each of those requirements, the checklists include the date, name of operator and supervisor, what the inspection pertains to, observations, and any actions taken. Example inspection forms for tanks, containers, and equipment are shown on the following pages.

CP3-EP-1004-F11 C-410-L Monthly Mobile Emergency Equipment Inspection

Month:_____

Year:_____

			MUM
SUPPLIES	MINIMUM REQUIRED	AVAII YES	ABLE NO
Sandbags	50 each	ILS	NU
Absorbent Media	50 bags, 40 lbs. each, or equivalent		
Absorbent Rolls	2 rolls, approximately 38" X 100 ft. each, or equivalent		
Absorbent Pillows	24 each, approximately 15" x 15"		
Absorbent Pads	200 each, approximately 16" x 20"		
Oil Booms – 8" by	,,,,,		
10'	20 each		
Oil Booms – 5" by			
10'	12 each		
Face Shields	8 each		
Splash Suits	4 each		
Tyvek Coveralls	20 each		
Gloves	20 pair		
Booties	20 pair		
		MINI	MUM
EQUIPMENT	MINIMUM REQUIRED (IN WORKING CONDITION)	AVAII	LABLE
		YES	NO
Oil Skimmer	1		
2" Pump	1		
4" Pump	1		
Comments:			
Inspected by:	Badge Number:E	Date:	
Supervisor Review:	Badge Number:I	Date:	

CP2-ES-1000/FR1

CP3-ES-1035-F01 – Environmental Checklist

PADUCAH GASEOUS DIFFUSION PLANT

DIRECTIONS: Responsible Managers, Project Environmental Lead, and Environmental Compliance personnel complete this form by follo in CP3-ES-1035, Section 6.0, Instructions.	wing the instr	ructions
SECTION A. Descriptive Information: Provide additional project or contact information on Environmental Checklist Attachments, Supple for Section A.	mental Inform	nation
Charge Number:		
Project Title:		
Performing Organization: Date:		
Contact Name Telephone No. E-mail Addre	ess	
Facility Operations/Facility Manager:		
Program/Project Manager:		
Project/Technical Contact:		
Alternative Project/Technical Contact:		
Project Environmental Contact:		
SECTION B. Project Description: Provide a brief and accurate description of the project or activity on Environmental Checklist Attachme Information for Section B. Select all of the applicable work activities listed in Section G.		
SECTION C. Significant Environmental Aspects / Potential Sources of Impact: Check the appropriate box and provide explanation for a 'Yes' on Environmental Checklist Attachments, Supplemental Information for Section C.	iny aspect che	ecked
Source Yes No Source	Yes	No
1. Air Pollutants/Greenhouse Gases/Vapor Intrusion (New 🛛 🖄 11. Interaction with Wildlife/Habitat/Wetlands/Floodplain Structure)	ns 🗆	
2. Asbestos Emissions		
3. Radionuclide Release/Protection of the Public and the Environment I II. Radioactive Materials Use and Storage		
4. Chemical Use and Storage 14. Storage of Regulated, Hazardous, RAD Materials or V in Tanks/Containers	Waste	
5. Contaminated Sites Disturbance (SWMU)		
6. Cultural/Historical Resource Disturbance 🔲 🔲 16. Sustainability (Energy, Water, Petroleum)		
7. Discharge to Wastewater Systems or Groundwater 🛛 🗆 🖂 17. Storm Water Affects from Equipment, Runoff, or Sp.	ills 🗆	
8. Drinking Water Contamination 18. Managing Surplus Property and Materials		
 9. Waste Generation and Management [Regulated, Hazardous, Radiological (RAD), Solid] 10. Wanaging Surprise Property and Waterhals 11. Wanaging Surprise Property and Waterhals 12. 13. Wanaging Surprise Property and Waterhals 13. Structural Fires, Wild Fires, Open Burning, Hotwork 		
10. Material or Waste Packaging and Transportation \square \square 20. Other:		
 SECTION D. Work Activities and Environmental Checklist Submittal Determination: Determine whether to submit the CP3-ES-1035-Compliance for review and approval and check one of the following: Required to submit the CP3-ES-1035-F01 to Regulatory Compliance. 	F01 to Regula	atory
□ <u>Not required</u> to submit CP3-ES-1035-F01.		
SECTION E. Conditions: (If Yes, see attachment for instructions.) Yes	No	
Are conditions required before starting project? If yes, provide a description of the condition on Environmental Checklist Attachments, Supplemental Information for Section E.		
 SECTION F. Determine the Level of Environmental Review (or Documentation) and Reference(s): such as categorical exclusion numb Environmental Assessment (EA) or Environmental Impact Statement (EIS) Document Number, CERCLA Record of Decision, Checklist Number. Provide justification for selecting the level of review on Environmental Checklist Attachments, Supplemen Section F. 	er (CX), or Environme	
□ CX □ EA □ EIS □CERCLA □Previously Approved NEPA Document □ Cultural Resource Management □	'lan Exclusior	ı
Reference(s):		
Note: For projects checked above as "CX" (Categorical Exclusion) the proposed action must <u>not</u> : 1) threaten a violation of applicable statutory, regulated requirements for environmental, safety, and health, including requirements of DOE orders; 2) require siting and construction or major expansion of was recovery, or treatment facilities; 3) disturb hazardous substances, pollutants, contaminants, or CERCLA-excluded petroleum and natural gas products the environment such that there would be uncontrolled or unpermitted releases; 4) adversely affect environmentally sensitive resources. In addition, no extra circumstances related to the proposal exist which would affect the significance of the action, and the action is <u>not</u> "connected" or "related" (40 CFR 150 respectively) to other actions with potentially or cumulatively significant impacts. Note: The above paragraph does <u>not</u> apply to EA, EIS, or CERCLA rescuestion.	te storage, disp at pre-exist in aordinary 08.25(a)(1) and	the (2),
SIGNATURE BLOCK. Signature indicates that this form is accurate and complete		
Print/Type Name Signature Dat	3	

CP3-ES-1035-F01 – Environmental Checklist (Continued) PADUCAH GASEOUS DIFFUSION PLANT

CP2-ES-1000/FR1

		Section G – Work Activities	
Constructing or modifying stationary air emission sources		Modifying drinking water systems	Cleaning up spills and releases (non PCB)
Constructing or modifying tanks		Operating facilities, equipment, or processes	Cleaning up spills and releases of PCBs
Decontaminating equipment contaminated with PCBs, radionuclides, hazardous substances		Performing activities that may break up, dislodge, or block access to regulated asbestos-containing material	Excavation of soil and sediment not in a solid waste management unit (SWMU)
Discontinuing use of, closing, relocating, and/or removing tanks		Preparing buildings or facilities for transfer to surplus, or placed into standby (inactive) status	Excavation of soil and sediment in SWMU
Maintaining equipment contaminated with PCBs, radionuclides, hazardous substances		Removing asbestos-containing material	General earth-moving activities
Maintaining, servicing, or repairing HVAC equipment		Transfer R114 to ISO or rail	Impacts/alters stream channels
Maintaining, servicing, or repairing motor vehicle air conditioners		Tours and inspections	Mowing, weed eating, and/or brush removal
Operating and repairing tanks (petroleum,volatile organic compound, hazardous materials, etc.)		Environmental remediation	Performing activities with the potential for fugitive dust or fugitive emissions
Operating stationary facilities and equipment that emit air pollutants		Operation of groundwater treatment facilities	Releases, leaks, spills or unusual operating conditions from tanks
Operating stationary facilities and equipment that emit radionuclides		Closing and/or abandoning groundwater wells	Working in SWMUs, areas of contamination, or Radiological Contamination Areas
Operating portable or mobile equipment that store petroleum		Collecting samples for analysis	Cylinder transfer
Operation of mobile emergency generators and/or pumps		Conducting open burning	Transfer UF6 cylinder contents to new cylinders
Relocating portable air emissions sources or bringing portable or stationary air emissions sources onto the site		Constructing or modifying groundwater wells	Characterization of potentially asbestos containing material
Starting up, shutting down, or performing scheduled maintenance on stationary air emissions sources		Packaging and temporarily storing samples collected to obtain environmental data	Constructing or modifying wastewater systems
Use of heavy equipment (fork trucks, cranes, loaders, trucks, etc.)		Procuring goods and services	Discharging wastewaters
Maintenance of heavy equipment		Pumping Ohio River water to C-611	Disposing of samples
Vehicle and cart operations		Purchasing chemical products/chemicals/hazardous agents	Dispositioning excess materials
Constructing or modifying facilities that store petroleum		Purchasing diesel fuel or natural gas	Distributing, excessing, or disposing of appliances containing refrigerants
Constructing or modifying facilities, equipment, or processes		Purchasing refrigerants, appliances containing refrigerants, system components that operate using refrigerants, or refrigerant recovery or recycling equipment	Planning to generate or generating waste
Constructing or modifying facilities, equipment, or processes at permitted or interim status RCRA facilities		Purging, pumping and/or maintaining groundwater wells	Land disposal of Solid Wastes— operating C-746- U Landfill
Deactivating, decontaminating, dismantling, or closing facilities (including trailers), equipment, and processes	П	Storing and maintaining samples	Monitoring wastewaters discharges
Demolition removal of inactive facilities		Transferring gas cylinder contents to new cylinders	Operating solid waste management facilities and accumulation areas
Discontinuing use of or closing facilities, equipment, or processes		Transferring samples to a laboratory	Operation of wastewater and groundwater treatment plants
Emergency response to spills, fires, and/or explosions		Treating water for drinking	Storage/disposal of asbestos containing materials
Maintaining and repairing facilities, processes, and equipment. Making modifications to facilities as part of routine maintenance		Using, storing and dispositioning chemical products/hazardous agents	Transportation/shipment of wastes for treatment/disposal
Metal cutting or welding		Warehouse/shipping and receiving	Waste storage, management, disposal

CP3-ES-1035-F01 FR2

Page 2 of 3

CP3-ES-1035-F01 – Environmental Checklist (Continued) PADUCAH GASEOUS DIFFUSION PLANT

CP2-ES-1000/FR1

Supplemental Information	n for Section A, Proj	ect Description Infor	mation: Provide an	y additional contact informat	ion.							
				. 1								
action (e.g., new activity or	facility, construction, building, room, labor	, process or facility mo	odification, maintena	rate description of the project ance); description of activities (what is the activity and why								
types and amounts of chempollution prevention measured	icals, waste, effluent, res. Refer to CP2-ES-	or emissions; size of r 0101, "Environmental	nodification or soil of <i>Management Syste</i>	disturbance; type of tank, equ	emediation Project, Paducah							
Guseous Diffusion 1 iuni, 1	αααστη, Κεπιασκή, Α			tal aspect is applicable to the	proposed activity.							
				mental instructions to be give								
on the applicable work activ page 2 of this form.												
project can begin. Have the	e required permit mod	ification or notificatio	ons been completed?		ications) required before the							
Identify which documents 1			Γ									
TSCA/ PCB	SWMU Notification	Asbestos Removal Notification	Drawing Change*	Site Management Plan	Water Withdrawal Permit							
HWMFP/RCRA Permit	KPDES Permit	Air Permit	Landfill Permit	Drinking Water Permit	Other							
*For a drawing to be affected	ed, it must be listed in	an applicable permit	or environmental do	ocument.								
Supplemental Information reference for level of enviro		l of Environmental F	Review (or Docume	ntation) and Reference(s): I	Provide justification and							

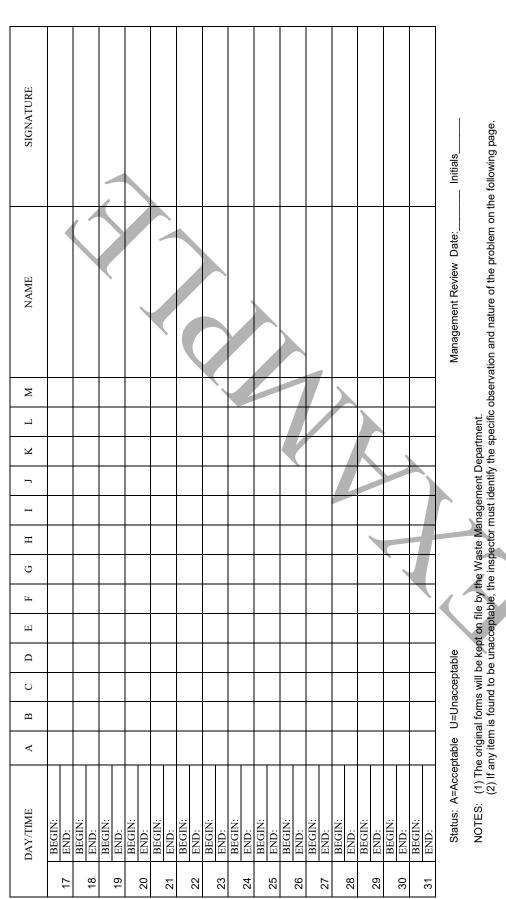
Page 3 of 3

CP3-WM-0023-F02 - C-733 RCRA General Inspection Form Month/Year

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NO IES:	(1) The original form	s will be	e kept	on tile	by the	Waste	Mana	gement	Depart	ment.	, nood -	o doito	+04 10	NOTES: (1) The original torms will be kept on the Waste Management Department.	
	(∠) Il any nem is rour	ם הם	uriac	сергал	e, ule	nadsui		Ineru	y une s	pecilic	ODSEIV	/aliun a	anu na	Ure of the problem on the lower of	page.

CP3-WM-0023-F02 - C-733 RCRA General Inspection Form





CP3-WM-0023-F02 Rev. 2

CP3-WM-0023-F02 - C-733 RCRA General Inspection Form

	DATE VERIFIED														
	DATE COMPLETED														
	ACTION														
	OBSERVATION														
<u>nth/Year</u>	Item DATE (A-M)														
Mol	Item (A-M)														

NOTE: If the verification is made by someone other than the inspector, that person should sign the observation as corrected on the day the required corrective action (repairs, repackaging, etc.) is verified complete. Verification can be visible inspection or receipt of documentation, such as closed work orders or ESOs.

	FrequencyWeekly	l of recharging; overpacks, [Eyewash station solution not angles of approach.
CP3-WM-0023-F02 - C-733 RCRA General Inspection Form	Letter BlockInspection ItenAAisle SpacingBCCCCContainer StackingCContainer StackingCContainer StackingCContainer StackingCContainer StackingCContainer StackingCContainer StackingCContainer StackingCContainer StackingCContainer StackingGContainer StackingGLabelsIUnacceptable/Unpermitted WasteISafety and Emergency EquipmentJSpill Containment/Sump (including pump)KSecurity DevicesMUnloading AreasNOTE: Operating day is defined as any 24-hour period (when in use).	DOTENTIAL PROBLEMS ASSOCIATED WITH INSPECTION ITEM Alide space is less than adequate distance between rows of pallets. Alide space is less than adequate distance between rows of pallets. Correded or mated or relating drums; containers not correctly supported on pallets. Containers not stored closed, without lids or bungs. Containers not correctly supported on pallets. Containers not stored closed, without lids or bungs. Containers fasting from expansion of contents are on inquid drums. Labels and markings identifying generator, contents, accumulation date, missing or ilquid drums. Labels and markings identifying generator, contents, accumulation date, missing or ilquid drums. To succer cracks in floor:toofing walls have no visible cracks or legible. No succer cracks in thoro:tooting floor:toofing walls have no visible cracks or legible. No succer cracks in the content of the mater of t
	Letter Block A B C C C C C C C H H J K K K M M NOTE: Operating	Letter Block A. Aisle space is less B. Containers stackec C. Corroded or rustec D. Containers not stoi E. Labels and markin F. No severe cracks i G. No unacceptable/u H. Fire extinguishers absorbents, safety/ changed quarterly] I. Housekeeping; traa J. Dike or sump dam K. Cylinder not secur L. Fence or gates dar M. Leaks/spills in loa

Page 4 of 6

- I. Operational Equipment
 - a. Containers
- II. Spill Containers
 - a. Dike
 - b. Sump (including sump pump)
 - c. Floor
- III. Safety and Emergency Equipment
 - a. Fire extinguishers
 - b. Emergency equipment cabinet
 - c. Absorbent material
 - d. Cleanup equipment (Shovels/brooms)
 - e. Overpacks
 - f. Radio
- IV. Security Equipment
 - a. Fence
 - b. Gates
 - c. Signs

NOTE: Fire alarms are tested by the FRNP Fire Department.

CP3-WM-0023-F02 - C-733 RCRA General Inspection Form

Area: C-733		Mont	h:					Year:			
		WEF	EK 1	WEI	EK 2	WE	EK 3	WEI	EK 4	WE	EK 5
EQUIPMENT	AMOUNT	YES	NO	YES	NO	YES	NO	YES	NO	YES	NO
Absorbent (loose)	50 lbs										
Tyvek Coveralls	4 each										
Gloves	8 pair										
Booties	4 pair										
Overpack Drums	4										
Brooms	2										
Shovels	2										
Sprinkler Systems (C-733, C-752A, C-746-A)				FRNP	does r	not test/	inspect				
Fire Extinguishers	2										
Eyewashes	Min. 1 each										
Radios				Test	ing not	docum	ented				
Spill Storage Tanks	S-21 at C-752-A										

RCRA Storage and Treatment Facilities Emergency Response and Spill Control Equipment Weekly Inventory/Inspection Checklist

	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5
All shortages replaced at	Yes:	Yes:	Yes:	Yes:	Yes:
time of inspection?	No:	No:	No:	No:	No:
Actions taken to correct			7		
Shortages?					
				•	•

	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5
Signature					
Date					
Time					

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8. CERTIFICATION STATEMENT

DOCUMENTATION IDENTIFICATION:

Groundwater Protection Plan for the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, CP2-ES-1000/FR1

I, Myrna E. Redfield, Four Rivers Nuclear Partnership, LLC, Program Manager, certify that this Groundwater Protection Plan complies with the requirements of 401 *KAR* 5:037. I have read the terms of the plan and will implement its provisions.

Signature/Date:

Myrna E. Redfield, Program Manager Four Rivers Nuclear Partnership, LLC THIS PAGE INTENTIONALLY LEFT BLANK

9. REVIEW LOCATION FOR GROUNDWATER PROTECTION PLAN

Public inspection of GPPs is a provision of 401 *KAR* 5:037 § 3(7), *Public inspection of groundwater protection plans*. This plan is made available for access at the following website: <u>https://pubdocs.pad.pppo.gov/</u>. Hard copies may be requested through the Paducah Environmental Information Center at the address listed below.

5100 Alben Barkley Drive Emerging Technology Center, Room 221, Paducah, Kentucky 42001 Phone: (270) 554-3004 Hours: Monday through Friday from 8 a.m. to 12 p.m. THIS PAGE INTENTIONALLY LEFT BLANK

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APPENDIX A

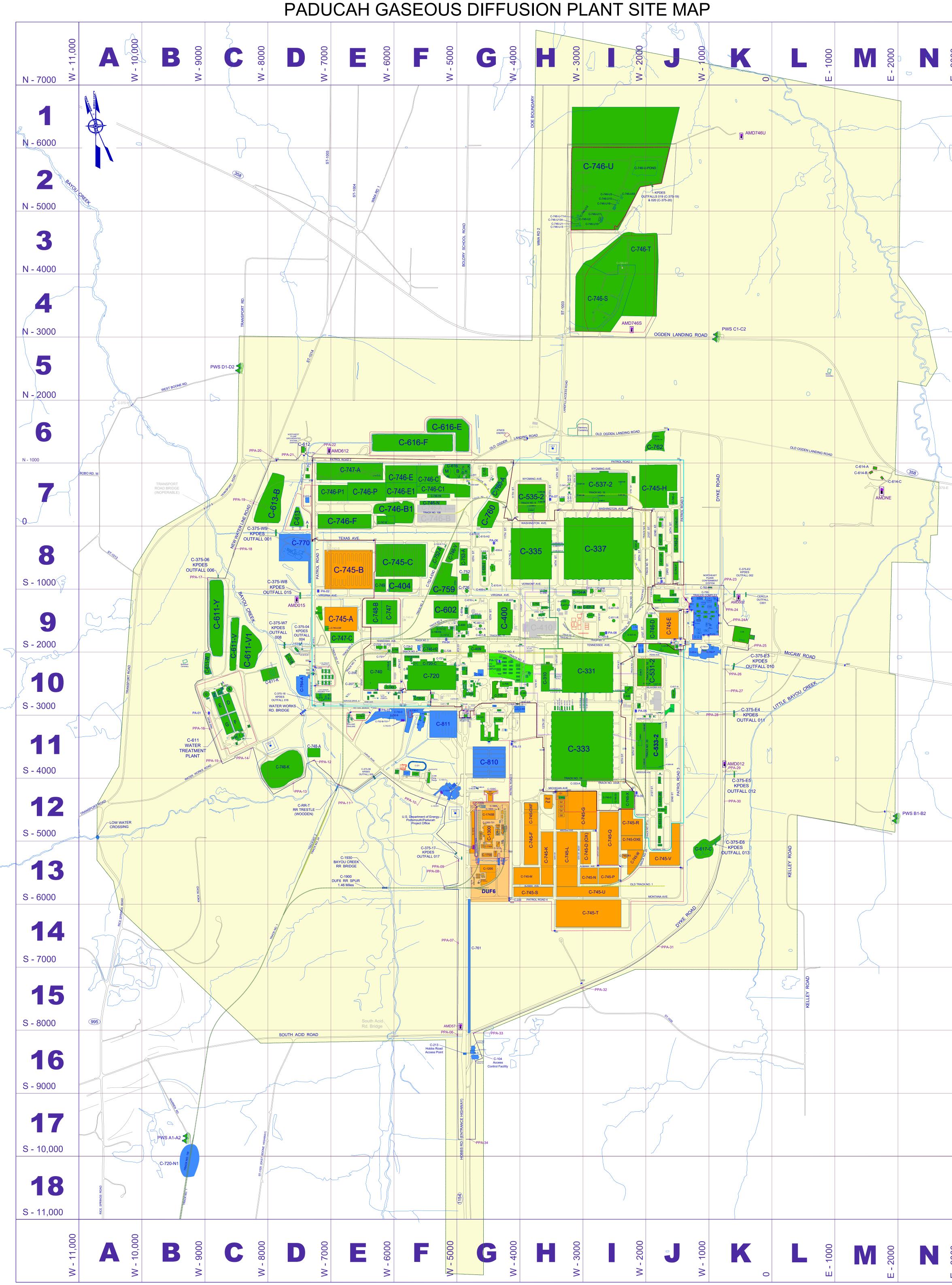
DOE PADUCAH SITE FIGURES AND TABLE

FIGURES

A.1.	Paducah Site Map	A-5
	Paducah Site Map Showing Current SWMU Locations	
A.3.	2022 TCE Plume—Regional Gravel AquiferA	\- 27
A.4.	2022 Tc-99 Plume—Regional Gravel AquiferA	A-29

TABLE

A.1.	Solid Waste Management Units/Areas	of Concern by Operable Unit A-9)



	_						
	FACILITY DESCRIPTION NUMBER C-100 ADMINISTRATION BUILDING	LOCATION G-11	FACILITY NUMBER	DESCRIPTION	LOCATION	NUMBER	DESCRIPTION STORAGE BUILDING
	C-100ADMINISTICATION DOLEDINGC-101CAFETERIAC-102HOSPITALC-102-T02OFFICE TRAILER	G-11 G-11 G-10	C-612 -T05 - T08 C-612	SEALAND STORAGE CONTAINERS SEALAND STORAGE CONTAINERS	D-7 D-7	C-746-U10 C-746-U11 C-746-U12	STORAGE BUILDING STORAGE BUILDING
	C-102-T05 OFFICE TRAILER C-103 DOE SITE OFFICE AND ANNEX	G-10 F-12	-T09 - T12 C-613	SCRAP YARD SEDIMENTATION BASIN SEDIMENTATION BASIN	D-7	C-746-U13A C-746-U-T14 C-746-U15	ABOVE GROUND STORM SHI SHOWER TRAILER LEACHATE TREATMENT FAC
N - 7000	C-103-C CONCRETE PAD AND CANOPY C-103-EV ELECTRIC VEHICLE CHARGING STATION	F-12 F-12	C-613-A C-613-B C-613-01	PROCESS TRAILER SOIL BORROW STOCKPILE BASIN PUMP STATION	D-7 D-7 D-8	C-746-U16 C-746-U-POND C-746-U-S	LEACHATE STORAGE FACI LANDFILL HOLDING PON TRUCK SCALE AT LANDF
	C-103-PL DOE SITE OFFICE PARKING AREA C-104 ACCESS CONTROL FACILITY C-104 N Parking C-104 NORTH PARKING LOT	F-12 G-16 G-16	C-613-02 C-614	BASIN PUMP STATION NORTHEAST PLUME TREATMENT SYSTEM	D-8 M-7	C-746-V C-746-X	WASTE STAGING PAD ELECTRICAL EQUIPMEN STORAGE BUILDING
	C-104 S Parking C-104 SOUTH PARKING LOT C-105 NEW EMERGENCY OPERATIONS CENTER	G-16 F-11	C-614-A	NORTHEAST PLUME EQUIPMENT PAD	M-7	C-747 C-747-A C-747-A-T04	CONTAMINATED BURIAL A BURIAL AREA SCALE HOUSE SHED
	C-106 DISINTEGRATOR FACILITY C-200 GUARD AND FIRE HEADQUARTERS C-200-A OFFICE TRAILER	G-11 G-10 G-10	C-614-B C-614-C	NORTHEAST PLUME EXTRACTION WELL AREA NORTHEAST PLUME	M-7 M-7	C-747-B C-747-C C-747-D	BURIAL AREA OIL LANDFARM AREA H3 PAD CLAMSHELL (NOR
N - 6000	C-200-C-T01STORAGE SHEDC-200-C-T02STORAGE SHEDC-200-C-T03VEHICULAR PARKING (CARPORT)	G-10 G-10 G-10 G-10	C-615	EXTRACTION WELL AREA SEWAGE TREATMENT PLANT PRIMARY SETTLING TANK	D-10	C-747-E C-748-A	H3 PAD CLAMSHELL (SOU KOW DISPOSAL AREA
	C-200-C-T04 VEHICULAR PARKING (CARPORT) EMERGENCY EQUIPMENT	G-10 G-10 G-10	C-615-A C-615-B	/CATCH BASIN FINAL SETTLING TANK	D-10 D-10	C-748-B C-749 C-750	BURIAL GROUND BURIAL YARD GARAGE BUILDING
	C-202 GUARD TRAINING BUILDING C-203 EMERGENCY VEHICLE SHELTER	G-10 G-10	C-615-C	/CATCH BASIN SEWAGE PLANT MONITORING BUILDING	D-10		WASTE HOLDING PAD WASTE STORAGE FACILI WASTE CONTAINMENT ENCLO
	C-204 FORMER DISINTEGRATOR BUILDING C-205 RESPIRATOR ISSUE FACILITY C-206 FORMER PUMPER DRAFTER PIT	G-10 G-10 E-10	C-615-C1 C-615-D	SODIUM HYPOCHLORITE CONVERSION CHEMICAL STORAGE BUILDING DIGESTER	D-10 D-10	C-752-A-T10 C-752-B C-752-B-T01	OFFICE/BREAKROOM TRAI REFUELING STATION REFUELING STATION TRAI
N 5000	C-207 FORMER FIRE TRAINING FACILITY C-207-T01 EQUIPMENT STORAGE CARPORT C-208 FIRING RANGE	E-10 E-10 F-12	C-615-E C-615-F	TRICKLING FILTER DRY BED FOR TRICKLING FILTER	D-10 D-10	C-752-C C-752-C -T01-A C-752-C	DECONTAMINATION FACIL LAB/BREAKROOM TRAILE
N - 5000	C-209 PROTECTIVE FORCE BUILDING C-210 SECURITY MANAGEMENT OFFICE BUILDING	F-11 F-11	C-615-G C-615-H C-615-H1	SEWAGE LIFT STATION SEWAGE LIFT STATION SEWAGE LIFT STATION	G-10 G-8 J-9	-T01-T08 C-752-EV	SEALAND STORAGE TRAIL
9	C-211 TRAINING BUILDING C-213 HOBBS ROAD ACCESS POINT C-215-M SECURITY IMAC PORTAL (CA09040)	F-11 G-16 G-10	C-615-H2 C-615-H3 C-615-H5	SEWAGE LIFT STATION SEWAGE LIFT STATION SEWAGE LIFT STATION	G-8 J-9 J-9	C-753-A C-754	CHARGING STATION TSCA WASTE STORAGE FAC LOW LEVEL WASTE STOR/
5	C-216-M SECURITY IMAC PORTAL (CA09042) C-218 FIRING RANGE	G-10 G-10 D-10	C-615-H8 C-615-H10 C-615-H11	SEWAGE LIFT STATION SEWAGE LIFT STATION SEWAGE LIFT STATION	J-9 F-11 G-16	C-754-A C-754-B	WASTE MANAGEMENT STAGING AREA GUARD TRAINING FACILI
NI 4000	C-221 SECURITY COMPLEX RUNNING TRACK C-224 MAIN GUARD POST 15 BUILDING	F-11 G-11	C-615-H12 C-615-L	SEWAGE LIFT STATION OIL CONTROL MONITORING STATION	H-10 D-9	C-755 C-755-A C-755-A1	C-755 TRAILER COMPLE MAINTENANCE SHOP STORAGE SHED
N - 4000	C-225 POST 48 BUILDING C-225-A GRAVEL PARKING LOT C-233 OFFICE TRAILER/GUARD HOUSE	J-9 J-9 D-10	C-615-M C-615-N	OIL CONTROL STRUCTURE OIL CONTAINMENT LAGOON LIQUID POLLUTION	D-9 D-9	C-755-B C-755-C C-755-D	CHANGE HOUSE BUILDIN STORAGE FACILITY ELECTRICAL STORAGE
	C-300 CENTRAL CONTROL BUILDING C-302 OPERATIONS DIVISION DATA CENTER	H-10 G-10	C-616 C-616-A	ABATEMENT FACILITY CHEMICAL FEED BUILDING	F-7 G-7	C-755-E1 C-755-F1 C-755-G1	ABOVE GROUND STORM SHI ABOVE GROUND STORM SHI ABOVE GROUND STORM SHI
4	C-303 C-304 SUPERVISORY CONTROL AND DATA ACQUISITION SYSTEM OFFICE BUILDING	H-10 H-10	C-616-B C-616-C C-616-D	CLARIFIER (EAST) LIFT STATION SLUDGE VAULT AND VALVE PIT	G-7 G-7 G-7	C-755-H1	ABOVE GROUND STORM SHI SEALAND STORAGE CONTAIN SEALAND STORAGE CONTAIN
	C-304 Annex OFFICE BUILDING ANNEX C-310 PURGE AND PRODUCT BUILDING C-310-331-A BRIDGE (ENCLOSED)	H-10 H-10 H-10 H-10	C-616-E C-616-F C-616-H	SLUDGE LAGOON FULL FLOW LAGOON EAST-WEST DITCH LIFT STATION	F-6 F-6 G-8	C-755-M C-755-M1	WOODEN STORAGE SHE WOODEN STORAGE SHE
N3000	C-310-331-B TIE LINE C-310-A PRODUCT WITHDRAWAL BUILDING	H-10 H-10	C-616-H1	FERROUS SULFATE STORAGE TANK (EAST) FERROUS SULFATE	G-7	C-755-M2 C-755-M3 C-755-M4	WOODEN STORAGE SHE WOODEN STORAGE SHE WOODEN STORAGE SHE
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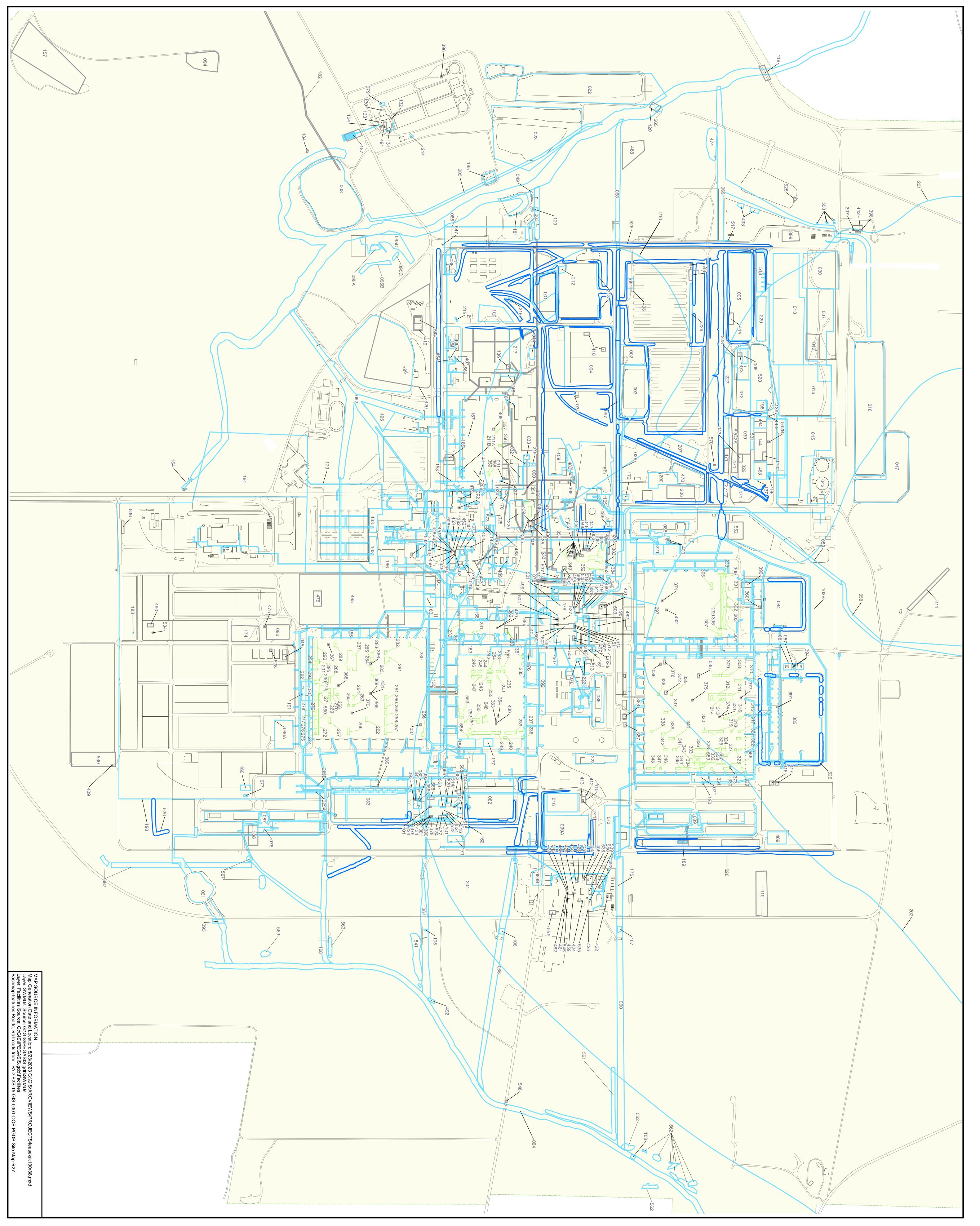
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RUCK SCALE AT LANDFILL WASTE STAGING PAD ELECTRICAL EQUIPMENT	H-3 F-8
STORAGE BUILDING NTAMINATED BURIAL AREA BURIAL AREA	I-7 E-9 E-7
SCALE HOUSE SHED BURIAL AREA	E-7 E-7
OIL LANDFARM AREA PAD CLAMSHELL (NORTH) PAD CLAMSHELL (SOUTH)	E-9 F-9 F-9
KOW DISPOSAL AREA BURIAL GROUND BURIAL YARD	D-11 E-9 E-8
GARAGE BUILDING WASTE HOLDING PAD	G-10 G-8
ASTE STORAGE FACILITY E CONTAINMENT ENCLOSURE FICE/BREAKROOM TRAILER	F-8 F-8 F-8
REFUELING STATION FUELING STATION TRAILER CONTAMINATION FACILITY	E-11 E-11 E-11
CONTAMINATION FACILITY AB/BREAKROOM TRAILER ALAND STORAGE TRAILERS	E-11 E-10 E-11
ELECTRIC VEHICLE CHARGING STATION	F-11
A WASTE STORAGE FACILITY W LEVEL WASTE STORAGE	G-8 H-9
WASTE MANAGEMENT STAGING AREA UARD TRAINING FACILITY	H-9 I-9
C-755 TRAILER COMPLEX MAINTENANCE SHOP STORAGE SHED	J-9 J-9 J-9
HANGE HOUSE BUILDING STORAGE FACILITY	K-9 J-9
ELECTRICAL STORAGE /E GROUND STORM SHELTER /E GROUND STORM SHELTER	K-9 J-9 J-9
/E GROUND STORM SHELTER /E GROUND STORM SHELTER ND STORAGE CONTAINERS (3)	J-9 J-9 K-9
LAND STORAGE CONTAINER VOODEN STORAGE SHED VOODEN STORAGE SHED	K-9 K-9 J-9
VOODEN STORAGE SHED VOODEN STORAGE SHED	J-9 J-9
VOODEN STORAGE SHED GRAVEL PARKING LOT VOODEN STORAGE SHED	K-9 J-9 J-9
VOODEN STORAGE SHED LAND STORAGE CONTAINER OFFICE TRAILER	J-9 G-10 K-9
VOODEN STORAGE SHED OFFICE TRAILER	K-9 J-9
OFFICE TRAILER OFFICE TRAILER OFFICE TRAILER	K-9 J-9 K-9
OFFICE TRAILER BREAKROOM TRAILER	J-9 K-9
SHOWER AND CHANGEROOM TRAILER OFFICE TRAILER	K-9 J-9
STORAGE TRAILER LAND STORAGE CONTAINER LAND STORAGE CONTAINER	5-5 K-9 J-9 J-9
SHOWER AND CHANGEROOM TRAILER	J-9
SHOWER TRAILER FICE/BREAKROOM TRAILER FICE/BREAKROOM TRAILER	J-9 J-9 J-9
FICE/BREAKROOM TRAILER OFFICE TRAILER STORAGE SHED	J-9 J-9 K-9
FICE/BREAKROOM TRAILER OFFICE TRAILER	J-9 J-9
OFFICE TRAILER STORAGE SHED STORAGE SHED	J-9 J-9 J-9
METAL CARPORTS/ EQUIPMENT SHEDS (6)	J-9
FORMER SALT STORAGE MALL MAINTENANCE SHOP STORAGE SHED	K-9 K-9 K-9
LAND STORAGE CONTAINER SOLID AND LOW-LEVEL (ASTE PROCESS FACILITY	J-9 G-7
STAGING AREA RPORT - FORMERLY ISOCS	F-8 F-8
DISPOSITION STORAGE AREA NSDD SURGE BASIN STE DISPOSITION STAGING	G-7 G-7 G-14
GRAVEL LAYDOWN AREA WITH METAL SHED PMENT STORAGE (CARPORT)	J-6
STORAGE SHED PARKING AREA	J-6 J-6 D-10
SANITARY WATER VAULT SANITARY WATER VAULT /E GROUND STORM SHELTER	E-10 E-10 D-10
/E GROUND STORM SHELTER OFFICE TRAILER	D-10 D-10
NFERENCE/OFFICE TRAILER OFFICE TRAILER OFFICE TRAILER	D-10 D-10 D-10
OFFICE TRAILER OFFICE TRAILER OFFICE TRAILER	D-10 D-10 D-10 D-10
OFFICE TRAILER OFFICE TRAILER OFFICE TRAILER	
	D-10 D-10 E-10
OFFICE TRAILER NORTHEAST PLUME CONTAINMENT SYSTEM	
OFFICE TRAILER NORTHEAST PLUME CONTAINMENT SYSTEM NORTHEAST PLUME CONTAINMENT SYSTEM	D-10 E-10 K-8 J-9
OFFICE TRAILER NORTHEAST PLUME CONTAINMENT SYSTEM NORTHEAST PLUME CONTAINMENT SYSTEM ING AREA - FORMER VORTEC DEMONSTRATION PLANT ETEOROLOGICAL TOWER	D-10 E-10 K-8 J-9 D-8 G-12
OFFICE TRAILER NORTHEAST PLUME CONTAINMENT SYSTEM NORTHEAST PLUME CONTAINMENT SYSTEM ING AREA - FORMER VORTEC DEMONSTRATION PLANT	D-10 E-10 K-8 J-9 D-8
OFFICE TRAILER NORTHEAST PLUME CONTAINMENT SYSTEM NORTHEAST PLUME CONTAINMENT SYSTEM ING AREA - FORMER VORTEC DEMONSTRATION PLANT ETEOROLOGICAL TOWER DMMUNICATIONS BUILDING METEOROLOGICAL	D-10 E-10 K-8 J-9 D-8 G-12 G-12
OFFICE TRAILER NORTHEAST PLUME CONTAINMENT SYSTEM NORTHEAST PLUME CONTAINMENT SYSTEM ING AREA - FORMER VORTEC DEMONSTRATION PLANT ETEOROLOGICAL TOWER DMMUNICATIONS BUILDING METEOROLOGICAL EQUIPMENT BUILDING PARKING AREA (C-100) PARKING AREA (C-720) OUTH ACID ROAD BRIDGE	D-10 E-10 K-8 J-9 D-8 G-12 G-12 G-12 G-12 G-11 F-11 F-16
OFFICE TRAILER NORTHEAST PLUME CONTAINMENT SYSTEM NORTHEAST PLUME CONTAINMENT SYSTEM ING AREA - FORMER VORTEC DEMONSTRATION PLANT ETEOROLOGICAL TOWER DMMUNICATIONS BUILDING METEOROLOGICAL EQUIPMENT BUILDING PARKING AREA (C-100) PARKING AREA (C-720)	D-10 E-10 K-8 J-9 D-8 G-12 G-12 G-12 G-12 G-12 F-11 F-16 C-7
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OFFICE TRAILER NORTHEAST PLUME CONTAINMENT SYSTEM NORTHEAST PLUME CONTAINMENT SYSTEM UNG AREA - FORMER VORTEC DEMONSTRATION PLANT ETEOROLOGICAL TOWER DMMUNICATIONS BUILDING METEOROLOGICAL TOWER DMMUNICATIONS BUILDING PARKING AREA (C-100) PARKING AREA (C-100) PARKING AREA (C-720) OUTH ACID ROAD BRIDGE RANSPORT ROAD BRIDGE DEPLET Uranium afluoride (DUF ₆) Conversion DESCRIPTION POST 49 BUILDING DMINISTRATION BUILDING STORM SHELTER A STORM SHELTER B	D-10 E-10 K-8 J-9 D-8 G-12 G-12 G-12 G-12 G-12 C-7 G-12 C-7 C-7 LOCATION G-13 G-13 G-13 G-13 G-13 G-13 G-13
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The table shown on pages A-9 through A-25 of Appendix A is from Appendix 4 of the *Site Management Plan*, *Paducah Gaseous Diffusion Plant, Paducah, Kentucky, Annual Revision—FY 2024*, DOE/LX/07-2495&D1.

				C-400 COMPLEX
Operable Unit	Subp	oroject	SWMU No.	Description
			11	C-400 TCE Leak Site
			40	C-403 Neutralization Tank slab and underlying soils
			47	C-400 Technetium Storage Tank Area
			98	C-400 Basement Sump
			203	C-400 Discard Waste System slab and underlying soils
			480	C-402 Lime House building slab and underlying soils
C-400	C-400	) Final	533	TCE Spill Site from TCE Unloading Operations at C-400
Complex OU	Remedial Action		DMSAs Waste M (October SWMUs 537) hav	MUs (349, 350, 351, 352, and 353) within the C-400 Building are that were designated as SWMUs under the Kentucky Hazardous fanagement Permit pursuant to a DOE-KDEP Agreed Order r 2003) and were not identified for action under the FFA. Ten other s within the C-400 Building (48, 49, 50, 51, 52, 53, 54, 383, 384, and re been designated as no further action (NFA) and are listed in the ction of Appendix 4.
				GROUNDWATER
	C-400 Interim		11	C-400 TCE Leak Site
	Remedial Action		533	TCE Spill Site from TCE Unloading Operations at C-400
	Southwest Plume Sources		1	C-747-C Oil Land Farm
			211 A	C-720 TCE Spill Site Northeast
GWOU			211 B	C-720 TCE Spill Site Southeast
0000	Dissolv	ad Dhaga	201	Northwest Groundwater Plume
	Dissolved-Phase Plumes		202	Northeast Groundwater Plume
			210	Southwest Groundwater Plume
	Potential Additional		NA	This operable unit is being reserved for remaining sources to
	Groundwater Sources			groundwater contamination that may be identified in the future
				SURFACE WATER
	S		58	North-South Diversion Ditch (NSDD) (Outside) (includes KPDES 003)
	WO		60	C-375-E2 Effluent Ditch (KPDES 002) ⁸
	DC	Rer	61	C-375-E5 Effluent Ditch (KPDES 013) ⁸
	Re	nov	62	C-375-S6 SW Ditch (KPDES 009) ⁸
SWOU	me	val	63	C-375-W7 Oil Skimmer Ditch (KPDES 008 and KPDES 004)
	SWOU Remedial Action	Removal Action	66	C-375-E3 Effluent Ditch (KPDES 010)
	1 A	tio	67	C-375-E4 Effluent Ditch (C-340 Ditch) (KPDES 011)
	ctic	D	68	C-375-W8 Effluent Ditch (KPDES 015)
	on		69	C-375-W9 Effluent Ditch (KPDES 001)
			92	Fill Area for Dirt from the C-420 PCB Spill Site

#### Solid Waste Management Units/Areas of Concern by Operable Unit

⁸ The results of the Surface Water Operable Unit (SWOU) (On-Site) Site Investigation determined that there were no unacceptable levels of risk to current and anticipated future receptors that warranted inclusion of Solid Waste Management Unit (SWMU) 60 (Outfall 002), SWMU 168 (Outfall 012), or SWMU 102 (Paducah Gaseous Diffusion Plant storm sewer systems associated with C-333-A, C-337-A, C-340, C-535, and C-537). As a result, no action will be taken for these SWMUs as originally planned under the SWOU removal action. These SWMUs will be evaluated further as part of the SWOU remedial action. It also should be noted that during development of the Sampling and Analysis Plan for SWOU (On-Site) Removal Action, Outfall 009 and Outfall 013 were evaluated. This assessment of the outfalls, which included a review of historical data, indicated that Outfall 009 and Outfall 013 did not require an early action, and further assessment of Outfall 009 and Outfall 013 would be addressed during the Comprehensive Site Operable Unit (CSOU). Based upon current site strategy, Outfall 009 and Outfall 013 also will be addressed as part of the SWOU remedial action.

		SURFAC	CE WATER (CONTINUED)
Operable Unit	Subproject	SWMU No.	Description
		97	C-601 Diesel Spill
	Removal Action SWOU Remedial Action	102 B	Plant Storm Sewer associated with C-333-A, C-337-A, C-340, C-535, and C-537 ⁹
	on val	168	KPDES Outfall Ditch 0129
		526	Internal Plant Drainage Ditches (includes KPDES 016) ¹⁰
		64	Little Bayou Creek
		65	Bayou Creek
		93	Concrete Disposal Area East of Plant Security Area
		105	Concrete Rubble Pile (3)
	S	106	Concrete Rubble Pile (4)
CWOU	WC	107	Concrete Rubble Pile (5)
SWOU	SWOU Remedial Action	108 109	Concrete Rubble Pile (6) Concrete Rubble Pile (7)
	Rej	109	Concrete Rubble Pile (1)
	me	113	Concrete Rubble Pile (27)
	dial	125	Concrete Rubble Pile (28)
	A	185	C-611-4 Horseshoe Lagoon (includes KPDES 014)
	ctic	199	Big Bayou Creek Monitoring Station
	ň	205	Eastern Portion of Yellow Water Line
		549	Dirt/Concrete Rubble Pile near Outfall 008
		550	Concrete Culvert Sections Located on the West Bank of the
			Ditch Leading to Outfall 001
		Others	Outfalls 017, 018, 019/020, and 526 and associated ditches
			LAGOONS
		17	C-616-E Sludge Lagoon
	Process Lagoons	18	C-616-F Full-Flow Lagoon
Lagoons	11000000 Eugeonis	171	C-617-B Lagoon (formerly identified as C-617-A in the
ÕU		21	10/12/1992 SAR)
	Water Treatment	21 22	C-611-W Sludge Lagoon
	System Lagoons	22	C-611-Y Overflow Lagoon (includes KPDES 006) C-611-V Lagoon (includes KPDES 005)
		_	BURIAL GROUNDS
		2	C-749 Uranium Burial Ground
		3	C-404 Low-Level Radioactive Waste Burial Ground
		4	C-747 Contaminated Burial Ground
		5	C-746-F Classified Burial Ground
	BGOU Remedial		C-747-B Burial Area
DCOU	(10 SWMUs)	7	C-747-A Burial Ground
BGOU		9	C-746-S Residential Landfill
		10	C-746-T Inert Landfill
		30	C-747-A Burn Area
		145	Residential/Inert Landfill Borrow Area (P-Landfill)
	Additional	472	C-746-B Pad
	Burial Grounds	520	Scrap Material West of C-746-A

 ⁹ See footnote #8.
 ¹⁰ Kentucky Pollutant Discharge Elimination System (KPDES) Outfall 016, in its entirety, will be addressed as part of the SWOU Remedial Investigation.

			SOILS
Operable Unit	Subproject	SWMU No.	Description
emit		1	C-747-C Oil Land Farm
		13	C-746-P Clean Scrap Yard ¹¹
		14	C-746-E Contaminated Scrap Yard
		15	C-746-C Scrap Yard ¹¹
		19	C-410-B HF Neutralization Lagoon
		26	C-400 to C-404 Underground Transfer Line ¹¹
		56	C-540-A PCB Waste Staging Area ^{11, 12}
		57	C-541-A PCB Waste Staging Area ¹¹
		76	C-632-B Sulfuric Acid Storage Tank
		77	C-634-B Sulfuric Acid Storage Tank ^{11, 13}
		80	C-540-A PCB Spill Site ¹¹
		81	C-541-A PCB Spill Site
		99 B	C-745 Kellogg Bldg. Site—Septic Tank/Leach Field
		138	C-100 Southside Berm
		153	C-331 PCB Soil Contamination (West)
		156	C-310 PCB Soil Contamination (West Side)
		158	Chilled-Water System Leak Site
		160	C-745 Cylinder Yard Spoils (PCB Soils)
		163	C-304 Bldg./HVAC Piping System (Soil Backfill)
		165	C-616-L Pipeline & Vault Soil Contamination
Soils OU	Soils -	169	C-410-E HF Vent Surge Protection Tank
	Remedial	170	C-729 Acetylene Bldg. Drain Pits
		180	Outdoor Firing Range (WKWMA)
		181	Outdoor Firing Range (PGDP)
		194	McGraw Construction Facilities (South Side Leach Field Area)
		195	Curlee Road Contaminated Soil Mounds
		196	C-746-A Septic System
		200	Soil Contamination South of TSCA Waste Storage Facility
		204	Dykes Road Historical Staging Area ¹¹
		211 A	C-720 TCE Spill Site Northeast ¹¹
		212	C-745-A Radiological Contamination Area
		213	OS-02
		214	OS-03
		215	OS-04
		216	OS-05 ¹⁴
		217	OS-06
		219	OS-08
		221	OS-10
		222	OS-11
		224	OS-13 ¹¹
		225 A	OS-14 ¹¹

¹¹ These SWMUs/areas of concern (AOCs) were evaluated under Soils OU RI 2 and will be addressed by a subsequent Soils OU feasibility study.

¹² SWMUs 56 and 57 are located within, and will be addressed as part of, SWMUs 80 and 81, respectively.

 ¹³ This SWMU was evaluated as part of the Soils Operable Unit. The soils and underlying slabs associated with this SWMU will be addressed under the Soils and Slabs OU as part of post-GDP shutdown activities.
 ¹⁴ The boundaries for SWMU 216 were revised after the Soils OU RI was completed; as a result, the conclusions in the Soils OU

¹⁴ The boundaries for SWMU 216 were revised after the Soils OU RI was completed; as a result, the conclusions in the Soils OU RI Report for SWMU 216 are incomplete and will need to be addressed in a subsequent action.

Operable Unit         Subproject         SWMU No.         Description           225 B         Contaminated Soil Area near C-533-1 DMSA 0S-14 ¹⁵ 227         0S-16           228         OS-17         229         OS-17         229         OS-17           229         OS-18         Rubble Pile WKWMA (approximately 116 ft off roadside)         488         Rubble Pile WKWMA (approximately 483 ft off roadside)           488         PCB Contaminated Soil Area Near Outfall 010         493         Concrete Rubble Piles Near Outfall 010           489         Septic Tank North of C-710 Laboratory         492         Contaminated Soil Area Near Outfall 010           517         Rubble and Debris Erosion Control Fill Area         518         Field South of C-746-P1 Clean Scrap Yard           5018         Conterve Rubble Pile WCC-746-A         531         Aluminum Slag Reacting Area (C-746-H4) near the C-746-A           518         Field South of C-746-P1 Clean Scrap Yard         561         561         Soil Pile 1           561         Soil Pile C, D, E, F, G, H, J, K, and P in subunit 1 north of Soil Pile 1         562         Soil Piles C, D, C, and BW in subunit 4 north of outfall 012 west of Little Bayou Creek           563         Soil Pile Ara KY-19 (along Bayou Creek north of C-611 Water Treatment Plant) ¹⁵ 567         Soil Pile K013 near Outfall 013, West of Little Bayou Creek			SO	ILS (CONTINUED)
Soils OU       225 B       Contaminated Soil Area near C-533-1 DMSA OS-14 ¹⁵ 227       OS-16       227         228       OS-17       229         229       OS-18 ¹⁵ 227         486       Rubble Pile WKWMA (approximately 116 ft off roadside)         487       Rubble Pile WKWMA (approximately 483 ft off roadside)         488       PCB Contamination Area by the C-410 Trailer Complex         489       Septic Tank North of C-710 Laboratory         492       Contaminated Soil Area Near Outfall 010         493       Concrete Rubble Piles Near Outfall 010         492       Contaminated Soil Area Near Outfall 010         493       Scriptic Tank North of Trosion Control Fill Area         518       Field South of C-746-A         (Continued)       511       Rubble Piles Near Outfall 011         512       Scill Pile 1       Scill Aluminum Slag Reacting Area (C-746-H4) near the C-746-A         (Continued)       561       Soil Pile 1       Scill Numinum Slag Reacting Area (C-746-H4) near the C-746-A         (Continued)       561       Soil Piles C), D, E, F, G, H, J, K, and P in subunit 1 north of Soil Pile Contaminated Soil Area South of Outfall 011         561       Soil Pile AT in subunit 5 that consists of three soil areas on the east side of the NSDD north of the P, S-, and T-Landfills	<b>Operable Unit</b>	Subproject	SWMU No.	Description
Soils OU (Continued)         227         OS-16           Soils OU (Continued)         486         Rubble Pile WKWMA (approximately 116 ft off roadside)           488         PCB Contamination Area by the C-410 Trailer Complex           488         PCB Contamination Area by the C-410 Trailer Complex           489         Septic Tank North of C-710 Laboratory           492         Contraminated Soil Area Near Outfall 010           493         Concrete Rubble Piles Near Outfall 010           517         Rubble and Debris Erosion Control Fill Area           518         Field South of C-746-P1 Clean Scrap Yard           520         Scrap Material West of C-746-A           (Continued)         531         Aluminum Slag Reacting Area (C-746-H4) near the C-746-A           541         Contaminated Soil Area South of Outfall 011         561           562         Soil Piles C, D, E, F, G, H, J, K, and P in subunit 1 north of Soil Pile 1 on the west bank of Little Bayou Creek           563         Soil Piles C, D, C, and BW in subunit 4 north of outfall 012 west of Little Bayou Creek           564         Soil Piles C, D, C, and BW in subunit 4 north of c-611 Water Treatment Plant) ¹⁵ 565         Rubble Area KY-19 (along Bayou Creek north of C-611 Water Treatment Plant) ¹⁵ 566         Soil Pile K013 near Outfall 013, West of Little Bayou Creek           Soils a				
Soils OU (Continued)       229       OS-18 ¹⁵ Soils OU (Continued)       486       Rubble Pile WKWMA (approximately 116 ft off roadside)         487       Rubble Pile WKWMA (approximately 483 ft off roadside)         488       PCB Contaminated Soil Area Near Outfall 010         489       Septic Tank North of C-710 Laboratory         492       Contaminated Soil Area Near Outfall 010         493       Concrete Rubble Piles Near Outfall 010         501       Sils Field South of C-746-P1 Clean Scrap Yard         520       Scrap Material West of C-746-A         (Continued)       531       Aluminum Slag Reacting Area (C-746-H4) near the C-746-A         521       Soil Pile X       Contaminated Soil Area South of Outfall 011         561       Soil Pile 1       562       Soil Piles 02, CC, and BW in subunit 1 north of Soil Pile 1 on the west bank of Little Bayou Creek         563       Soil Piles 20, CC, and BW in subunit 4 north of outfall 012 west of Little Bayou Creek       564         565       Rubble Area KY-19 (along Bayou Creek north of C-611 Water Treatment Plant) ¹⁵ 567         568       Soil Pile K013 near Outfall 013, West of Little Bayou Creek       20         SULS AND SLABS       216       C-746-D Classified Scrap Yard         20       C-410-E HF Emergency Holding Pond slab and underlying soils      <				
Soils OU (Continued)         486         Rubble Pile WKWMA (approximately 116 ft off roadside)           487         Rubble Pile WKWMA (approximately 483 ft off roadside)           488         PCE Contamination Area by the C-410 Trailer Complex           489         Septic Tank North of C-710 Laboratory           492         Contaminated Soil Area Near Outfall 010           518         Field South of C-746-P1 Clean Scrap Yard           520         Scrap Material West of C-746-A           520         Scrap Material West of C-746-H) of unstance           531         Aluminum Slag Reacting Area (C-746-H4) near the C-746-A Facility           541         Contaminated Soil Area South of Outfall 011           561         Soil Pile C, D, E, F, G, H, J, K, and P in subunit 1 north of Soil Pile 1 on the west back of Little Bayou Creek           563         Soil Piles C, D, E, F, G, H, J, K, and T-Landfills           564         Soil Pile AT in subunit 5 that consists of three soil areas on the east side of the NSDD north of the P-, S-, and T-Landfills           5657         Soil Pile K013 near Outfall 013, West of Little Bayou Creek           5667         Soil Pile K013 near Outfall 013, West of Little Bayou Creek           567         Soil Pile K013 near Outfall 013, West of Little Bayou Creek           567         Soil Pile K013 near Outfall 013, West of Little Bayou Creek           518			228	OS-17
Soils OU (Continued)         487         Rubble Pile WKWMA (approximately 483 ft off roadside)           489         Septic Tank North of C-710 Laboratory           492         Contaminated Soil Area Near Outfall 010           493         Concrete Rubble Piles Near Outfall 010           511         Rubble and Debris Erosion Control Fill Area           518         Field South of C-746-P1 Clean Scrap Yard           520         Scrap Material West of C-746-A           (Continued)         531           541         Contaminated Soil Area South of Outfall 011           562         Soil Piles C, D, E, F, G, H, J, K, and P in subunit 1 north of Soil Pile I on the west bank of Little Bayou Creek           563         Soil Piles CD, C, and BW in subunit 4 north of outfall 012 west of Little Bayou Creek           564         Soil Piles CD, Cand BW in subunit 4 north of C-611 Water Treatment Plant) ¹⁵ 565         Rubble Area KY-19 (along Bayou Creek north of C-611 Water Treatment Plant) ¹⁵ 566         Soil Pile KO13 near Outfall 013, West of Little Bayou Creek           501         Soil Neik KV19 (along Bayou Creek north of C-611 Water Treatment Plant) ¹⁵ 567         Soil Pile KO13 near Outfall 013, West of Little Bayou Creek           568         C-722 Acid Neutralization Tank           529         C-722 Comprescreay Yard           20			229	OS-18 ¹⁵
Soils OU (Continued)         487         Rubble Pile WKWMA (approximately 483 ft off roadside)           489         Septic Tank North of C-710 Laboratory           492         Contaminated Soil Area Near Outfall 010           493         Concrete Rubble Piles Near Outfall 010           511         Rubble and Debris Erosion Control Fill Area           518         Field South of C-746-P1 Clean Scrap Yard           520         Scrap Material West of C-746-A           (Continued)         531           541         Contaminated Soil Area South of Outfall 011           561         Soil Piles C, D, E, F, G, H, J, K, and P in subunit 1 north of Soil Pile I on the west bank of Little Bayou Creek           562         Soil Piles C, D, E, T, G, H, J, K, and P in subunit 1 north of Soil Pile I on the west bank of Little Bayou Creek           563         Soil Piles C, D, E, M BWI in subunit 4 north of outfall 012 west of Little Bayou Creek           564         Soil Pile AT in subunit 5 that consists of three soil areas on the east side of the NSDD north of the P-, S-, and T-Landfills           565         Rubble Area KY-19 (along Bayou Creek north of C-611 Water Treatment Plant) ¹⁵ 567         Soil Pile K013 near Outfall 013, West of Little Bayou Creek           Soils and Slabs OU         16         C-724 congressor Pit Water Storage Tank slab and underlying soils           22         C-722 Coleanimaste Side area			486	Rubble Pile WKWMA (approximately 116 ft off roadside)
Soils OU (Continued)       489       Septic Tank North of C-710 Laboratory         492       Contaminated Soil Area Near Outfall 010         493       Concrete Rubble Piles Near Outfall 001         517       Rubble and Debris Erosion Control Fill Area         518       Field South of C-746-P1 Clean Scrap Yard         520       Scrap Material West of C-746-H4) near the C-746-A         (Continued)       531         541       Contaminated Soil Area South of Outfall 011         562       Soil Piles C, D, E, F, G, H, J, K, and P in subunit 1 north of Soil Pile 1 on the west bank of Little Bayou Creek         563       Soil Piles C, C, and BW in subunit 4 north of outfall 012 west of Little Bayou Creek         564       Soil Pile AT in subunit 5 that consists of three soil areas on the east side of the NSDD north of the P-, S-, and T-Landfills         565       Rubble Area XY-19 (along Bayou Creek north of C-611 Water Treatment Plant) ¹⁵ 567       Soil Pile K013 near Outfall 013, West of Little Bayou Creek         Soils and Slabs         OU       16         61       C-746-D Classified Scrap Yard         20       C-410-E HF Emergency Holding Pond slab and underlying soils         21       C-722 Acid Neutralization Tank slab and underlying soils         22       C-728 Klotor Cleaning Facility slab and underlying soils			487	
Soils OU (Continued)       492       Contaminated Soil Area Near Outfall 010         Soils OU (Continued)       5018       Remedial (Continued)       517       Rubble and Debris Erosion Control Fill Area         518       Field South of C-746-P1 Clean Scrap Yard       520       Scrap Material West of C-746-A         520       Scrap Material West of C-746-A       Facility         541       Contaminated Soil Area South of Outfall 011         561       Soil Piles C, D, E, F, G, H, J, K, and P in subunit 1 north of Soil Pile I on the west bank of Little Bayou Creek         563       Soil Piles 20, CC, and BW in subunit 4 north of outfall 012 west of Little Bayou Creek         564       Soil Pile AT in subunit 5 that consists of three soil areas on the east side of the NSDD north of the P-, S-, and T-Landfills         565       Rubble Area KY-19 (along Bayou Creek north of C-611 Water Treatment Plant) ¹⁵ 567       Soil Pile KD1 area Outfall 013, West of Little Bayou Creek         SOILS AND SLABS         OU       C-712 Laboratory Equalization Tank 28       C-712 Laboratory Equalization Tank slab and underlying soils 27         Soils and Slabs OU       38       C-615 Sewage Treatment Plant slab and underlying soils 31       C-720 Compressor Pit Water Storage Tank slab and underlying soils 32         Soils and Slabs       38       C-616 Chronate Reduction Facility slab and underlying soils 33       C-728 Clean Waste			488	PCB Contamination Area by the C-410 Trailer Complex
Soils OU (Continued)       493       Concrete Rubble Piles Near Outfall 001         Soils OU (Continued)       Soils Remedial (Continued)       517       Rubble and Debris Erosion Control Fill Area         Sils OU (Continued)       518       Field South of C-746-P1 Clean Scrap Yard         S20       Scrap Material West of C-746-A         S11       Aluminum Slag Reacting Area (C-746-H4) near the C-746-A Facility         S41       Contaminated Soil Area South of Outfall 011         S61       Soil Pile I         S62       Soil Piles C, D, E, F, G, H, J, K, and P in subunit 1 north of Soil Pile I on the west bank of Little Bayou Creek         S63       Soil Piles 20, CC, and BW in subunit 4 north of outfall 012 west of Little Bayou Creek         S64       Soil Pile AT in subunit 5 that consists of three soil areas on the east side of the NSDD north of the P-, S-, and T-Landfills         S65       Rubble Area KY-19 (along Bayou Creek north of C-611 Water Treatment Plant) ¹⁵ S67       Soil Pile K013 near Outfall 013, West of Little Bayou Creek         S0ILS AND SLABS       16       C-746-D Classified Scrap Yard         20       C-410-E HF Emergency Holding Pond slab and underlying soils         21       C-722 Acid Neutralization Tank slab and underlying soils         31       C-720 Compressor Pit Water Storage Tank slab and underlying soils         32       C-728 Clean Waste				
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Soils OU (Continued)       Soils Remedial (Continued)       520       Scrap Material West of C-746-A         Signed Continued)       531       Aluminum Slag Reacting Area (C-746-H4) near the C-746-A Facility         Soil Signed Continued)       531       Contaminated Soil Area South of Outfall 011         561       Soil Pile I       Soil Piles C, D, E, F, G, H, J, K, and P in subunit 1 north of Soil Pile I on the west bank of Little Bayou Creek         563       Soil Piles 20, CC, and BW in subunit 4 north of outfall 012 west of Little Bayou Creek       564         564       Soil Pile AT in subunit 5 that consists of three soil areas on the east side of the NSDD north of the P-, S-, and T-Landfills         565       Rubble Area KY-19 (along Bayou Creek north of C-611 Water Treatment Plant) ¹⁵ 567       Soil Pile K013 near Outfall 013, West of Little Bayou Creek         SOILS AND SLABS         16       C-746-D Classified Scrap Y ard         20       C-712 Laboratory Equalization Tank slab and underlying soils         31       C-720 Compressor Pit Water Storage Tank slab and underlying soils         32       C-728 Clean Waste Oil Tanks slab and underlying soils         33       C-728 Motor Cleaning Facility slab and underlying soils         34       C-615 Sewage Treatment Plant slab and underlying soils         33       C-728 Clean Waste Oil Tanks slab and underlying soils <t< td=""><td></td><td></td><td></td><td></td></t<>				
Soils OU (Continued)       Remedial (Continued)       520       Scrap Material West of C-746-A         Sill       Aluminum Slag Reacting Area (C-746-H4) near the C-746-A Facility         541       Contaminated Soil Area South of Outfall 011         561       Soil Piles C, D, E, F, G, H, J, K, and P in subunit 1 north of Soil Pile I on the west bank of Little Bayou Creek         563       Soil Piles 20, CC, and BW in subunit 4 north of outfall 012 west of Little Bayou Creek         564       Soil Pile AT in subunit 5 that consists of three soil areas on the east side of the NSDD north of the P-, S-, and T-Landfills         565       Rubble Area KY-19 (along Bayou Creek north of C-611 Water Treatment Plant) ¹⁵ 567       Soil Pile K013 near Outfall 013, West of Little Bayou Creek         SOILS AND SLABS         16         C-712 Caboratory Equalization Tank slab and underlying soils 27         27         C-728 Clean Waste Oil Tanks slab and underlying soils 31         32         Soils and Slabs OU         OU       38       C-615 Sewage Treatment Plant slab and underlying soils 32       C-728 Clean Waste Oil Tanks slab and underlying soils 33       C-728 Clean Waste Oil Tanks slab and underlying soils 34       C-710 Cheat reatment Plant slab and underlying soils 35       C-405 Incinerator building slab and underlying soils 36       C-616 Chromate Reduction Facil		Soils		
(Continued)       531       Aluminum Slag Reacting Area (C-746-H4) near the C-746-A Facility         Facility       541       Contaminated Soil Area South of Outfall 011         561       Soil Pile I       562         562       Soil Piles C, D, E, F, G, H, J, K, and P in subunit 1 north of Soil Pile I on the west bank of Little Bayou Creek         563       Soil Piles 20, CC, and BW in subunit 4 north of outfall 012 west of Little Bayou Creek         564       Soil Pile AT in subunit 5 that consists of three soil areas on the east side of the NSDD north of the P-, S-, and T-Landfills         Rubble Area KY-19 (along Bayou Creek north of C-611 Water Treatment Plant) ¹⁵ 565         564       Soil Pile K013 near Outfall 013, West of Little Bayou Creek         SOILS AND SLABS         20       C-410-E HE Emergency Holding Pond slab and underlying soils 27         27       C-722 Acid Neutralization Tank slab and underlying soils 31         28       C-712 Laboratory Equalization Tank slab and underlying soils 31         31       C-728 Clean Waste Oil Tanks slab and underlying soils 33         32       C-728 Clean Waste Oil Tanks slab and underlying soils 34         33       C-615 Sewage Treatment Plant slab and underlying soils 34         34       C-615 Chromate Reduction Facility slab and underlying soils 55         55       C-405 Incinerator building slab and underlying soils 70 <td>Soils OU</td> <td></td> <td></td> <td>Scrap Material West of C-746-A</td>	Soils OU			Scrap Material West of C-746-A
Soils and Slabs       1       Facility         Soils and Slabs       16       C-722 Relation Tanks slab and underlying soils         Soils and Slabs       10       C-728 Rotor Cleaning Factor Dividing soils         Soils and Slabs       10       C-728 Apprized Slab and underlying soils         Soils and Slabs       10       C-728 Apprized Slab and underlying soils         To       C-728 Apprized Slab and underlying soils         C-728 Apprized Slab and underlying soils       10         C-728 Apprized Slab and underlying soils       11         C-728 Apprized Slab and underlying soils       12         C-728 Apprized Slab and underlying soils       13         C-728 Apprizer slab and u	(Continued)		531	
561       Soil Pile I         562       Soil Piles C, D, E, F, G, H, J, K, and P in subunit 1 north of Soil Pile 1 on the west bank of Little Bayou Creek         563       Soil Piles 20, CC, and BW in subunit 4 north of outfall 012 west of Little Bayou Creek         564       Soil Pile AT in subunit 5 that consists of three soil areas on the east side of the NSDD north of the P-, S-, and T-Landfills         565       Rubble Area KY-19 (along Bayou Creek north of C-611 Water Treatment Plant) ¹⁵ 567       Soil Pile K013 near Outfall 013, West of Little Bayou Creek         SOILS AND SLABS         16       C-740-D Classified Scrap Yard         20       C-410-E HF Emergency Holding Pond slab and underlying soils         27       C-722 Acid Neutralization Tank         28       C-712 Laboratory Equalization Tank slab and underlying soils         31       C-728 Clean Waste Oil Tanks slab and underlying soils         32       C-728 Motor Cleaning Facility slab and underlying soils         33       C-615 Sewage Treatment Plant slab and underlying soils         34       C-410-C Neutralization Tank slab and underlying soils         42       C-616 Chromate Reduction Facility slab and underlying soils         55       C-405 Incinerator building slab and underlying soils         55       C-405 Incinerator building slab and underlying soils         51		(continued)		
Soil Piles C, D, E, F, G, H, J, K, and P in subunit 1 north of Soil         Pile I on the west bank of Little Bayou Creek         Soil Piles 20, CC, and BW in subunit 4 north of outfall 012 west of Little Bayou Creek         Soil Piles AT in subunit 5 that consists of three soil areas on the east side of the NSDD north of the P-, S-, and T-Landfills         Sof5       Rubble Area KY-19 (along Bayou Creek north of C-611 Water Treatment Plant) ¹⁵ 567       Soil Pile K013 near Outfall 013, West of Little Bayou Creek         SOILS AND SLABS         C-746-D Classified Scrap Y ard         20       C-410-E HF Emergency Holding Pond slab and underlying soils         27       C-722 Acid Neutralization Tank         28       C-712 Laboratory Equalization Tank slab and underlying soils         31       C-720 Compressor Pit Water Storage Tank slab and underlying soils         32       C-728 Clean Waste Oil Tanks slab and underlying soils         33       C-728 Motor Cleaning Facility slab and underlying soils         341       C-410-C Neutralization Tank slab and underlying soils         341       C-616 Sewage Treatment Plant slab and underlying soils         35       C-405 Incinerator building slab and underlying soils         36       C-616 Chromate Reduction Facility slab and underlying soils         37       C-337-A Vaporizer slab and underlying soils <t< td=""><td></td><td></td><td></td><td></td></t<>				
Soils and Slabs       Pile I on the west bank of Little Bayou Creek         Soil Piles 20, CC, and BW in subunit 4 north of outfall 012 west of Little Bayou Creek         Soil Pile AT in subunit 5 that consists of three soil areas on the east side of the NSDD north of the P-, S-, and T-Landfills         Soil Pile AT in subunit 5 that consists of three soil areas on the east side of the NSDD north of the P-, S-, and T-Landfills         Soil Pile AT in subunit 5 that consists of three soil areas on the east side of the NSDD north of the P-, S-, and T-Landfills         Soil Soil Pile K013 near Outfall 013, West of Little Bayou Creek         SOILS AND SLABS         16       C-746-D Classified Scrap Yard         20       C-410-E HF Emergency Holding Pond slab and underlying soils         27       C-722 Acid Neutralization Tank         28       C-712 Laboratory Equalization Tank slab and underlying soils         31       C-720 Compressor Pit Water Storage Tank slab and underlying soils         32       C-728 Motor Cleaning Facility slab and underlying soils         33       C-728 Motor Cleaning Facility slab and underlying soils         41       C-410-C Neutralization Tank slab and underlying soils         55       C-405 Incinerator building slab and underlying soils         55       C-406 Chromate Reduction Facility slab and underlying soils         60U       38       C-616 Chromate Reduction Facility slab and underlying soils				
563       Soil Piles 20, CC, and BW in subunit 4 north of outfall 012 west of Little Bayou Creek         564       Soil Pile AT in subDn orth of the P-, S-, and T-Landfills         565       Rubble Area KY-19 (along Bayou Creek north of C-611 Water Treatment Plant) ¹⁵ 567       Soil Pile K013 near Outfall 013, West of Little Bayou Creek         SOILS AND SLABS         16       C-746-D Classified Scrap Yard         20       C-410-E HF Emergency Holding Pond slab and underlying soils         27       C-722 Acid Neutralization Tank         28       C-712 Laboratory Equalization Tank slab and underlying soils         31       C-720 Compressor Pit Water Storage Tank slab and underlying soils         31       C-728 Clean Waste Oil Tanks slab and underlying soils         32       C-712 Motor Cleaning Facility slab and underlying soils         33       C-615 Sewage Treatment Plant slab and underlying soils         41       C-410-C Neutralization Tank slab and underlying soils         42       C-616 Chromate Reduction Facility slab and underlying soils         55       C-405 Incinerator building slab and underlying soils         70       C-337-A Vaporizer slab and underlying soils         71       C-340 PCB Transformer Spill Site			562	
soil       of Little Bayou Creek         564       Soil Pile AT in subunit 5 that consists of three soil areas on the east side of the NSDD north of the P-, S-, and T-Landfills         565       Rubble Area KY-19 (along Bayou Creek north of C-611 Water Treatment Plant) ¹⁵ 567       Soil Pile K013 near Outfall 013, West of Little Bayou Creek         SOILS AND SLABS         16         20       C-410-E HF Emergency Holding Pond slab and underlying soils         27       C-722 Acid Neutralization Tank         28       C-712 Laboratory Equalization Tank slab and underlying soils         31       C-720 Compressor Pit Water Storage Tank slab and underlying soils         31       C-728 Clean Waste Oil Tanks slab and underlying soils         32       C-728 Motor Cleaning Facility slab and underlying soils         33       C-728 Motor Cleaning Facility slab and underlying soils         41       C-410-C Neutralization Tank slab and underlying soils         42       C-616 Chromate Reduction Facility slab and underlying soils         42       C-616 Chromate Reduction Facility slab and underlying soils         55       C-405 Incinerator building slab and underlying soils         70       C-333-A Vaporizer slab and underlying soils         71       C-337-A Vaporizer slab and underlying soils         72       C-340 PCB T				
564       Soil Pile AT in subunit 5 that consists of three soil areas on the east side of the NSDD north of the P-, S-, and T-Landfills         565       Rubble Area KY-19 (along Bayou Creek north of C-611 Water Treatment Plant) ¹⁵ 567       Soil Pile K013 near Outfall 013, West of Little Bayou Creek         SOILS AND SLABS         16       C-746-D Classified Scrap Y ard         20       C-410-E HF Emergency Holding Pond slab and underlying soils         27       C-722 Acid Neutralization Tank         28       C-712 Laboratory Equalization Tank slab and underlying soils         31       C-720 Compressor Pit Water Storage Tank slab and underlying soils         32       C-728 Clean Waste Oil Tanks slab and underlying soils         33       C-728 Motor Cleaning Facility slab and underlying soils         34       C-615 Sewage Treatment Plant slab and underlying soils         38       C-616 Chromate Reduction Facility slab and underlying soils         41       C-405 Incinerator building slab and underlying soils         55       C-405 Incinerator building slab and underlying soils         70       C-333-A Vaporizer slab and underlying soils         71       C-340 PCB Transformer Spill Site			563	
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71C-337-A Vaporizer slab and underlying soils74C-340 PCB Transformer Spill Site				
74 C-340 PCB Transformer Spill Site				
			75	C-633 PCB Spill Site

¹⁵ See footnote #11.

<b>Operable Unit</b>	Subproject	SWMU No.	ND SLABS (CONTINUED) Description
Operable Unit	Supproject	77	C-634-B-Sulfuric Acid Storage Tank slab and underlying soils
		78	C-420 PCB Spill Site
		78	
		82	C-611 PCB Spill Site C-531 Switchyard slab and underlying soils
		83	C-533 Switchyard slab and underlying soils
		83	C-535 Switchyard slab and underlying soils
		85	C-537 Switchyard slab and underlying soils
		85	C-537 Switchyard stab and underlying sons C-631 Pumphouse and Cooling Tower Slabs and Associated Soil
		80	
			C-633 Pumphouse and Cooling Tower Slabs and Associated Soil
		<u>88</u> 89	C-635 Pumphouse and Cooling Tower Slabs and Associated Soil
			C-637 Pumphouse and Cooling Tower slab and underlying soils
		99 A 135	C-745 Kellogg Bldg. Site–Cylinder Yard C-333 PCB Soil Contamination (North Side)
		133	
			C-746-A Inactive PCB Transformer Sump Area ¹⁶ C-331 PCB Soil Contamination (Southeast)
		<u>154</u> 155	
			C-333 PCB Soil Contamination (West)
		159	C-746-H3 Storage Pad slab and underlying soils
		<u>161</u> 162	C-743-T-01 Trailer Site (Soil Backfill)
			C-617-A Sanitary Water Line (Soil Backfill)
Soils and Slabs		166 167	C-100 Trailer Complex Soil Contamination (East Side)
OU			C-720 White Room Sump slab and underlying soils
(Continued)		172	C-726 Sandblasting Facility slab and underlying soils
(Continued)		176	C-331 RCW Leak Northwest Side
		177	C-331 RCW Leak East Side
		178	C-724-A Paint Spray Booth slab and underlying soils
		179	Plant Sanitary Sewer System
		192	C-710 Acid Interceptor Pit slab and underlying soils
		198	C-410-D Area Soil Contamination slab and underlying soils
		209	C-720 Compressor Shop Pit Sump slab and underlying soils
		211 B	C-720 TCE Spill Site Southeast
		218	OS-07 slab and underlying soils
		220	OS-09 slab and underlying soils
		223	OS-12 slab and underlying soils
		226	OS-15
		463	C-746-A East End Smelter slab and underlying soils
		464	C-746-A West End Smelter building slab and underlying soils
		469	C-745-J Yard
		470	C-746-V Yard
		474	West of Vortec Site
		477	C-340 Metals Plant building slab and underlying soils
		478	C-410/420 Feed Plant building slab and underlying soils
		482	C-415 Feed Plant Storage Building slab and underlying soils
		483	Nitrogen Generating Facilities slab and underlying soils

¹⁶ SWMU 137 was evaluated as part of the American Recovery and Reinvestment Act and the Soils OU. SWMU 137 will be addressed as part of Soils and Slabs OU.

Onemahla Unit	Subprotost	1	D SLABS (CONTINUED)
Operable Unit	Subproject	<b>SWMU No.</b> 498	Description C-410/420 Sump at Column D & E-1&2 slab and underlying
		498	soils
		499	C-410/420 Sump at Column H-9&10 slab and underlying soils
		500	C-410/420 Sump at Column H-9&10 stab and underlying soils C-410/420 Sump at Column U-10&11 slab and underlying soil
		501	C-410/420 UF ₆ Scale Pit Sumps A&B slab and underlying soils
		502	C-410/420 UP ₆ Scale Fit Sumps A&B stab and underlying soils
		503	C-410/420 Sump at Column G-1 slab and underlying soils
		504	
		505	C-410/420 Sump at Column L-10 slab and underlying soils C-410/420 Sump at Column A-3N slab and underlying soils
		506	
		507	C-410/420 Sump at Column Wa-9 slab and underlying soils
		508	C-410/420 Condensate Tank Pit slab and underlying soils
			C-410/420 Settling Basin slab and underlying soils
		509	C-410/420 Drain pit slab and underlying soils
Soils and Slabs		510 511	C-410/420 Sump at Column P&Q-2 slab and underlying soils
OU		512	C-410/420 Sump at Column Q&R-2 slab and underlying soils
(Continued)			C-410/420 Sump at Column R-2 slab and underlying soils
(Continued)		513	C-411 Cell Maintenance Room Sump slab and underlying soils
		522	C-340 Work Pit at Ground Floor Level (B-7–B-9) slab and
		522	underlying soils
		523	C-340 Metals Plant Pit at Ground Floor (F-6 to F-11) slab and
		524	underlying soils C-340 Pickling System Sump (B-10 to B-11) slab and
		524	underlying soils
		529	C-340 Powder Plant Sump at Ground Floor Level slab and
		529	underlying soils
		571	C-602 Coal Storage Yard
		572	C-360 Toll Transfer and Sampling Building Slab and
		572	Underlying Soils
		573	C-750 Garage Slab and Underlying Soils and Associated
		575	Outside Areas
		574	C-709-A Acid Neutralization Vault
I	DEC		1
	DEC		ION AND DECOMMISSIONING
			SWMUs/AOCs or facilities may include multiple smaller ore detailed listing of facilities is included in the following table
			led Facility D&D OU Facilities List."
			ties that have been identified as requiring a CERCLA NTCRA.
		33*	C-728 Motor Cleaning Facility
		38*	C-615 Sewage Treatment Plant
		42*	C-616 Chromate Reduction Facility
	Remaining	70*	C-333-A Vaporizer
Facility D&D OU	D&D	70	C-337-A Vaporizer
	DaD	82*	C-531 Switchyard
		83*	C-533 Switchyard
		84*	C-535 Switchyard
		85*	C-537 Switchyard
		172*	C-726 Sandblasting Facility
		482*	C-415 Feed Plant Storage Building
		572*	C-360 Toll Transfer and Sampling Building

DECONTAMINATION AND DECOMMISSIONING (CONTINUED)				
Facility D&D OU (Continued)Remaining D&D (Continued)Other Buildings (non-SWMUs)		Buildings	See Table "Detailed Facility D&D OU Facilities List." Process Building tie-lines and bridges will be included with the appropriate process building.	
		DUF6 FOOTPR	INT UNDERLYING SOILS	
$\begin{array}{c c} & 164 \\ \hline & 183 \\ OU \\ \end{array}$		183	KPDES Outfall Ditch 017 Flume—Soil Backfill McGraw UST McGraw Construction Facilities (South Side Cylinder Yard Area, East of Hobbs Road)	
	FINA	L COMPREHE	ENSIVE SITE OPERABLE UNIT	
	SWMU No.		Description	
	8		C-746-K Inactive Sanitary Landfill	
CSOU ^{17,18,19}			NSDD (Inside)	
-	91		UF ₆ Cylinder Drop Test Area	
	100		Fire Training Area	
		I	PERMITTED	
	SWN	IU No.	Description	
		3	C-404 Low-Level Radioactive Waste Burial Ground ²⁰	
		9	C-746-S Residential Landfill	
		10	C-746-T Inert Landfill	
Permitted		14	C-733 Hazardous Waste Storage Area	
	40	5 A	C-746-Q Hazardous and Low-Level Mixed Waste Storage	
		0.7	Facility ²¹	
	207		C-752-A ER Waste Storage Bldg.	
	2	08	C-746-U Solid Waste Contained Landfill	

¹⁷ The FFA, as currently written, contemplates multiple CSOUs, consisting of those associated with integrator units (i.e., groundwater, surface water), and a final CSOU completed after issuance of all final RODs for the site. The FFA parties acknowledge that the scope description is intended to reflect a single CSOU to address all media, and a future FFA modification will be conducted to resolve any inconsistencies between the FFA and Site Management Plan strategy.

¹⁸ Historically, once an action has been completed for a particular SWMU whereby no additional active response actions are expected, such SWMUs have been placed in the CSOU for further evaluation; however, the FFA parties recognized the need to reach consensus on the criteria for assigning units to the CSOU. As a result, placement of SWMUs 8, 59, 91, and 100 in the CSOU is provisional pending the FFA parties reaching consensus on such criteria.

¹⁹ The scope of the GAs is sequenced to occur prior to the CSOU, and any actions taken under the GAs will be considered as part of the final CSOU.

²⁰ SWMU 3 was issued only a post-closure permit, was not permitted for construction and operation, and was not an engineered hazardous waste landfill.

²¹ The C-746-Q Facility also includes C-746-Q1.

	NO FURTHER ACTION ²²				
SWMU No.	Description	NFA Approval By			
12	C-747-A UF ₄ Drum Yard	FFA Managers Agreement—11/17/2011;			
		FFA Managers Meeting, 4/12/2012 (Based			
		on information presented at these meetings			
		and on verbal agreement, KY agreed with			
		DOE's assessment that SWMU 12 should			
		be granted NFA status in a letter dated			
		4/24/2012.)			
24	C-750-D UST	KDWM (UST Branch) 11/23/1999			
25	C-750 1,000-gal Waste Oil Tank (UST)	EPA HSWA Class 1 Permit Mod			
		3/17/1993—Regulated by RCRA Permit;			
		KDWM (UST Branch) 6/20/1994			
29	C-746-B TRU Storage Area	EPA HSWA Class 1 Permit Mod 3/17/1993			
34	C-746-M PCB Waste Storage Area	EPA HSWA Class 1 Permit Mod 3/17/1993			
35	C-337 PCB Waste Storage Area	EPA HSWA Class 1 Permit Mod 3/17/1993			
36	C-337 PCB Waste Staging Area	EPA HSWA Class 1 Permit Mod 3/17/1993			
37	C-333 PCB Waste Staging Area	EPA HSWA Class 1 Permit Mod 3/17/1993			
39	C-746-B PCB Waste Storage Area	EPA HSWA Class 1 Permit Mod 3/17/1993			
43	C-746-B Waste Chemical Storage Area	EPA HSWA Class 1 Permit Mod			
		3/17/1993; Closed after 1993			
45	C-746-R Waste Solvent Storage Area	EPA HSWA Class 1 Permit Mod			
		3/17/1993; Closed after 1993			
46	C-409 Hazardous Waste Pilot Plant ²³	EPA HSWA Class 1 Permit Mod			
		3/17/1993—Regulated by RCRA Permit;			
		KDWM (Mod #13) 9/26/1997			
48	Gold Dissolver Storage Tank (DMSA C400-03)	EPA HSWA Class 1 Permit Mod			
		3/17/1993; KDWM 7/8/2010			
49	C-400-B Waste Solution Storage Tank	EPA HSWA Class 1 Permit Mod			
		3/17/1993—Regulated by RCRA Permit;			
		KDWM 9/26/1997			
50	C-400-C Nickel Stripper Evaporation Tank	EPA HSWA Class 1 Permit Mod			
		3/17/1993—Regulated by RCRA Permit;			
		KDWM (Mod #13) 9/26/1997			
51	C-400-D Lime Precipitation Tank	EPA HSWA Class 1 Permit Mod			
		3/17/1993—Regulated by RCRA Permit;			
		KDWM (ROC) 8/8/1994			
52	C-400 Waste Decontamination Solution Storage Tanks	EPA HSWA Class 1 Permit Mod 3/17/1993			
53	C-400 NaOH Precipitation Unit	EPA HSWA Class 1 Permit Mod 3/17/1993			
54	C-400 Degreaser Solvent Recovery Unit	EPA HSWA Class 1 Permit Mod			
		3/17/1993; KDWM 7/8/2010			
72	C-200 Underground Gasoline Tanks	EPA HSWA Class 1 Permit Mod			
		3/17/1993; KDWM (UST C-200A; UST			
		Branch) 11/23/1999			

²² The FFA Parties agree that KDWM will serve as the sole agency for the review and comment on all SWMU assessment reports. The FFA Parties agree that, as a standard practice for waste management units (e.g., TSDs, SWMUs, and AOCs), KDWM's determination for NFA under both the RCRA permit (i.e., Kentucky Hazardous Waste Facility Permit, EPA HSWA Permit) and the FFA are accepted by all parties.
²³ Radiological contamination associated with the sump in this unit will be addressed under the D&D program for the

²³ Radiological contamination associated with the sump in this unit will be addressed under the D&D program for the C-409 Stabilization Building.

NO FURTHER ACTION (CONTINUED)           SWMU No.         Description         NFA Approval By					
73	C-710 Underground Gasoline Tanks	EPA HSWA Class 1 Permit Mod			
15	C-/10 Onderground Gasonine Tanks	3/17/1993; KDWM (UST C-200A;			
		UST C-710; UST Branch) 2/19/2002			
90	C-728 Petroleum Naphtha Pipe (formerly identified as the C-720	KDWM 1/14/2015			
90	Petroleum Naphtha Pipe or C-720 Underground Petroleum	KD W W 17174/2015			
0.4	Naphtha Pipe in historical documents)	KDWA Comentary I Dura al. 1/15/2020			
94	KOW Trickling Filter and Leach Field	KDWM Superfund Branch 1/15/2020			
96	C-333 Cooling Tower Scrap Wood Pile	EPA HSWA Class 1 Permit Mod 3/17/1993			
101	C-340 Hydraulic System	EPA and KDWM 4/2/2015			
102 A	Plant Storm Sewer-between the south side of the C-400 Building	EPA and KY via SW Plume ROD			
	and Outfall 008	3/16/2012; KDWM 1/14/2015			
103	Concrete Rubble Pile (1)	EPA and KY via WAG 17 ROD			
		9/29/1997			
104	Concrete Rubble Pile (2)	EPA and KY via WAG 17 ROD			
~ -		9/29/1997			
110	Concrete Rubble Pile (8)	EPA and KY via WAG 17 ROD			
110		9/29/1997			
111	Concrete Rubble Pile (9)	EPA and KY via WAG 17 ROD			
111		9/29/1997			
112	Concrete Rubble Pile (10)	EPA and KY via WAG 17 ROD			
112		9/29/1997			
114	Concrete Rubble Pile (12)	EPA and KY via WAG 17 ROD			
114		9/29/1997			
115	Concrete Rubble Pile (13)	EPA and KY via WAG 17 ROD			
115	Concrete Rubble Pile (13)				
116	$C_{1}$ (14)	9/29/1997			
116	Concrete Rubble Pile (14)	EPA and KY via WAG 17 ROD			
115	(	9/29/1997			
117	Concrete Rubble Pile (15)	EPA and KY via WAG 17 ROD			
		9/29/1997			
118	Concrete Rubble Pile (16)	EPA and KY via WAG 17 ROD			
		9/29/1997			
119	Concrete Rubble Pile (17)	EPA and KY via WAG 17 ROD			
		9/29/1997			
120	Concrete Rubble Pile (18)	EPA and KY via WAG 17 ROD			
		9/29/1997			
121	Concrete Rubble Pile (19)	EPA and KY via WAG 17 ROD			
		9/29/1997			
122	Concrete Rubble Pile (20)	WAG 17 RI Work Plan			
123	Concrete Rubble Pile (21)	EPA and KY via WAG 17 ROD			
		9/29/1997			
124	Concrete Rubble Pile (22)	EPA and KY via WAG 17 ROD			
		9/29/1997			
125	Concrete Rubble Pile (23)	EPA and KY via WAG 17 ROD			
		9/29/1997			
126	Concrete Rubble Pile (24)	EPA and KY via WAG 17 ROD			
120		9/29/1997			
127	Concrete Rubble Pile (25)	EPA and KY via WAG 17 ROD			
1 4 /		9/29/1997			
120	Concrete Dubble Dile (26)				
128	Concrete Rubble Pile (26)	EPA and KY via WAG 17 ROD 9/29/1997			

4-11

NO FURTHER ACTION (CONTINUED)				
SWMU No.		NFA Approval By		
130	C-611 550-gal Gasoline UST	KDWM 12/6/1996		
		EPA and KY via WAG 1&7 ROD		
131	C-611 50-gal Gasoline UST	KDWM 12/6/1996		
		EPA and KY via WAG 1&7 ROD		
		8/10/1998		
132	C-611 2,000-gal Oil UST	KDWM 12/6/1996		
		EPA and KY via WAG 1&7 ROD		
		8/10/1998		
133	C-611 (unknown size) Grouted UST	KDWM 12/6/1996		
		EPA and KY via WAG 1&7 ROD		
		8/10/1998		
134	C-611 1,000-gal Diesel/Gasoline Tank	KDWM 12/6/1996		
		EPA and KY via WAG 1&7 ROD		
		8/10/1998		
136	C-740 TCE Spill Site	EPA and KY via WAG 1&7 ROD		
		8/10/1998		
139	C-746-A1 UST	KDWM 12/9/2005		
140	C-746-A2 UST	KDWM 12/19/1996		
141	C-720 Inactive TCE Degreaser	KDWM 8/11/1992; EPA HSWA Class		
		Permit Mod 3/17/1993—Regulated by		
		RCRA Permit		
142	C-750-A 10,000-gal Gasoline Tank (UST)	EPA HSWA Class 1 Permit Mod		
		3/17/1993—Regulated by RCRA Permi		
		KDWM 3/25/1999		
143	C-750-B 10,000-gal Diesel Tank (UST)	EPA HSWA Class 1 Permit Mod		
		3/17/1993; KDWM 3/25/1999		
144	C-746-A Hazardous and Mixed Waste Storage Facility	EPA HSWA Class 1 Permit Mod		
		3/17/1993—Regulated by RCRA Permi		
		KDWM 10/10/2011		
146	Concrete Rubble Pile (40)	EPA and KY via WAG 17 ROD		
		9/29/1997		
147	Concrete Rubble Pile (41)	EPA and KY via WAG 17 ROD		
		9/29/1997		
148	Concrete Rubble Pile (42)	EPA and KY via WAG 17 ROD		
110		9/29/1997		
149	Concrete Rubble Pile (43)	EPA and KY via WAG 17 ROD		
1.7		9/29/1997		
150	Concrete Rubble Pile (44)	EPA and KY via WAG 17 ROD		
100		9/29/1997		
151	Concrete Rubble Pile (45)	EPA and KY via WAG 17 ROD		
151		9/29/1997		
152	Concrete Rubble Pile (46)	EPA and KY via WAG 17 ROD		
152		9/29/1997		
157	KOW Toluene Spill Area	KDWM Superfund Branch 1/15/2020		
173	C-746-A Trash-Sorting Facility	EPA HSWA Class 1 Permit Mod		
1/3	C-740-A Trash-Solung Facility	3/17/1993; KDWM 12/18/1992		
174	C 745 V Love Lovel Store on Ameri			
174	C-745-K Low-Level Storage Area	EPA HSWA Class 1 Permit Mod		
102		3/17/1993; KDWM 2/22/1993		
182	Western Portion of Yellow Water Line	KDWM Superfund Branch 1/15/2020		

NO FURTHER ACTION (CONTINUED)           SWMU No.         Description         NFA Approval I				
184	Concrete Rubble Pile (29)	EPA and KY via WAG 17 ROD		
104		9/29/1997		
186	C-751 Fuel Facility	KDWM 10/20/1993		
187	C-611 Septic System	KDWM 10/20/1993		
188	C-633 Septic System	KDWM 10/20/1993		
189	C-637 Septic System	KDWM 10/20/1993		
190	C-337A Sewage Treatment Aeration Tank	KDWM 10/20/1993		
190	C-333-A Sewage Treatment Aeration Tank	KDWM 10/20/1993		
191	Concrete Rubble Pile (30)	EPA and KY via WAG 17 ROD		
19/	Colletete Rubble File (30)	9/29/1997		
206	C-753-A Toxic Substances Control Act Waste Storage Bldg.	KDWM 3/7/1997		
208	C-746-U Solid Waste Contained Landfill	KDWM 3/7/1997 KDWM 3/7/1997		
360	C-535	KDWM 1/4/2006		
361	C-727–90 day	KDWM 8/28/2007		
362	G-310-04	KDWM 8/28/2007		
363	G-331-03	KDWM 6/29/2004		
364	G-331-05	KDWM 6/29/2004		
365	G-333-02	KDWM 5/12/2003		
366	G-333-03	KDWM 5/12/2003		
367	G-333-04	KDWM 5/12/2003		
368	G-333-08	KDWM 6/29/2004		
369	G-333-10	KDWM 5/12/2003		
370	G-333-20	KDWM 5/12/2003		
371	G-335-01	KDWM 1/4/2006		
372	G-337-02	KDWM 9/11/2003		
373	G-337-03	KDWM 9/11/2003		
374	G-337-13	KDWM 9/11/2003		
375	G-337-14	KDWM 9/11/2003		
376	G-337-15	KDWM 9/11/2003		
377	G-337-22	KDWM 1/4/2006		
378	G-340-01	EPA and KDWM 4/02/2015		
378	G-340-01 G-340-03			
		EPA and KDWM 4/02/2015		
380	G-340-04	EPA and KDWM 4/02/2015		
381	G-340-05	EPA and KDWM 4/02/2015		
382	G-340-06	KDWM 8/28/2007		
383	G-400-01	KDWM 5/12/2003		
384	G-400-02	KDWM 5/12/2003		
385	G-409-25	KDWM 5/12/2003		
386	G-410-01	KDWM 8/28/2007		
387	C-416-01	KDWM 8/28/2007		
388	C-416 Decontamination Pad	KDWM 4/12/2004		
389	G-533-01	KDWM 6/29/2004		
390	G-535-02	KDWM 6/29/2004		
391	G-537-01	KDWM 1/4/2006		
392	G-540-A-01	KDWM 2/14/2006		
393	G-540-A-1-02	KDWM 2/14/2006		
394	G-541-A-01	KDWM 4/12/2004		
395	G-600-01	KDWM 3/8/2007		
396	G-611-U-01	KDWM 3/8/2007		
397	G-612-01	KDWM 3/8/2007		
398	G-612-02	KDWM 3/8/2007		

NO FURTHER ACTION (CONTINUED)				
SWMU No.	Description	NFA Approval By		
399	G-612-A-01	KDWM 3/8/2007		
400	G-635-01	KDWM 3/8/2007		
401	G-710	KDWM 1/4/2006		
402	G-710-04	KDWM 9/11/2003		
403	G-710-20	KDWM 1/4/2006		
404	G-710-24	KDWM 9/11/2003		
405	G-720-22	KDWM 2/14/2006		
406	G-743-T-17-01	KDWM 6/29/2004		
407	G-743-T-17-02	KDWM 3/8/2007		
408	G-745-B-01	KDWM 3/8/2007		
409	G-745-T-01	KDWM 2/14/2006		
410	G-746-G-01	KDWM 6/29/2004		
411	G-746-G-1-01	KDWM 3/8/2007		
412	G-746-G-2-01	KDWM 11/1/2004		
413	G-746-G-3-01	KDWM 11/1/2004		
414	G-746-F-01	KDWM 1/4/2006		
415	G-746-S-01	KDWM 8/28/2007		
416	G-746-X-01 (PCBs)	KDWM 3/8/2007		
417	G-746-X-01 (Asbestos)	KDWM 3/8/2007		
418	G-748-B-01	KDWM 6/29/2004		
419	C-752-C Decontamination Facility	KDWM 8/28/2007; KDWM 4/22/2022		
420	G-752-C-02	KDWM 3/8/2007		
421	G-754-01	KDWM 1/4/2006		
422	G-755-A-01, G-755-A-02, and G-755-A-03	KDWM 1/28/2004		
423	G-755-C-01	KDWM 1/28/2004		
424	G-755-T-07-01	KDWM 1/28/2004		
425	G-755-T-08	KDWM 1/28/2004		
426	G-755-T-2-3-01	KDWM 1/28/2004		
427	G-755-T-3-1-01	KDWM 1/28/2004		
428	G-755-T-3-2-01	KDWM 1/28/2004		
429	S-310-04	KDWM 8/28/2007		
430	S-331-02	KDWM 1/4/2006		
431	S-333-12	KDWM 5/12/2003		
432	S-335-09	KDWM 1/4/2006		
433	S-337-11	KDWM 9/11/2003		
434	S-340-01	EPA and KY 4/2/2015		
435	S-409-100	KDWM 5/12/2003		
436	S-409-20	KDWM 5/12/2003		
437	S-409-40	KDWM 5/12/2003		
438	S-409-60	KDWM 5/12/2003		
439	S-409-80	KDWM 5/12/2003		
440	S-410-05	KDWM 8/28/2007		
441	S-540-A-2-01	KDWM 8/28/2007 KDWM 6/29/2004		
442	S-612-01	KDWM 2/14/2006		
442	S-709-01	KDWM 6/29/2004		
	S-709-01 S-709-02			
444		KDWM 6/29/2004		
445	S-710-05	KDWM 2/14/2006		
446	S-710-06	KDWM 9/11/2003		
447	S-710-09	KDWM 1/4/2006		
448	S-710-16	KDWM 9/11/2003		
449	S-710-18	KDWM 9/11/2003		
450	S-710-32	KDWM 1/4/2006		

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NO FURTHER ACTION (CONTINUED)           SWMU No.         Description         NFA Approval By				
451	Description S-710-41	NFA Approval By KDWM 9/11/2003		
451	S-710-41	KDWM 1/4/2006		
452	S-710-44	KDWM 9/11/2003		
455	S-710-40 S-743-T-17-01			
454		KDWM 2/14/2006		
455	S-755-T-16-01 S-755-T-16-02	KDWM 1/28/2004		
		KDWM 1/28/2004		
<u>457</u> 458	S-755-T-16-03	KDWM 1/28/2004		
	S-755-T-2-3-01	KDWM 1/28/2004		
459	S-755-T-3-1-01	KDWM 1/28/2004		
460	S-755-T-3-2-01	KDWM 1/28/2004		
461	S-755-T-3-2-02	KDWM 1/28/2004		
462	S-755-T-3-2-03	KDWM 1/28/2004		
465	Yard Rubble Pile and Crushate Storage Area (G-Yard)	KDWM 10/13/2009		
466	South of Dyke Road, Pond Area	KDWM 8/17/2009		
467	Concrete Cylinder Holders Storage Area on Western Kentucky Wildlife Management Area	KDWM 8/17/2009		
468	Area Northwest of Outfall 015	KDWM 2/14/2006		
471	Outside C-746-B South Storage Area	KDWM 8/17/2009		
473	C-746-B Pad, West	KDWM 8/28/2007		
475	C-745-G5-01 (Paint Enclosure)	KDWM 2/14/2006		
476	Concrete Crusher	KDWM 2/14/2006		
479	C-204 Disintegrator Building	KDWM 6/3/2002		
481	C-410-A Hydrogen Holder	KDWM 4/2/2002		
484	C-611-M Storage Tank	KDWM 8/30/2002		
485	C-611-N Sanitary Water Storage	KDWM 2/18/2002		
490	McGraw Fuel Facility Waste Oil Storage Tank	KDWM 12/21/2001		
491	Mercury Spill at the C-611 Water Treatment Plant Vault	KDWM 3/22/2004		
494	Ash Receiver Area in C-410/420	KDWM 6/3/2016; EPA 6/9/2016		
495	C-410-I Ash Receiver Shed	KDWM 6/3/2016; EPA 6/9/2016		
496	C-410 Fluorine/Hydrogen Filters (Northeast Mezzanine)	KDWM 6/3/2016; EPA 6/9/2016		
497	$C-410/420 F_2$ Cell Neutralization Room Vats	KDWM 6/3/2016; EPA 6/9/2016		
514	C-340 Magnesium Fluoride Reject Silo	EPA and KY 4/2/2015		
515	C-340 "Dirty" Dust Collection System	EPA and KY 4/2/2015		
516	C-340 Derby Preparation Area Sludge Collection System	EPA and KY 4/2/2015		
519	C-410 Sulfuric Acid Tank (C-634-B)	KDWM 1/10/2003		
521	C-340 Saw System Degreaser	EPA and KY 4/2/2015		
525	Concrete Water Tower Supports (KOW)	KDWM 8/28/2007		
525	C-410 GSA/SAA at Column J-6	KDWM 8/28/2007		
528	GSA/SAA at the Northwest corner of C-745-G3 Paint Enclosure	KDWM 2/14/2006		
530	Soil and Debris Storage Area by C-745-T Yard	KDWM 3/8/2007		
532	Photographic Solution Treatment Area in the C-102 Building	KDWM 5/21/2003		
534	UST #18, within SWMU 193	KDWM (UST Branch) 12/4/2002		
535	S-755-T08-01 (Satellite Accumulation Area at C-755, Trailer 8)	KDWM (051 Branch) 12/4/2002 KDWM 2/14/2006		
	Concrete Truck Washout Area			
536		KDWM 6/27/2002		
537	S-400-001 (SAA Located Outside at the Southeast Corner of the C 400 Dividing)	KDWM 2/14/2006		
520	C-400 Building)	KDWM 2/14/2007		
538	S-MST-01-01 & S-MST-01-02 (Mobile Trailer 01)	KDWM 2/14/2006		
539	S-MST-02-01 & S-MST-02-02 (Mobile Trailer 02)	KDWM 2/14/2006		
540	S-MST-03-01 & S-MST-03-02 (Mobile Trailer 03)	KDWM 2/14/2006		
542 A	G-746-B-01; S-746-B-01; S-746-B-02 (GSA/SAAs located outside C-746-A)	KDWM 1/28/2004		

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	NO FURTHER ACTION (CONTINUED)				
SWMU No.	Description	NFA Approval By			
542 B	G-746-A-01; S-746-A-01; S-746-A-02 (GSA/SAAs located	KDWM 1/28/2004			
	outside C-746-A)				
543	T-746-S-01 (90-Day Storage Area)	KDWM 1/28/2004			
544	T-752-C-01 (90-Day Storage Area)	KDWM 1/28/2004			
545	C-755-T-22-01 and G-755-T-22	KDWM 1/28/2004			
546	PGDP Post 67 Diesel Fuel Spill Area	KDWM 2/14/2006			
547	PGDP Post 38 Diesel Spill Area	KDWM 2/14/2006			
548	Staging Area for Concrete Piers, Wood and Rubble North Side of C-745-B Cylinder Yard	KDWM 8/28/2007			
551	C-755-GSA-23 Located at C-755 near the East Fence Line	KDWM 8/28/2007			
552	C-760 90-Day Accumulation Area	KDWM 3/8/2007			
566	H-340-01	KDWM 12/02/2010			
568	C-340 ST-90 Boxes	KDWM 12/02/2010			
569	C-743-T-17 Sample Return Refrigerator	KDWM 5/24/2012			
570	Sample Return Sealand	KDWM 5/24/2012			

	PENDING NO FURTHER ACTIO	<b>DN DECISION</b>
SWMU No.	Descripti	ion
	Reserved	
	SWMUS THAT WILL BE INVESTIGATE BY THE U.S. ARMY CORPS OF I	
95	KOW Burn Area	
	IKOW BURN Area	OU = operable unit
	ehensive Site Operable Unit	PCB = polychlorinated biphenyl
	mination and decommissioning	PGDP = Paducah Gaseous Diffusion Plant
EDA - IIS Em	vironmental Protection Agency	RCW = recirculating cooling water

D&D = decontamination and decommissioning	PGDP = Paducah Gaseous Diffusion Plant
EPA = U.S. Environmental Protection Agency	RCW = recirculating cooling water
ER = environmental remediation	RI = remedial investigation
FFA = Federal Facility Agreement	ROD = Record of Decision
GDP = gaseous diffusion plant	SAA = satellite accumulation area
GSA= generator staging area	SAP = Sampling and Analysis Plan
HSWA = Hazardous and Solid Waste Amendments	SAR = SWMU assessment report
HVAC = heating, ventilating, and air-conditioning	SWMU = solid waste management unit
KDWM = Kentucky Division of Waste Management	SWOU = Surface Water Operable Unit
KOW = Kentucky Ordinance Works	TBD = to be determined
KPDES = Kentucky Pollutant Discharge Elimination System	TCE = trichloroethene
KY = Kentucky	TSCA = Toxic Substances Control Act
NFA = no further action	UST = underground storage tank
NSDD = North-South Diversion Ditch	WAG = waste area group
NTCRA = non-time-critical removal action	WKWMA = West Kentucky Wildlife Management Area

²⁴ The Corps of Engineers accepted responsibility for the investigation/remediation of this SWMU in a letter dated March 13, 1996. EPA and Kentucky review/approval of the CERCLA documentation (not yet available) associated with this SWMU has not occurred.

Facility Number	Description	SWMU/AOC Number	Facility Status	Integrated Site Evaluation (SE) Complete	CERCLA NTCRA Required		
Gaseous Diffusion Process Facilities and Process Building Tie Lines and Bridges							
C-310	Purge and Product Building		Deactivating	No	Pending SE		
C-310-A	Product Withdrawal Building		Deactivating	No	Pending SE		
C-315	Surge and Waste Building		Shutdown	No	Pending SE		
C-331	Process Building		Shutdown	No	Pending SE		
C-333	Process Building		Deactivating	No	Pending SE		
C-333-A	Feed Vaporization Facility	70	Deactivating	8/24/1987	Yes		
C-335	Process Building		Deactivating	No	Pending SE		
C-337	Process Building		Deactivating	No	Pending SE		
C-337-A	Feed Vaporization Facility	71	Shutdown	8/24/1987	Yes		
C-310-335 ²⁵	Tie-Line		Deactivating	No	Pending SE		
C-310-331-A	Bridge (Enclosed)		Deactivating	No	Pending SE		
С-310-331-В	Tie-Line		Deactivating	No	Pending SE		
C-315-331	Tie-Line		Deactivating	No	Pending SE		
C-331-333-A	Bridge (Enclosed—300 ft)		Deactivating	No	Pending SE		
С-331-333-В	Tie-Line (East)		Deactivating	No	Pending SE		
C-331-333-C	Tie-Line (West)		Deactivating	No	Pending SE		
C-331-335	Tie-Line		Deactivating	No	Pending SE		
C-335-337-A	Bridge (Enclosed)		Deactivating	No	Pending SE		
С-335-337-В	Tie-Line (North)		Deactivating	No	Pending SE		
С-335-337-С	Tie-Line (South)		Deactivating	No	Pending SE		
	Р	rocess Support I	acilities	•			
C-409	Stabilization Building		Operating	No	Pending SE		
C-415	Feed Plant Storage	482	Operating	7/18/2001; under development	Re-evaluating SE		
C-600	Steam Plant		Standby	No	Pending SE		
		Switchyard	ls				
C-531-1	Switch House	82	Shutdown	8/24/1987	Yes		
C-531-3A	Fire Valve House No. 1	82	Shutdown	8/24/1987	Yes		
C-531-3B	Fire Valve House No. 2	82	Shutdown	8/24/1987	Yes		
C-532	Relay House ²⁶	82	Standby	8/24/1987	Yes		
C-533-1	Switch House ²⁶	83	Standby	8/24/1987	Yes		
C-533-3A	Fire Valve House No. 1	83	Shutdown	8/24/1987	Yes		
C-533-3B	Fire Valve House No. 2	83	Shutdown	8/24/1987	Yes		
C-533-3C	Fire Valve House No. 3	83	Shutdown	8/24/1987	Yes		
C-533-3D	Fire Valve House No. 4	83	Shutdown	8/24/1987	Yes		
C-535-1	Switch House	84	Deactivating	8/24/1987	Yes		
C-535-3A	Fire Valve House No. 1	84	Shutdown	8/24/1987	Yes		
C-535-3B	Fire Valve House No. 2	84	Shutdown	8/24/1987	Yes		
C-535-4	Test Shop (Maintenance Office)	84	Shutdown	8/24/1987	Yes		
C-536	Relay House	84	Shutdown	8/24/1987	Yes		

#### Detailed Facility D&D OU Facilities List

²⁵ The C-310-335 Tie-Line intersects with the C-331-335 Tie-Line and, as a result, the C-310-335 Tie-Line is not listed separately in the facilities information management system.

 $^{^{26}}$  These facilities have "Standby" status designation until the DOE Excess Screening process is complete. Once approval is received, these facilities will receive a status of "Deactivating" or "Shutdown" because the facility no longer will be maintained for future use.

Facility Number	Description	SWMU/AOC Number	Facility Status	Integrated Site Evaluation (SE) Complete	CERCLA NTCRA Required		
Switchyards (Continued)							
C-537-1	Switch House	85	Deactivating	8/24/1987	Yes		
C-537-3A	Fire Valve House No. 1	85	Shutdown	8/24/1987	Yes		
C-537-3B	Fire Valve House No. 2	85	Shutdown	8/24/1987	Yes		
C-537-3C	Fire Valve House No. 3	85	Shutdown	8/24/1987	Yes		
C-537-3D	Fire Valve House No. 4	85	Shutdown	8/24/1987	Yes		
C-537-4	Test Shop	85	Shutdown	8/24/1987	Yes		
C-540-A	Oil Pump House	83	Shutdown	8/24/1987	Yes		
C-541-A	Oil Pump House	84	Shutdown	8/24/1987	Yes		
	-	Cooling Towe	ers ²⁷				
	Phosphate (Former			ilities			
C-616-A	Chemical Feed Building	42	Standby	12/18/1991	Yes		
C-616-B	Clarifier-East	42	Standby	12/18/1991	Yes		
C-616-C	Lift Station	42	Operating	12/18/1991	Yes		
C-616-D	Sludge Vault and Valve Pit	42	Operating	12/18/1991	Yes		
C-616-H1	Ferrous Sulfate Storage Tank (East)	42	Standby	12/18/1991	Yes		
C-616-H2	Ferrous Sulfate Storage Tank (West)	42	Standby	12/18/1991	Yes		
C-616-J	Reduction Tank (East)	42	Standby	12/18/1991	Yes		
C-616-K	Service Building	42	Standby	12/18/1991	Yes		
C-616-L		42	Standby	12/18/1991; under	Re-evaluating		
	Effluent Control Vault		•	development	SE		
C-616-M	Clarifier (West)	42	Standby	12/18/1991	Yes		
C-616-N	Reduction Tank (West)	42	Standby	12/18/1991	Yes		
C-616-P	Sludge Vault and Valve Pit	42	Operating	12/18/1991	Yes		
	Sewage System an	d Water Treatr	nent Ancillary Facil	lities			
C-611-A	Building and Shop Storage		Operating	12/1/2021	No ²⁸		
C-611-A1	Activated Carbon Storage Facility		Operating	12/1/2021	No		
C-611-B	Head House		Operating	12/1/2021	No ²⁸		
C-611-B1	Polymer Feed System Enclosure		Operating	12/1/2021	No ²⁸		
C-611-C	Flocculator Basin		Operating	12/1/2021	No ²⁸		
C-611-F1	Secondary Coagulation Basin		Operating	12/1/2021	No ²⁸		
C-611-F2	Chemical Feed Building for C-611-F1		Operating	12/1/2021	No ²⁸		
C-611-F3	Feed Facility		Operating	12/1/2021	No ²⁸		
С-611-Н	Filter Building and Pump Station		Operating	12/1/2021	No ²⁸		
C-611-J	Pump House (Settled Water)		Operating	12/1/2021	No ²⁸		
C-611-P	Building–Pump House		Standby	8/26/2021	No		
C-611-S	Storage and Chlorine Facility		Operating	12/1/2021	No ²⁸		

#### Detailed Facility D&D OU Facilities List (Continued)

²⁷ Facilities associated with the cooling towers have undergone consultation. Consultation for the C-631, C-633, C-635, and C-637 pumphouses and cooling towers was completed 1/9/2023, 4/3/2023, 8/29/2022, and 6/22/2023, respectively, and concurrence received 1/24/2023, 4/4/2023, 8/31/2022, 6/22/2023, respectively. The aboveground structures of the facilities associated with the C-631, C-633, C-635, and C-637 pumphouses and cooling towers were agreed to be demolished outside of CERCLA; the concrete pad and/or soils associated with those facilities (SWMUs 86, 87, 88, and 89) will be evaluated as part of the Soils and Slabs OU. The C-631, C-633, C-635, and C-637 facilities were removed from the Facilities D&D OU List and have been listed in Table 3.1.

²⁸ SE requires investigation of slab and underlying soils, prior to AOC/SWMU determination. Timing of the SE will be incorporated into baseline and will be conducted as part of the GA.

	Sewage System and Wate	r Treatmont	Anaillamy Faailitias ((	Continued)			
C-611-T	Booster Pump Station Plant Water ²⁹		Shutdown	8/26/2021	No		
C-611-U	Softening Facility (West)		Operating	12/1/2021	No ³⁰		
C-611-X	Softening Facility (West)		Operating	12/1/2021	No ³⁰		
C-611-X	Flocculator Basin		Operating	12/1/2021	No ³⁰		
C-615-A	Primary Settling Tank/Catch Basin	38	Operating	8/24/1987	Yes		
C-615-B	Final Settling Tank/Catch Basin	38	Operating	8/24/1987	Yes		
С-615-С	Sewage Plant Monitoring Building	38	Operating	8/24/1987	Yes		
		38			Yes		
C-615-D	Digester	38	Operating	8/24/1987			
C-615-E	Trickling Filter	38	Operating	8/24/1987	Yes		
C-615-F	Dry Bed for Trickling Filter		Operating	8/24/1987	Yes		
<b>Process Laboratory and Maintenance Facilities</b>							
C-709	Plant Laboratory Annex		Operating	No	Pending SE		
C-710	Technical Services Building/Lab		Operating	No	Pending SE		
C-720	Maintenance and Storage Building		Operating	No	Pending SE		
C-720-A	Compressor Shop Addition		Standby	No	Pending SE		
С-720-В	Machine Shop Addition		Standby	No	Pending SE		
С-720-С	Converter Shop Addition		Operating	No	Pending SE		
C-720-C1	Paint Shop		Operating	No	Pending SE		
С-720-Е	Change House Addition		Operating	No	Pending SE		
С-720-К	Instrument Shop Addition		Operating	No	Pending SE		
C-724-A	Carpenter Shop Annex		Operating	No	Pending SE		
C-724-B	Carpenter Shop		Operating	3/18/2021	No		
C-724-C	Paint Shop	178	Operating	1/25/1993; 3/18/2021	No		
C-725	Paint Shop		Operating	7/13/2021	No ³⁰		
C-726	Sandblast Building	172	Shutdown	10/29/1992; under	Re-evaluating		
	C C			development	SE		
C-728	Motor Cleaning Facility	33	Standby	6/2/2015; under	Re-evaluating		
				development	SE		
	Gaseous Di	ffusion Plant S	Support Facilities				
C-350	Drying Agent Storage Building		Deactivating	2/18/2021	No		
C-360	Toll Transfer and Sampling Building	572	Shutdown	6/2/2021	Yes		
C-360-A	Toll Transfer and Sampling Building		Operating	No	Pending SE		
	Annex				0		
C-606	Coal Crusher Building		Shutdown	3/18/2021	Yes		
C-620	Air Compressor Room		Standby	No	Pending SE		
C-729	Acetylene Building		Shutdown	2/18/2021	No		
C-744	Material Handling Building		Operating	2/18/2021	No		
C-750	Garage	573	Operating	8/4/2021	No		
	. 2						

#### Detailed Facility D&D OU Facilities List (Continued)

AOC = area of concern

D&D = Decontamination and Decommissioning

CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act

NTCRA = non-time-critical removal action

SE = site evaluation

SWMU = solid waste management unit

Operating-Facility is currently in use supporting U.S. Department of Energy mission activities.

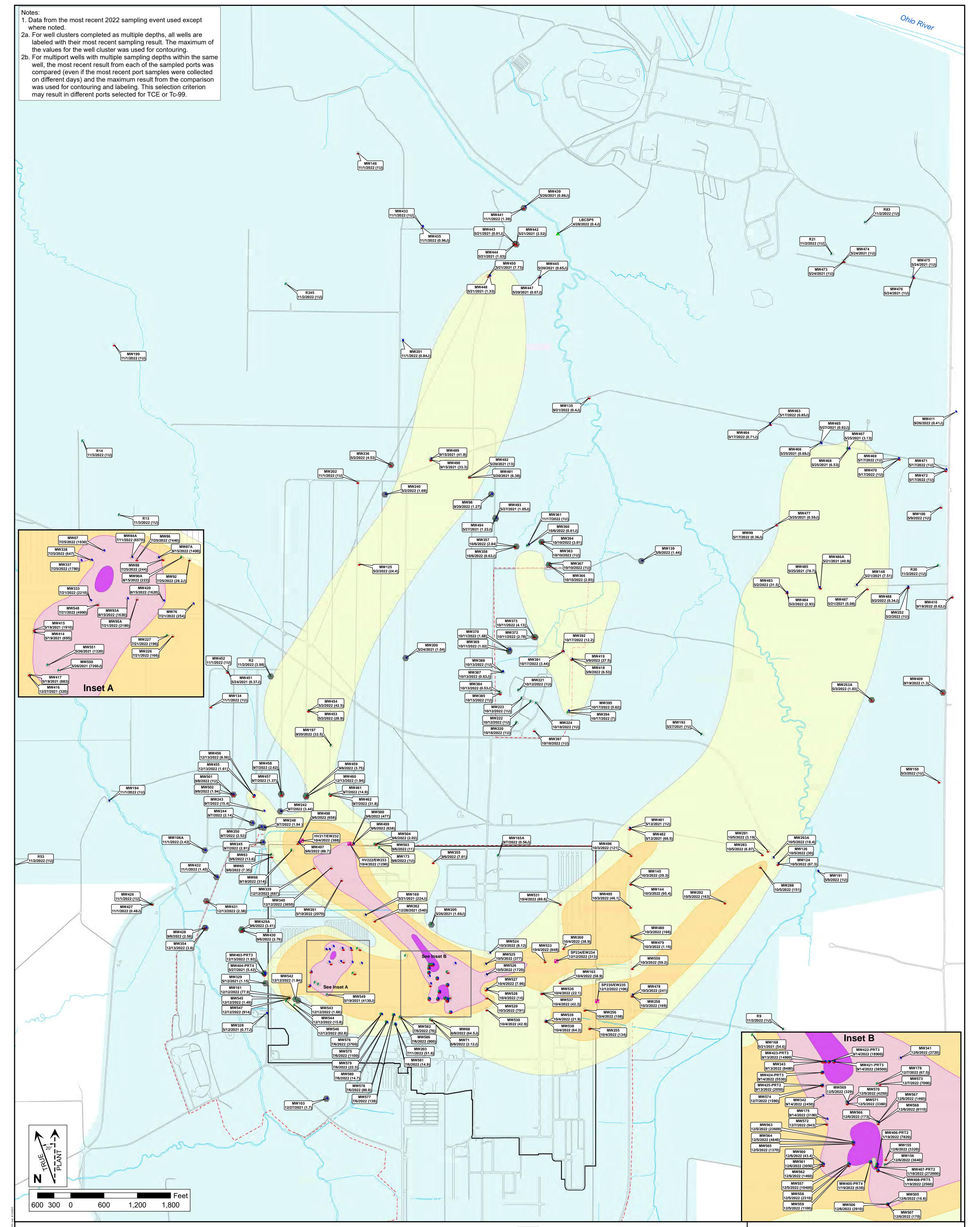
Standby-Facility is currently not in use but may be utilized to support future U.S. Department of Energy mission activities.

Shutdown-Facility is not being maintained for future use and is awaiting disposition (excess property determination is pending).

Deactivating-Interim process where stabilization and deactivation activities have been initiated and are ongoing.

²⁹ This facility will no longer be used for pumping water; however, it may be used by Fire Services in an emergency situation to fill the C-631 Basin.

³⁰ SE requires investigation of slab and underlying soils, prior to AOC/SWMU determination. Timing of the SE will be incorporated into baseline and will be conducted as part of the GA.



2022 TCE Plume Concentration Fields 5 - 100 μg/L 100 - 1,000 µg/L 1,000 - 10,000 µg/L 10,000 - 100,000 µg/L ≥ 100,000 µg/L

RGA Well outside Plume Concentration Field showing TCE > 1  $\mu$ g/L

Surface Water Course Centerline

— DOE Property Boundary

Multizone RGA Well Roadways ---- 229 Boundary

Note: Contours defining >10,000 μg/L used historical records in addition to recent groundwater monitoring results.

MAP SOURCE INFORMATION

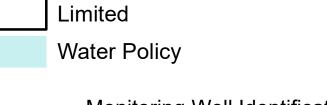
Map Generation Date and Location - 4/18/2023 Geosyntec\\fedprojects-01\paducah\$\Knoxville\GW Strategy\2022 PLUME MAP UPDATE\05 GIS\MXD\Fig_C01_2022PlumesTCER1.mxd Monitoring and Extraction Well, RGA Well outside Plume Concentration Field showing TCE > 1 µg/L, and Seep Monitoring Layer Location: Geosyntec\fedprojects-01\paducah\$\Knoxville\GW Strategy\2022 PLUME MAP UPDATE\05 GIS\SHP\2022_TCE_10000.shp\2022 PLUME MAP UPDATE\05 GIS\SHP\2022_TCE_10000_10000.shp\2022_TCE_1000_10000.shp\2022_TCE_100_1000.shp\2022_TCE_100_1000.shp\2022_TCE_100_1000.shp\2022_TCE_5_100.shp DOE Property Boundary and Surface Water Course Centerline provided by FRNP on 2/4/2021 and 11/8/2022, respectively. Roadways, 229 Boundary, and Water Policy Area downloaded from PEGASIS on 3/16/2021. Limited Area shapefile provided by FRNP on 2/4/2021 and external limits confirmed by FRNP on 3/21/2022.

Upper RGA Well

Middle RGA Well

Lower RGA Well

Extraction Well



Monitoring Well Identification Date of Sample and Sample Value (TCE Concentration MW100 · in µg/L) 5/9/2022 (1U) U = Compound analyzed for, but not detected at or below, the lowest concentration reported J = Concentration is estimated

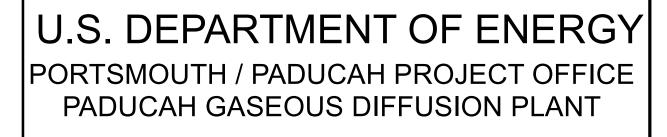




Figure A.3. 2022 TCE Plume—Regional Gravel Aquifer

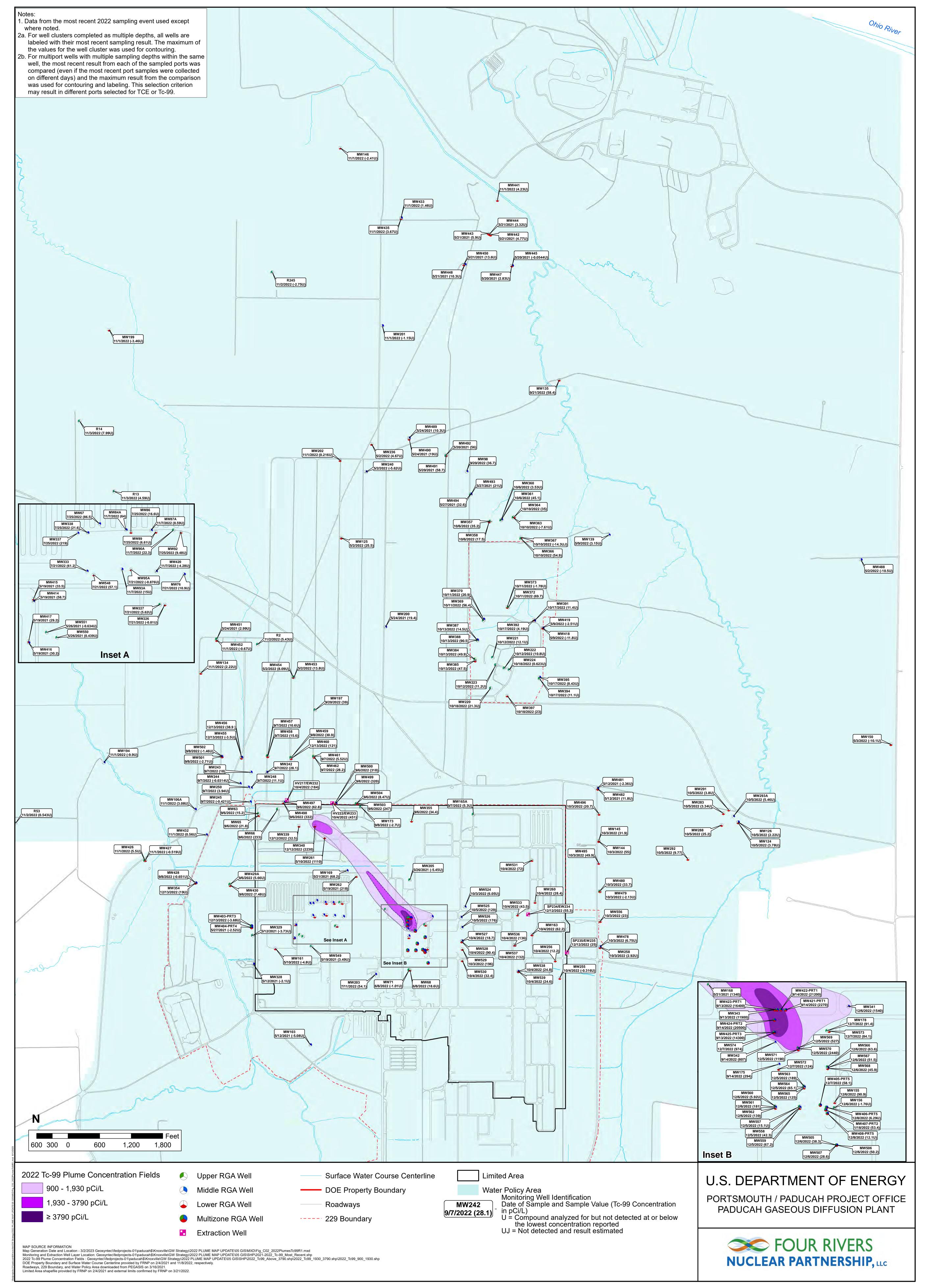


Figure A.4. 2022 Tc-99 Plume—Regional Gravel Aquifer

## **APPENDIX B**

## U.S. DEPARTMENT OF ENERGY CONTRACTOR PLANS, PROGRAMS, AND PROCEDURES

Procedure Number	Procedure Title	Comments
CP2-RA-0016/FR1	Spill Prevention, Control, and Countermeasure Plan for the U.S. Department of Energy Paducah Gaseous	D&R Contractor Program
	Diffusion Plant, McCracken County, Kentucky	
CP2-RA-0014/FR4A	<i>Environmental Compliance and Protection Program</i>	D&R Contractor Program
CI 2-KA-0014/1 K4A	Description at the Paducah Gaseous Diffusion Plant,	Der Contractor Program
	Paducah, Kentucky	
CP2-ES-0005/FR5	Pollution Prevention/Waste Minimization Plan for the	D&R Contractor Program
	Deactivation and Remediation Project, Paducah	8
	Gaseous Diffusion Plant, Paducah, Kentucky	
CP2-HS-2000/FR6B	Worker Safety and Health Program for the Paducah	D&R Contractor Plan
	Gaseous Diffusion Plant, Paducah, Kentucky	
CP2-QA-1000/FR4A	Quality Assurance Program Description for the	D&R Contractor Plan
	Paducah Gaseous Diffusion Plant, Paducah, Kentucky	
CP2-SM-1000/FR7	Activity Level Work Planning and Control Program	D&R Contractor Program
	for the Paducah Gaseous Diffusion Plant, Paducah,	
	Kentucky	
ISSC-PM-PR-003	Work Planning and Control	Infrastructure Contractor
		Procedure
CP2-EN-0201/FR5	Configuration Management Program Description at	D&R Contractor Program
	the Paducah Gaseous Diffusion Plant, Paducah,	
	Kentucky	
CP3-OP-1118/FR3C	Facility Management	D&R Contractor Procedure
CP3-QA-1006/FR3C	Suspect/Counterfeit Items	D&R Contractor Procedure
Environment, Safety, a	nd Health Procedures	
Procedure Number	Procedure Title	Comments
CP3-ES-0003/FR3A	Environmental Incident Reporting	D&R Contractor Procedure
CP2-HS-1000/FR5	Integrated Safety Management System Description for	D&R Contractor Policy
CI 2-115-1000/1 KJ	the Paducah Gaseous Diffusion Plant, Paducah,	Dark contractor roney
	Kentucky	
ISSC-PM-PL-001	Integrated Management System Plan	Infrastructure Contractor
	8 8 2	Plan
CP2-HS-2000/FR6B	Worker Safety and Health Program for the Paducah	D&R Contractor Program
	Gaseous Diffusion Plant, Paducah, Kentucky	
ISSC-ESH-PL-004	Worker Safety and Health Plan	Infrastructure Contractor
	nonici sujely and fieddin f ian	Plan
CP3-EN-0227/FR4C	Trenching, Excavation and Penetration Permit	D&R Contractor Procedure
CP3-HS-2003/FR2	Hazard Communication	D&R Contractor Procedure
ISSC-ESH-PR-002	Hazard Communication	Infrastructure Contractor
		Procedure
CP3-FP-2006/FR4	Fire Safety Inspection, Facility Assessment, and Fire	D&R Contractor Procedure
	Hazard Analysis	
CP3-FP-2005/FR3	Welding, Burning and Hotwork	D&R Contractor Procedure
ISSC-ESH-PR-016	Welding, Burning, and Hotwork	Infrastructure Contractor
	0, 0,	Procedure
ISSC-ESH-PR-017	Defective Equipment Tags	Infrastructure Contractor
		Procedure
ISSC-ESH-PR-019	Confined Space Program	Infrastructure Contractor
		Procedure

Table B.1.	. U.S. Department (	of Energy	Contractor	Procedures
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Procedure Number	Procedure Title	Comments
ISSC-PM-PR-006	Excavation-Penetration Activities	Infrastructure Contractor Procedure
CP3-HS-2010/FR6	Instructions for Lockout/Tagout	D&R Contractor Procedure
ISSC-ESH-PR-007	Instructions for Lockout/Tagout	Infrastructure Contractor Procedure
CP3-HS-2008/FR3B	Accident Prevention/Equipment Control Tags	D&R Contractor Procedure
Uranium Program Proc		1
Procedure Number	Procedure Title	Comments
DUF6-PLN-117	Paducah Groundwater Protection Plan	DUF ₆ Plan
DUF6-PLN-079	Paducah Storm Water Pollution Prevention and Best Management Practices Plan	DUF ₆ Plan
Transportation Procedu		1
Procedure Number	Procedure Title	Comments
DUF6-U-WMP-2001	Shipping	DUF ₆ Procedure
DUF6-U-WMP-2003	HF Shipping	DUF ₆ Procedure
CP2-WM-0025/FR2D	Four Rivers Nuclear Partnership, LLC Paducah Deactivation and Remediation Project Transportation Security Plan for the Transport of Hazardous Materials in Commerce	D&R Contractor Program
CP2-WM-0661/FR0E	Four Rivers Nuclear Partnership, LLC, Paducah Deactivation and Remediation Project Transportation Safety Document for On-Site Transport	D&R Contractor Plan
Waste Management Pro		•
Procedure Number	Procedure Title	Comments
CP2-WM-0001/FR3	Four Rivers Nuclear Partnership, LLC, Paducah Deactivation and Remediation Project Waste Management Plan	D&R Contractor Plan
CP3-WM-1017/FR2C	Safe Handling and Opening of Sealed Containers	D&R Contractor Procedure
CP3-WM-1037/FR3	Generation and Temporary Storage of Waste Materials	D&R Contractor Procedure
CP3-QA-2501/FR3	Waste Certification	D&R Contractor Procedure
CP3-QA-2500/FR2C	Procurement, Inspection, and Management of Items Critical for Paducah Off-Site Waste Shipments	D&R Contractor Procedure
ISSC-ESH-PR-005	Storage and Disposition of Spent Materials	Infrastructure Contractor Procedure
CP3-WM-3015/FR4A	Waste Packaging	D&R Contractor Procedure
Data and Sampling Pro	cedures	
Procedure Number	Procedure Title	Comments
CP2-ES-0811/FR1A	Pesticide and PCB Analyses Data Verification and Validation Paducah Gaseous Diffusion Plant, Paducah, Kentucky	D&R Contractor Program
CP3-ES-2708/FR0A	Chain-of-Custody Forms, Field Sample Logs, Sample Labels, and Custody Seals	D&R Contractor Procedure
	Quality Assured Data	D&R Contractor Procedure
CP3-ES-5003/FR4	guanty Assured Data	Durt Contractor 1 1000aut

Data and Sampling Procedures			
Procedure Number	Procedure Title	Comments	
CP4-ES-5007/FR2A	Data Management Coordination	D&R Contractor Procedure	
CP2-ES-5102/FR1A	Radiochemical Analysis Data Verification and Validation Paducah Gaseous Diffusion Plant, Paducah, Kentucky	D&R Contractor Program	
CP2-ES-5103/FR1A	Polychlorinated Dibenzodioxins/Polychlorinated Dibenzofurans Analyses Data Verification and Validation Paducah Gaseous Diffusion Plant, Paducah, Kentucky	D&R Contractor Program	
CP2-ES-5105/FR2A	Volatile and Semivolatile Analyses Data Verification and Validation Paducah Gaseous Diffusion Plant, Paducah, Kentucky	D&R Contractor Program	
CP2-ES-5107/FR1A	Inorganic Analyses Data Verification and Validation Paducah Gaseous Diffusion Plant, Paducah, Kentucky	D&R Contractor Program	