

***Preliminary Determination
of Hazardous Waste
from Other Generators
Collocated with Rocky
Flats Plant Transuranic
Waste in the OU 7-13/14
Subsurface Disposal Area***

**Idaho
Completion
Project**

Bechtel BWXT Idaho, LLC

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May 2004

**Idaho Completion Project
Idaho Falls, Idaho 83415**

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ABSTRACT

This report documents a preliminary determination of potential Resource Conservation and Recovery Act (RCRA) listed and characteristic hazardous waste from generators other than the Rocky Flats Plant (RFP) that is collocated with RFP transuranic (TRU) waste in the Subsurface Disposal Area (SDA) at the Idaho National Engineering and Environmental Laboratory.

Information presented in this report supports assessment of the regulatory compliance and waste management aspects of the RFP TRU waste retrieval alternative in the Operable Unit 7-13/14 remedial investigation and feasibility study. This information also will be used to assess the potential of assigning RCRA hazardous waste numbers in support of future acceptable knowledge documentation. Acceptable knowledge for RFP TRU waste and collocated non-RFP waste buried in the SDA is being developed in a separate task.

The objectives of this report are to

- Identify potential listed and characteristic waste from generators other than RFP that is collocated with RFP TRU waste
- Identify, where possible, waste streams from non-RFP generators that generated potential listed and characteristic hazardous waste
- Describe the rationale for potentially assigning listed and characteristic hazardous waste numbers to waste from non-RFP waste generators
- Identify specific locations in the SDA where potential listed and characteristic waste from non-RFP waste generators was buried.

This report documents all shipments to the SDA where it was possible to identify or infer the presence of suspect hazardous contaminants from non-RFP sources buried in a pit or trench containing RFP TRU. The data have been grouped by waste stream, disposal location, and contaminant. The contaminant, shipment document identification, shipment description, disposal pit, disposal location in the pit, and waste stream are shown for each shipment.

It is concluded that some potential listed waste streams associated with the non-RFP waste streams are commingled or collocated with the RFP TRU waste streams. An even larger number of potential, characteristic hazardous waste streams were identified. In many cases, process-related details and records, on which this evaluation was based, are insufficient to support a definitive conclusion about assignment of RCRA hazardous waste numbers. Consequently, all hazardous waste numbers are identified only as “potential” in this report. Further review of detailed facility records about the associated waste generation processes, when available, would be necessary to support more definitive conclusions. Performance of detailed research activities and associated reviews is beyond the scope of this task, but will be performed as part of a separate task to develop acceptable knowledge documentation for various waste streams within the SDA.

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ACRONYMS

AK	acceptable knowledge
CAS	Chemical Abstracts Service
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CFA	Central Facilities Area
CIDRA	Contaminant Inventory Database for Risk Assessment
DOE	U.S. Department of Energy
EBR-II	Experimental Breeder Reactor–II
EPA	U.S. Environmental Protection Agency
HDT	Historical Data Task
HTRE	Heat Transfer Reactor Experiment
HWN	hazardous waste number
ICC	Interstate Commerce Commission
ICPP	Idaho Chemical Processing Plant
ID	identification number
IET	Initial Engine Test
INEEL	Idaho National Engineering and Environmental Laboratory
LLW	low-level waste
ML-1	Mobile Low Power Reactor No. 1
MTR	Materials Test Reactor
NOS	not otherwise specified
NRF	Naval Reactors Facility
OU	operable unit
PBF	Power Burst Facility
PM-2A	Portable Medium Nuclear Power Plant
RCRA	Resource Conservation and Recovery Act
RFP	Rocky Flats Plant
RTD	retrieval, treatment, and disposal

RWMC	Radioactive Waste Management Complex
RWMIS	Radioactive Waste Management Information System
SDA	Subsurface Disposal Area
SNAP	Systems for Nuclear Auxiliary Power
SNAPTRAN	Systems for Nuclear Auxiliary Power Transient
SPERT	Special Power Excursion Reactor
TAN	Test Area North
TRA	Test Reactor Area
TRU	transuranic

Preliminary Determination of Hazardous Waste from Other Generators Colocated with Rocky Flats Plant Transuranic Waste in the OU 7-13/14 Subsurface Disposal Area

1. INTRODUCTION

This report documents a preliminary evaluation of potential listed and characteristic hazardous waste from generators other than the Rocky Flats Plant (RFP)^a that is colocated with RFP transuranic (TRU) waste in the Subsurface Disposal Area (SDA) within the Radioactive Waste Management Complex (RWMC) at the Idaho National Engineering and Environmental Laboratory (INEEL). Figure 1 presents a map of the INEEL showing the location of the RWMC. Figure 2 contains a map of the RWMC showing SDA pits, trenches, and soil vault rows.

The SDA is being evaluated under the “Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA/Superfund)” (42 USC § 9601 et seq., 1980). Remedial alternatives for the landfill are being developed in the Waste Area Group 7 remedial investigation and feasibility study for Operable Unit (OU) 7-13/14. The retrieval, treatment, and disposal (RTD) alternative is one of several remedial alternatives being evaluated in the OU 7-13/14 feasibility study for TRU waste received from RFP. In 1976, the “Resource Conservation and Recovery Act” (42 USC § 6901 et seq., 1976) was passed to control disposal of listed and characteristic waste (see Section 1.6). Although waste buried in the 1950s and 1960s was not subject to RCRA, circumstances governing retrieval of the waste could cause it to be classified as newly generated waste and, therefore, subject to RCRA regulations. Information is necessary to determine RCRA waste designation to identify appropriate treatment and other waste management requirements for waste that may be retrieved. Existing acceptable knowledge (AK)^b for stored waste streams provides a preliminary basis for evaluating waste treatment requirements for RFP TRU waste. However, waste received from non-RFP generators is colocated in the landfill with RFP waste. Therefore, this report focuses on identifying potential RCRA listed and characteristic hazardous waste from non-RFP generators that is colocated with RFP TRU waste.

1.1 Document Organization

The remainder of this first section describes objectives, scope, and assumptions that underlie the evaluation and provide background information about the SDA and RCRA. Section 2 describes methods and information sources applied in this analysis, and Section 3 provides detailed results. A summary and conclusions are provided in Section 4. References are listed in Section 5.

a. The Rocky Flats Plant is located 26 km (16 mi) northwest of Denver. In the mid-1990s, it was renamed the Rocky Flats Environmental Technology Site. In the late 1990s it was again renamed to its present name, the Rocky Flats Plant Closure Project.

b. Acceptable knowledge: Knowledge used for waste characterization, which is based on the materials and processes used to generate a waste. Acceptable knowledge includes information about the physical form of the waste, the base materials comprising the waste (especially hazardous and radioactive materials), and the process that generated the waste.

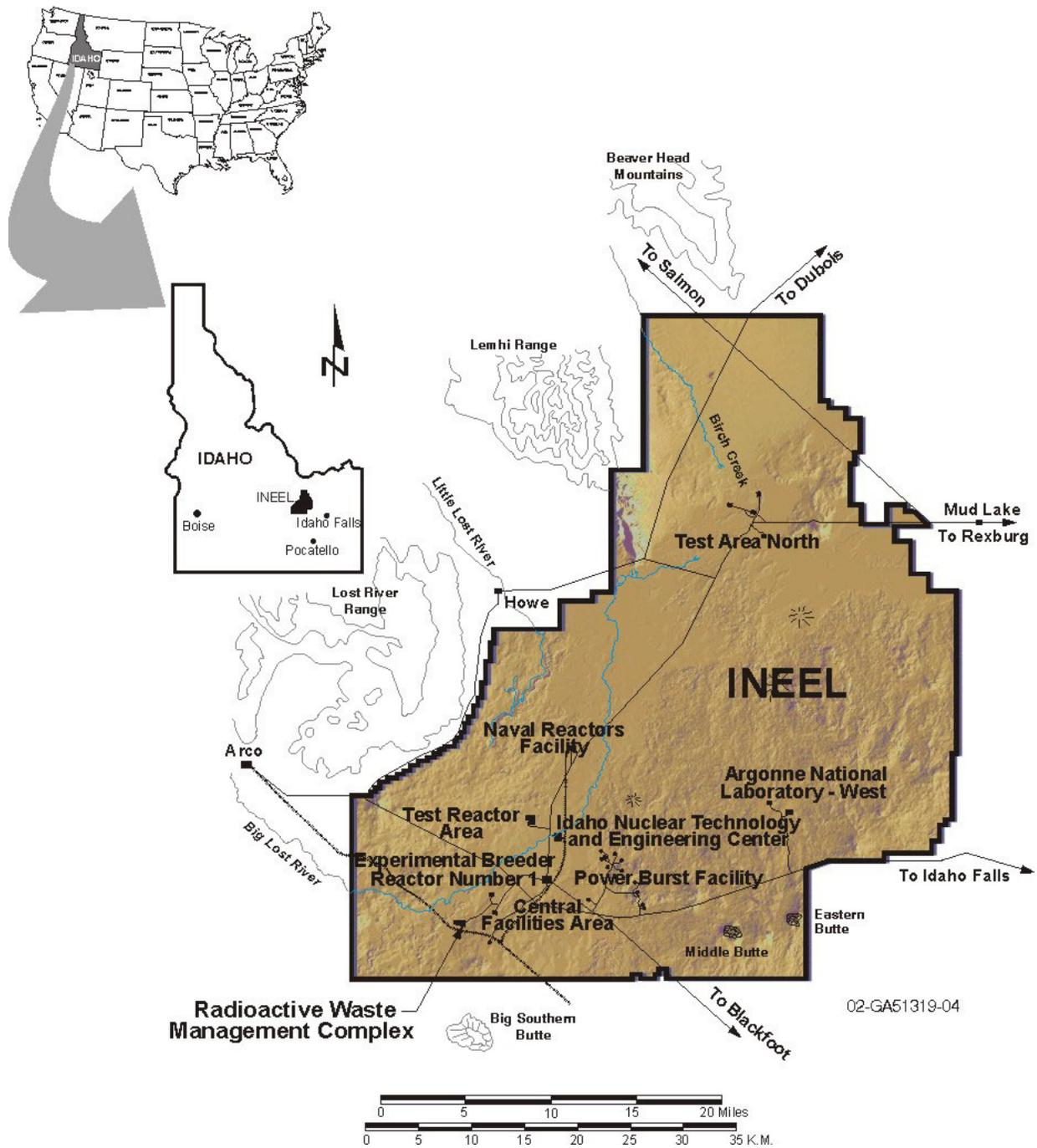
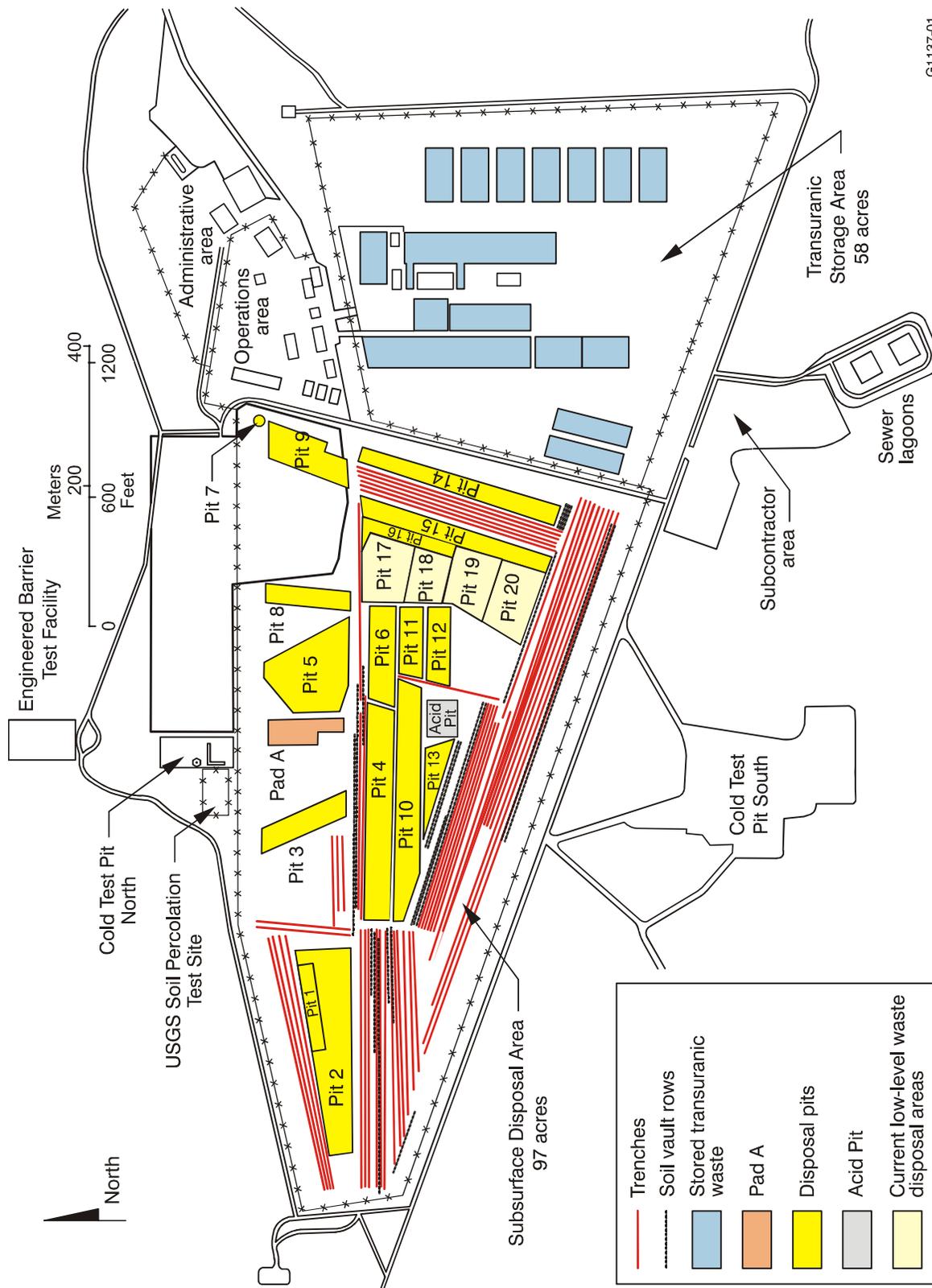


Figure 1. Map of the Idaho National Engineering and Environmental Laboratory showing the location of the Radioactive Waste Management Complex as well as other major Site facilities.



G1137-01

Figure 2. Graphic of the Radioactive Waste Management Complex showing the Subsurface Disposal Area pits, trenches, and soil vault rows.

1.2 Objectives

Information presented in this report will provide preliminary hazardous waste determination information for non-RFP waste streams that can be used to support evaluation of the RFP TRU retrieval alternative in the OU 7-13/14 feasibility study. Objectives of this report are listed below:

- Identify potential listed and characteristic waste from generators other than RFP that is collocated with RFP TRU waste
- Identify, where possible, waste streams from non-RFP generators that generated the potential listed and characteristic hazardous waste
- Describe the rationale for potential assignment of listed and characteristic hazardous waste numbers to waste from non-RFP generators
- Identify specific locations in the SDA where the potential listed and characteristic waste from non-RFP generators was buried

1.3 Scope

This report documents the disposal of potential listed and characteristic waste from generators other than RFP that is collocated with RFP TRU waste. The radioactive attributes of the waste are not addressed. The results documented herein are limited to waste collocated with RFP waste in Pits 2, 3, 4, 5, 6, 9, 10, 11, and 12. Although RFP and non-RFP waste was collocated in Trenches 1–10, these trenches are not included in this study because of lack of shipment records and other data specifying the waste buried in these trenches. The remaining pits, trenches, and soil vault rows were excluded from this study because the collocation of RFP TRU and non-TRU waste from other generators was no longer an acceptable practice during the period when these disposal locations were active.

This evaluation was performed using existing information including shipment records and other existing documentation describing waste buried at the SDA. No sample collection or field verification of the existing data were performed during this study. All shipment records of waste buried in Pits 1, 2, 3, 4, 5, 6, 9, 10, 11, and 12 were examined to determine whether possible listed or characteristic waste was included in the shipment. Other documentation, most notably waste stream classification of waste in *A Comprehensive Inventory of Radiological and Nonradiological Contaminants in Waste Buried in the Subsurface Disposal Area of the INEL RWMC During the Years 1952–1983* (LMITCO 1995) (commonly referred to as the Historical Data Task (HDT)), was used to identify the processes that generated the waste and additional attributes of the waste to enable preliminary RCRA classification of nonradioactive components of the waste.

1.4 Assumptions

This effort was based on the following assumptions:

- Available information is sufficient to develop general conclusions about the presence, locations, and waste-generating processes associated with suspect listed and characteristic waste
- This preliminary analysis will be sufficient to support development of a feasibility study RTD alternative, though additional work may be required to support remedial design and remedial action if RTD is selected as the preferred remedial alternative in the OU 7-13/14 record of decision

- Acceptable knowledge for RFP TRU waste and non-RFP TRU waste collocated with the TRU waste is being developed in a separate task and will be the basis for the final hazardous waste determination, as necessary
- This evaluation assesses all types of suspect hazardous nonradiological contaminants as identified in the HDT
- This evaluation addresses all identified shipments that potentially contain possible listed or hazardous waste buried in disposal locations containing RFP TRU and non-RFP waste.

1.5 Background of the Subsurface Disposal Area

The RWMC, located in the southwest portion of the INEEL (see Figure 1), is a solid waste disposal site. It consists of the 39-ha (97-acre) SDA, the 23-ha (58-acre) Transuranic Storage Area, and the administrative area. Contaminants in the SDA include hazardous chemicals, remote-handled fission and activation products, TRU radionuclides, and other radioisotopes. Waste is buried in pits, trenches, and soil vault rows (see Figure 2).

Containers of TRU waste from RFP were buried in the SDA beginning in 1954 and ending in 1970. The RFP waste was collocated with waste generated at the INEEL and other off-INEEL generators for several years. Between 1960 and 1963, the SDA also was used as a landfill for waste generated by licensees of the U.S. Atomic Energy Commission, a predecessor agency to the U.S. Department of Energy (DOE). Waste from a number of off-INEEL generators was buried at the SDA throughout this period. Two additional shipments of non-RFP off-INEEL waste were buried in 1967 and 1969. Beginning in 1970, the U.S. Atomic Energy Commission instituted a policy requiring segregation and retrievable storage of TRU waste.^c The Transuranic Storage Area was established in 1970 for aboveground storage of TRU waste.

Mixed waste containing hazardous chemical and radioactive contaminants was accepted for SDA disposal through 1983. Since 1984, waste disposals at the SDA have been limited to low-level waste (LLW) from INEEL generators. The *Ancillary Basis for Risk Analysis of the Subsurface Disposal Area* (Holdren et al. 2002) provides a comprehensive description of the SDA.

1.6 Resource Conservation and Recovery Act

In 1962, the “Solid Waste Disposal Act” (42 USC § 2011, 1962) was enacted to improve solid waste disposal methods. The act was amended in 1970 by the “Resource Recovery Act.” In 1976, Congress again amended the Solid Waste Disposal Act to create RCRA, a new program for the management of hazardous waste. The RCRA establishes a framework for national programs to achieve environmentally sound management of both hazardous and nonhazardous types of waste. The RCRA gave the U.S. Environmental Protection Agency (EPA) cradle-to-grave authority to control hazardous waste. This includes generation, transportation, treatment, storage, and disposal of hazardous waste. The following statutory definition of a hazardous waste is provided in RCRA:

c. Originally, TRU waste was defined as all waste contaminated with TRU radionuclides in concentrations greater than 10 nCi/g. In 1982, the definition of TRU waste was redefined as materials containing any alpha-emitting radionuclide with an atomic number greater than 92, a half-life longer than 20 years, and a concentration greater than 100 nCi/g.

. . . a solid waste, or combination of solid wastes, which because of its quantity, concentration, or physical, chemical, or infectious characteristics may . . . cause, or significantly contribute to an increase in mortality or an increase in serious irreversible, or incapacitating reversible, illness; or . . . pose a substantial present or potential hazard to human health or the environment when improperly treated, stored, transported, or disposed of, or otherwise managed (Section 1004(5)).

The EPA lists hazardous waste that falls into four categories that include waste from industrial processes and certain commercial chemical products. Furthermore, a solid waste is a hazardous waste if

- It is not excluded by regulation and if it is listed as a hazardous waste
- It is a waste mixture containing one or more types of listed hazardous waste or exhibits one or more characteristics of hazardous waste (i.e., ignitability, corrosivity, reactivity, or toxicity).

Listed waste meets the definition of hazardous waste regardless of the concentration of hazardous constituents. With few exceptions (e.g., spent solvents listed solely because they are ignitable), the only way to have a listed waste relieved from hazardous waste management requirements is to petition EPA or a state to delist the waste. When listed waste is mixed with nonhazardous waste or material, the mixture must be managed as hazardous waste. In contrast to listed waste, a characteristic waste remains a hazardous waste as long as it continues to exhibit a hazard characteristic. Therefore, a mixture of a waste exhibiting a hazardous waste characteristic and a nonhazardous solid waste is not considered hazardous waste unless the mixture exhibits a hazardous-waste characteristic.

The EPA grants specific exclusions if certain conditions are met (e.g., household waste). Several types of waste important to DOE are excluded from the RCRA definition of solid waste, including the following:

- Source, special nuclear, or byproduct material as defined by the “Atomic Energy Act of 1954” (42 USC § 2011-2259, 1954)
- Waste from extraction, beneficiation, and processing of ores and minerals including overburden from mining uranium ores
- Utility waste
- Oil and gas drilling mud and brine
- Some waste that is reused or recycled.

Waste generators must determine whether their solid waste is also hazardous waste, and if so, notify EPA or an authorized state, if appropriate, of their hazardous waste management activities and obtain an EPA identification number. Generators must manage hazardous waste in accordance with the RCRA onsite waste management requirements or obtain a permit for waste management activities. Transportation of a hazardous waste offsite by air, rail, highway, or water is subject to RCRA transporter requirements. The RCRA requires an owner or operator of a hazardous waste treatment, storage, or disposal facility to obtain a permit to operate. Requirements for the design, operation, maintenance, and closure of hazardous waste management units are specific for each type of unit. For example, tanks must meet special tank design and operation requirements, and containers used for storing hazardous waste must satisfy RCRA-defined requirements.

A systematic procedure is generally used to determine whether a waste stream is RCRA-regulated and for assigning appropriate hazardous waste codes. To determine whether a waste stream is listed, detailed knowledge of the waste generation process is obtained and evaluated to determine whether the waste meets any of the listing criteria in *Code of Federal Regulations* (CFR), 40 CFR 261.31–261.33. Designation of waste as a RCRA-listed waste cannot be determined based only on the presence of regulated constituents. For any RCRA listing to apply to a waste stream, information on how the waste was generated is necessary. The waste stream also must be evaluated to determine whether it exhibits any of the RCRA hazardous waste characteristics described in 40 CFR 261.21–261.24. To designate waste as RCRA characteristic requires detailed knowledge of the waste constituents and waste generation process or results of testing for physical properties and leaching.

In a CERCLA context where waste was buried before the RCRA requirements became effective, the process is more complex. As stated by the EPA in the preamble to the “National Oil and Hazardous Substances Pollution Contingency Plan” (40 CFR 300):

. . . at many CERCLA sites no information exists on the source of the wastes nor are references available citing the date of disposal. The lead agency should use available site information, manifests, storage records and vouchers in an effort to ascertain the source of these contaminants. When this documentation is not available, the lead agency may assume that the wastes are not listed RCRA hazardous wastes, unless further analysis or information becomes available which allows the lead agency to determine that the wastes are listed RCRA hazardous wastes. (FR Volume 53, No. 245, Wednesday December 21, 1988 at 51444).

This report initiates the evaluation of available source documentation for the waste streams, subject to the scope of the evaluation and results in identifying a number of potential hazardous waste codes that may be applicable to the waste streams. Acceptable knowledge tasks discussed previously will provide additional review of source documentation and records to provide a final hazardous waste determination for the waste streams.

Although waste buried in the SDA during the 1950s and 1960s was not subject to RCRA, circumstances governing retrieval and subsequent management of the waste could cause it to be classified as newly generated waste and subject to RCRA regulations (i.e., assuming sufficient process information is available to assign listed waste codes or process information and/or analytical testing information is available to assign characteristic waste codes).

2. METHODOLOGY

The first step of this evaluation was to identify the pits and trenches with collocated RFP TRU and non-RFP waste. The data in Table 1 was taken from the *Preliminary Evaluation of Remedial Alternatives for the Subsurface Disposal Area* (Zitnik et al. 2002). The assumption that “. . .50% of RFP waste in the pits and trenches. . .will be classified as TRU waste. . .” was used in generating this table. Data in Table 1 initially were used to identify possible locations of non-RFP hazardous contaminants in pits and trenches containing RFP TRU.

Table 1. Waste volume in pits and trenches containing Rocky Flats Plant, non-Rocky Flats Plant, and nontransuranic waste.

Pit or Trench Number	Volume of Non-RFP Waste (m ³)	Volume of RFP Waste (m ³)	Total Waste Volume (m ³)	Volume of RFP TRU Waste (m ³)	Volume of Non-TRU Waste (m ³)
1	1,460	4,380	5,840	2,190	3,650
2	2,820	6,500	9,320	3,250	6,070
3	620	1,370	2,000	685	1,305
4	1,580	9,320	10,900	4,660	6,240
5	780	7,000	7,780	3,500	4,280
6	650	6,210	6,860	3,105	3,755
9	620	3,400	4,020	1,700	2,320
10	2,610	13,300	15,910	6,650	9,260
11	3	420	423	210	213
12	120	1,770	1,890	885	1,005
T1	130	390	520	195	325
T2	70	200	270	100	170
T3	150	440	590	220	370
T4	160	480	640	240	400
T5	170	510	680	255	425
T6	160	480	640	240	400
T7	110	320	430	160	270
T8	160	490	650	245	405
T9	10	30	40	15	25
T10	80	250	330	125	205

RFP= Rocky Flats Plant
TRU = transuranic

Burial location information was obtained primarily from shipment documents and from the underlying WasteOScope data (White and Tedrow 2002). WasteOScope is a Geographic Information System application designed to assist remedial activities at the RWMC. The underlying WasteOScope data contain burial location data for waste buried at the SDA. However, the contaminant information data—especially nonradiological data (both type and volume)—are quite limited. This system was used to identify pits and trenches that contain both RFP and non-RFP waste. The presence of RFP waste in a pit

or trench was treated as an indicator of TRU waste. Pits and trenches containing RFP waste were identified by finding all shipment documents with document identification numbers (IDs) beginning with “RF.” Similarly, finding all shipment documents not beginning with RF identified pits and trenches containing non-RFP waste.

After the pits and trenches containing RFP TRU and non-RFP waste were identified, the shipment descriptions in the underlying WasteOScope data and the shipping documents were used to identify suspect hazardous contaminants contained in the shipment. In addition, the Radioactive Waste Management Information System (RWMIS) was also used to corroborate the data. Finally, a list of all shipping documents in the INEEL Electronic Document Management System for the pits and trenches of interest was obtained to further ensure completeness. Shipment description data, in general, contained very little contaminant information. Before RCRA became effective at DOE sites in 1984, nonradiological constituents of the waste were not fully documented.

Further information concerning nonradiological contaminants was obtained from the HDT. The HDT contains contaminant information data including upper and lower bounds and best estimates for contaminants buried in the SDA. The HDT is organized by waste stream and does not include location data. The HDT compiled the inventory for waste buried in the SDA from 1952–1983. The inventory includes a best estimate, and upper bounds for all nonradiological contaminants for all generators. Candidate nonradiological contaminants for inclusion in the HDT were determined by screening against two lists. One list consisted of the hazardous substances designated under the “Federal Water Pollution Control Act (Clean Water Act)” (33 USC § 1251-1387, 1972), “Solid Waste Disposal Act” (i.e., RCRA), and the “Toxic Substances Control Act” (15 USC § 2601 et seq., 1976). The second list covered contaminants listed in the National Primary Drinking Water Standards of the “Safe Drinking Water Act” (42 USC § 300f to 300j-26, 1974). If there was any question about whether to include a nonradiological contaminant, it was included.

The Contaminant Inventory Database for Risk Assessment (CIDRA) is a database containing HDT and more recent inventory data. The more recent data available in CIDRA were not required for this study. Significant efforts were not expended to search for additional nonradiological contaminants data because, as the HDT stated in the observations and conclusions section, the inventory information from CIDRA was believed to be substantially complete, and the process information gathered during compilation of the HDT from many sources resulted in closing most of the gaps that existed.

Data in the HDT are waste-stream based and do not include disposal-location data. Waste streams are logical groupings of waste based on common characteristics and the waste source. The HDT did include a listing of nonradiological contaminants associated with the waste stream. However, without adequate shipment descriptions in the shipping documents, it was often not possible to definitively assign shipments to waste streams and determine whether the contaminants of interest were buried in the disposal locations of interest. Many shipments were assigned to waste streams in the underlying WasteOScope data. Shipments without waste stream assignments were assigned to waste streams based on shipment descriptions, shipment source, disposal dates, and waste-stream-specific information.

A list of all nonradiological contaminants in the HDT was compiled for waste streams associated with shipments of waste buried in pits or trenches with collocated RFP TRU and non-RFP waste. The contaminants were assigned potential RCRA classifications (listed or characteristic) based on waste stream descriptions and the shipment documentation. The resulting list is presented in Section 3. Shipment descriptions for all shipments to pits and trenches with collocated RFP TRU and non-RFP waste were examined to determine which shipments contained suspect hazardous contaminants. The shipment documents also contained disposal location data that enabled identification of the disposal location of suspect hazardous contaminants.

3. RESULTS

This section and associated Appendixes A and B, present all shipments to the SDA where it was possible to identify or infer the presence of suspect hazardous contaminants from non-RFP sources buried in a pit or trench containing RFP TRU. The intersection of (1) disposal locations associated with shipments from RFP with (2) disposal locations associated with non-RFP sources in the underlying WasteOScope data resulted in identification of potential locations for the burial of collocated RFP TRU and non-RFP waste. Disposal locations identified were Pits 2, 3, 4, 5, 6, 9, 10, 11, 12, and 13; and Trenches 19 and 32.

No shipment records were available for waste buried in Pit 1 and Trenches 1 and 2 in the underlying WasteOScope data. All shipment records in the underlying WasteOScope data for waste buried in Trenches 3–10 were from RFP. Pit 1 was closed October 1, 1959; and Trenches 1–10 were closed by February 7, 1959. Data from RWMIS for this period include only annual summary data, not individual shipment data. Therefore, no shipment records were available for non-RFP waste buried in Pit 1 or Trenches 1–10. Only one shipment from RFP, which apparently did not contain TRU, was found in the underlying WasteOScope data for Pit 13. In addition, the underlying WasteOScope data indicated one shipment from RFP was buried in Trench 19, and two shipments were buried in Trench 32. There was some evidence of plutonium in these shipments; however, the amount of plutonium is extremely small. The RWMIS reports less than 0.01 nCi (10^{-9} Ci) for each shipment from RFP; therefore, the trenches are not considered to contain TRU.

WasteOScope also contained 22 shipment records with associated generator records listing RFP waste streams buried in Trench 49. However, the shipment record IDs indicated the following INEEL shipment origins:

- Idaho Chemical Processing Plant (ICPP) 12
(i.e., renamed the Idaho Nuclear Technology Engineering Center)
- Naval Reactors Facility (NRF) 6
- Test Area North (TAN) 1
- Test Reactor Area (TRA) 3.

The originating organization and shipment description fields for these shipments did not reflect an origin of RFP. For example, five of the NRF shipment descriptions indicated S5W hardware as shipment contents.^d Therefore, Trench 49 was not considered a disposal location with both RFP TRU and non-RFP waste disposal.

The burial locations containing RFP TRU waste and non-RFP waste (i.e., Pits 2, 3, 4, 5, 9, 10, 11, and 12) will be called the RFP TRU pits throughout the remainder of this document.

d. WasteOScope is known to contain some errors that place a relatively small set of shipments in the wrong pits. These errors have been identified and are being corrected. The revised data will be verified and validated through a thorough quality assessment, and an updated version of WasteOScope will be released. However, the evaluation effort documented in this report couldn't wait for that release and the HDT was used to informally compare and correct the data so that the evaluation could be completed.

Appendix A provides data for shipments that contain non-RFP suspect hazardous contaminants that were buried in a pit or trench containing RFP TRU. These data have been grouped by (1) waste stream, (2) disposal location, and (3) contaminant. The contaminant, shipment document ID, shipment description, disposal pit, disposal location in the pit, and waste stream are shown. Each shipment was assigned to a single waste stream based on shipment source, description, and date; waste stream description; and waste stream generation time frame. Based on the information documented in Appendix A, waste streams with potential RCRA hazardous waste numbers were identified. The results are summarized in Table 2.^e This table is sorted by waste stream designation. The table summarizes the contaminants, disposal location, process information, and rationale associated with the potential RCRA hazardous waste number assignment for each waste stream. Waste stream definitions from the HDT indicate that other suspect hazardous contaminants may have been buried in the RFP TRU pits, but the shipment documentation is insufficient to identify the specific pit or trench.

A complete listing of shipment data for all shipments buried in Pits 2, 3, 4, 5, 6, 9, 10, 11, and 12, and associated waste streams can be found in Appendix B. In addition, a more extensive description of facilities and processes that generated the waste can be found in the HDT document and, for non-RFP generators, in the *Idaho National Engineering Laboratory Stored Transuranic Waste Characterization: Nonradiological Hazards Identification* (Clements 1980).

e. During finalization of this report, a recommendation was made to perform additional screening of the waste streams in Table 2 to identify waste streams (1) that have characteristic and listed hazardous waste codes (i.e., streams that would have codes assigned based on available information), (2) to which characteristic and listed hazardous waste codes would definitely not apply, (3) for which additional waste-generation-process information would have to be obtained and evaluated to make a definitive hazardous waste determination. In the absence of waste-generation information, codes would probably not apply. In addition, the recommendation was made to determine the type of process information needed.

These recommendations were not addressed in this report because (1) project environmental personnel concluded that available information on which this report was based (i.e., the HDT and shipping records) is not sufficient to definitively assign listed and characteristic hazardous waste numbers for any waste streams listed in Table 2; (2) the AK task and documentation for waste streams addressed in this report are currently being developed and will have the benefit of additional process-waste-stream research and documentation not evaluated in the scope of this report; because of this, there is a reasonable potential that any definitive waste-code assignment made in this report will contradict those identified through the AK effort; (3) personnel preparing the AK documentation have the expertise and experience to identify the type of process information needed to support the AK report; thus, it is concluded that identification of this process information will be deferred to the AK effort.

Table 2. Shipment record data for non-Rocky Flats Plant shipments to the Subsurface Disposal Area.

Waste Streams	CAS #	Nonradiological Contaminants	Contaminant Found on List ^a (F, K, P, U)	Potential Characteristic Hazardous Waste Number	Estimated Quantity of Contaminant	Process for Use and Generation of Contaminant	Comments and Conclusions
ANL-765-1H	7439-92-1	Lead	N/A	D008	Unknown – no estimate (per HDT) – (waste streams were also buried in non-TRU trenches)	Lead was identified as being buried in all of the RFP TRU pits. In addition, lead was reported in more shipments than any other contaminant. Lead came in the form of shielding, bricks, and scrap metal (mostly). (HDT)	Lead can be potentially hazardous, but is not a listed waste. If lead were being used as shielding within the containers, it would not be regulated as a hazardous waste as long as it continues that function.
CFA-633-1H	7439-92-1	Lead	N/A	D008	0 to 810 kg (per HDT) – (waste streams were also buried in non-TRU trenches)	Lead was identified as being buried in all of the RFP TRU pits. In addition, lead was reported in more shipments than any other contaminant. Lead came in the form of shielding, bricks, and scrap metal (mostly). (HDT)	Lead can be potentially hazardous, but is not a listed waste. If lead were being used as shielding within the containers, it would not be regulated as a hazardous waste as long as it continues that function.
CFA-654-1H	7439-92-1	Lead	N/A	D008	0 to 800 lb (per HDT) – (waste streams were also buried in non-TRU trenches)	Lead was identified as being buried in all of the RFP TRU pits. In addition, lead was reported in more shipments than any other contaminant. Lead came in the form of shielding, bricks, and scrap metal (mostly). (HDT)	Lead can be potentially hazardous, but is not a listed waste. If lead were being used as shielding within the containers, it would not be regulated as a hazardous waste as long as it continues that function.
CFA-687-1H	7439-92-1	Lead	N/A	D008	0 to 333879 lb (per HDT) – (waste streams were also buried in non-TRU trenches)	Lead was identified as being buried in all of the RFP TRU pits. In addition, lead was reported in more shipments than any other contaminant. Lead came in the form of shielding, bricks, and scrap metal (mostly). (HDT)	Lead can be potentially hazardous, but is not a listed waste. If lead were being used as shielding within the containers, it would not be regulated as a hazardous waste as long as it continues that function.

Table 2. (continued).

Waste Streams	CAS #	Nonradiological Contaminants	Contaminant Found on List ^a (F, K, P, U)	Potential Characteristic Hazardous Waste Number	Estimated Quantity of Contaminant	Process for Use and Generation of Contaminant	Comments and Conclusions
CFA-690-1H	7778-80-5	Perchloric acid residue	N/A	D003	Unknown quantity (per shipping document CFA690SR008/22/67800)	This waste stream consists of combustibles, animal carcasses and feces, scrap metal, sources, sand and gravel. CFA-690 is the Radiological/Environmental Laboratory (RESL). The HDT did not list perchloric as a nonradiological contaminant, but the shipping paper identified perchloric residue on some laboratory exhaust hoods that were discarded. (HDT, Appendix B, p. CFA-161)	Perchloric acid residue can be reactive under certain conditions, but not enough information is available to determine if this waste meets those conditions.
CPP-601-5H	67-64-1	Acetone	F003, U002	D001	0 to 22.55 kg (per HDT) – (waste stream was also buried in non-TRU trenches)	The CPP-601-5H waste stream contains organic solvents. Much of this waste stream came from CF674A that was the pilot plant used to develop dissolution and extraction processes for the Idaho Chemical Processing Plant (ICPP). The liquid was probably buried in the acid, chemical, or fluoride pits and the containers buried in the SDA. The organics may have been burned. (HDT, Appendix B, p. CPP-26)	To meet the F003 listing, the acetone must have been used for its solvent properties and must also have been used at 100% strength, or in combination with other F-listed solvents (F001 through F005) so that the mixture comprised 100% RCRA-regulated solvents before use. From the existing data, it is not possible to determine the concentration of acetone, either alone or as part of a mixture, before it was used, so it cannot be determined whether the F003 HWN is applicable in this case.
CPP-601-5H	56-23-5	Carbon tetrachloride	F001, U211	D019	0 to 22.55 kg (per HDT) – (waste stream was also buried in non-TRU trenches)	The CPP-601-5H waste stream contains organic solvents. Much of this waste stream came from CF674A that was the pilot plant used to develop dissolution and extraction processes for the Chemical Processing Plant (CPP). The liquid was probably buried in the acid, chemical, or fluoride pits and the containers buried in the SDA. The organics may have been burned. (HDT, Appendix B, p. CPP-26)	It would appear that the carbon tetrachloride was used as a diluent in combination with other extraction chemicals being tested. Use as a diluent is part of the spent solvent definition, and F002 should probably apply in this instance.

Table 2. (continued).

Waste Streams	CAS #	Nonradiological Contaminants	Contaminant Found on List ^a (F, K, P, U)	Potential Characteristic Hazardous Waste Number	Estimated Quantity of Contaminant	Process for Use and Generation of Contaminant	Comments and Conclusions
CPP-601-5H	64175	Ethyl alcohol	N/A	D001	0 to 22.55 kg (per HDT) – (waste stream was also buried in non-TRU trenches)	The CPP-601-5H waste stream contains organic solvents. Much of this waste stream came from CF674A that was the pilot plant used to develop dissolution and extraction processes for CPP. The liquid was probably buried in the acid, chemical, or fluoride pits and the containers buried in the SDA. The organics may have been burned. (HDT, Appendix B, p. CPP-26)	This contaminant does not show up on any of the listed waste tables. However, ethyl alcohol is ignitable and potentially toxic.
CPP-601-5H	108-10-1	Methyl isobutyl ketone	F003, U161	D001	0 to 8,928 kg (per HDT) – (waste stream was also buried in non-TRU trenches)	The CPP-601-5H waste stream contains organic solvents. Much of this waste stream came from CF674A that was the pilot plant used to develop dissolution and extraction processes for the Chemical Processing Plant (CPP). The liquid was probably buried in the acid, chemical, or fluoride pits and the containers buried in the SDA. The organics may have been burned. (HDT, Appendix B, p. CPP-26)	To meet the F003 listing the methyl isobutyl ketone must have been used for its solvent properties and must also have been used at 100% strength, or in combination with other F-listed solvents (F001 through F005) so that the mixture comprised 100% RCRA-regulated solvents before use. From the existing data, it is not possible to determine the concentration of methyl isobutyl ketone, either alone or as part of a mixture, before it was used, so it cannot be determined whether the F003 HWN is applicable in this case.
CPP-601-7H	7440-67-7	Zirconium	N/A	D001	0 to 18,000 kg (per HDT) – (waste stream was also buried in non-TRU trenches)	This waste stream consists of zirconium and zirconium-uranium alloy and excess metal scrap used for dissolution studies. (HDT, p. 2-54)	Zirconium can be potentially hazardous, but is not a listed waste. A fire did occur in a drum containing zirconium shavings at the SDA.
NRF-617-2H	7439-92-1	Lead	N/A	D008	0 – “large” (per HDT) – (waste streams were also buried in non-TRU trenches)	Lead was identified as being buried in all of the RFP TRU pits. In addition, lead was reported in more shipments than any other contaminant. Lead came in the form of shielding, bricks, and scrap metal (mostly). (HDT)	Lead can be potentially hazardous, but is not a listed waste. If lead were being used as shielding within the containers, it would not be regulated as a hazardous waste as long as it continues that function.

Table 2. (continued).

Waste Streams	CAS #	Nonradiological Contaminants	Contaminant Found on List ^a (F, K, P, U)	Potential Characteristic Hazardous Waste Number	Estimated Quantity of Contaminant	Process for Use and Generation of Contaminant	Comments and Conclusions
NRF-618-1H	7664393	Hydrofluoric acid	U134	D002	0 to 2,200 kg (per HDT) – (waste stream was also buried in non-TRU trenches)	This waste stream consists of dissolved PWR fuel rods absorbed in vermiculite in poly bottles. NRF-618 is the Expanded Core Facility. The amount of acid is likely to be minor. (HDT, p. 3-7)	Because there is insufficient information about this waste stream to determine source and how this contaminant was used, it is not possible to determine whether a RCRA HWN should be applied.
NRF-618-5H		Zirconium alloys	N/A	D001	0 to 13,000 lb (per HDT) – (waste stream was also buried in non-TRU trenches)	This waste stream consists of zirconium alloy (zircaloy) cladding from Navy cores. It is solid scrap, chips from machining operations and saw fines placed in 5-gal cans. NRF-618 is the Expanded Core Facility. (HDT, p. 2-63)	Zirconium can be potentially characteristic, but is not a listed waste.
NRF-618-6H		Resins			Unknown quantity (per various shipping documents)		Resins could potentially have heavy metals (like Cd) or other hazardous constituents still sorbed on them.
OFF-AEI-1H	7439-92-1	Lead	N/A	D008	0 to 39,473 lb (per HDT) – (waste streams were also buried in non-TRU trenches)	Lead was identified as being buried in all of the RFP TRU pits. In addition, lead was reported in more shipments than any other contaminant. Lead came in the form of shielding, bricks, and scrap metal (mostly). (HDT)	Lead can be potentially hazardous, but is not a listed waste. If lead were being used as shielding within the containers, it would not be regulated as a hazardous waste as long as it continues that function.
OFF-ATI-1H	7440-41-7	Beryllium/Beryllium oxide	P015	N/A	0 to 4,400 kg (potential upper limit - per HDT)	The waste stream consists of irradiated fuel and chemical by-products of nuclear reactor research from Atomic International Division, Rockwell. Fuel for the PLUTO Nuclear Ramjet Engine Program was machined from hot-pressed compacts of UO ₂ and BeO. It appears that this is the source of the Be from this generator. (Clements 1980, p. 59)	EPA listing is only for beryllium powder. This waste may be potentially characteristic, but would not meet the definition for listing.

Table 2. (continued).

Waste Streams	CAS #	Nonradiological Contaminants	Contaminant Found on List ^a (F, K, P, U)	Potential Characteristic Hazardous Waste Number	Estimated Quantity of Contaminant	Process for Use and Generation of Contaminant	Comments and Conclusions
OFF-ATL-1H	7439-92-1	Lead	N/A	D008	0 to < E+02 kg (per HDT) – (waste streams were also buried in non-TRU trenches)	Lead was identified as being buried in all of the RFP TRU pits. In addition, lead was reported in more shipments than any other contaminant. Lead came in the form of shielding, bricks, and scrap metal (mostly). (HDT)	Lead can be potentially hazardous, but is not a listed waste. If lead were being used as shielding within the containers, it would not be regulated as a hazardous waste as long as it continues that function.
OFF-GDA-1H	7697-37-2	Nitric acid	N/A	D002	0 to 1,544 lb (per HDT) – (waste stream was also buried in non-TRU trenches)	The waste stream consists of fuel fabrication items, lab equipment, activated metal, and irradiated fuel from General Dynamics, General Atomic Division. Nitric acid was produced by various processes used at the site. It appears that all was neutralized and solidified with Portland cement. (Clements 1980, p. 62)	There is no listed hazardous waste number associated with nitric acid. Based on the described solidification process, it is not likely that the D002 characteristic code would apply.
OFF-IXE-1H	7439-92-1	Lead	N/A	D008	3,055 lb (per HDT) – (waste streams were also buried in non-TRU trenches)	Lead was identified as being buried in all of the RFP TRU pits. In addition, lead was reported in more shipments than any other contaminant. Lead came in the form of shielding, bricks, and scrap metal (mostly). (HDT)	Lead can be potentially hazardous, but is not a listed waste. If lead were being used as shielding within the containers, it would not be regulated as a hazardous waste as long as it continues that function.
OFF-NMR-1H	7631-99-4	Sodium nitrate	N/A	D001	0 to 450 kg (potential upper limit - per HDT)	This waste stream consists of biological waste from the Laboratory of Nuclear Medicine and Radiological Biology, UCLA. The waste is contained in cement matrix in metal drums. This contaminant resulted from plant uptake experiments. Performing chemical separation processes resulted in acidic radioactive waste solutions. One product of the neutralized solution was sodium nitrate. This waste was mixed with cement and disposed of in drums. (Clements 1980, p. 8)	Sodium nitrate can be potentially hazardous, but is not a listed waste. Sodium nitrate mixed with cement is not likely to exhibit oxidizer properties to lead to a designation as a D001 ignitable waste.

Table 2. (continued).

Waste Streams	CAS #	Nonradiological Contaminants	Contaminant Found on List ^a (F, K, P, U)	Potential Characteristic Hazardous Waste Number	Estimated Quantity of Contaminant	Process for Use and Generation of Contaminant	Comments and Conclusions
OFF-SAM-2H	7439-92-1	Lead	N/A	D008	0 to 11,000 lb (per HDT) – (waste streams were also buried in non-buried in non-TRU trenches)	Lead was identified as being buried in all of the RFP TRU pits. In addition, lead was reported in more shipments than any other contaminant. Lead came in the form of shielding, bricks, and scrap metal (mostly). (HDT)	Lead can be potentially hazardous, but is not a listed waste. If lead were used as shielding within the containers, it would not be regulated as a hazardous waste as long as it continued that function.
OFF-SAM-2H	7439-95-4	Magnesium	N/A	D001	0 to 270 kg (potential upper limit - per HDT)	The waste stream consists of a reactor shield weighing 36,000 lb, miscellaneous metals (magnesium alloy, copper, tin, aluminum and stainless steel), insulation, rubber, plastic, paper, glass, wire, dirt, wood, concrete, and ash. The source is San Antonio Air Materials Center, Kelly AFB. (Clements 1980, p. 80)	Magnesium can be potentially characteristic, but is not a U122-listed waste.
OFF-UUNR-1H	7697-37-2	Nitric acid	N/A	D002	0 to 1,200 kg (potential upper limit - per HDT)	The waste stream consists of laboratory waste (paper, wood, glassware, empty bottles, etc.), Co-60 sources, Sr-90 sources, and H-3. The waste is in cardboard boxes in plastic bags. It may include animal carcasses (rats and mice), blood, feces, scintillation vials, I-L containers of fuming nitric acid, and titanium H-3 accelerator targets. The nitric acid containers are inside another container with calcium silicate as an absorbent. This waste stream is from the Nuclear Regulatory Commission, Region V.	No listed hazardous waste number is associated with nitric acid.
OFF-UOU-1H	50-00-0	Formaldehyde	U122	N/A	83.2 lb (per HDT)	The waste stream consists of biological waste, radioactive excreta and animal carcasses (beagles, rabbits, and guinea pigs) mixed in concrete from the University of Utah. The contaminant was used to embalm the carcasses. (Clements 1980, p. 12)	Use of this chemical does not appear to meet the definition of a listed waste.

Table 2. (continued).

Waste Streams	CAS #	Nonradiological Contaminants	Contaminant Found on List ^a (F, K, P, U)	Potential Characteristic Hazardous Waste Number	Estimated Quantity of Contaminant	Process for Use and Generation of Contaminant	Comments and Conclusions
OFF-UOW-IH	56-49-5	3-methylcholanthrene	U157	N/A	0 to E+02 kg (upper level est. - per HDT)	This waste stream is the result of research experiments at the University of Washington using radioisotopes. This contaminant was used to induce tumors in test animals. (Clements 1980, p. 14)	The use of this chemical does not fit the definition for listing as U157.
OFF-UOW-IH	71-43-2	Benzene	F005, U019	D001, D018	0 to 120 kg (upper level est. - per HDT)	This waste stream is the result of research experiments at the University of Washington using radioisotopes. This contaminant was used in diffusion experiments by the Department of Engineering (Nuclear Engineering). (Clements 1980, p. 14)	F005 is for "spent non-halogenated solvents." Because there is insufficient information about this waste stream to determine source and how this contaminant was used, it is not possible to determine whether it should be listed.
OFF-UOW-IH	56-23-5	Carbon tetrachloride	F001, U211	D019	0 to 200 kg (potential upper limit - per HDT)	This waste stream is the result of research experiments at the University of Washington using radioisotopes. This contaminant was used in diffusion experiments by the Department of Engineering (Nuclear Engineering). (Clements 1980, p. 14)	Because there is insufficient information about this waste stream to determine source and how this contaminant was used, it is not possible to determine whether it should be listed.
OFF-UOW-IH	55914	Diisopropylfluorophosphate	P043	N/A	0 to E+02 kg (potential upper limit - per HDT)	This waste stream is the result of research experiments at the University of Washington using radioisotopes. This contaminant was used by the Department of Biochemistry. The contaminant is a cholinesterase inhibitor, similar to nerve agents produced by the military. The disposal procedure for this material is unknown. (Clements 1980, p. 14)	Because there is insufficient information about this waste stream to determine source and how this contaminant was used, it is not possible to determine whether it should be listed.

Table 2. (continued).

Waste Streams	CAS #	Nonradiological Contaminants	Contaminant Found on List ^a (F, K, P, U)	Potential Characteristic Hazardous Waste Number	Estimated Quantity of Contaminant	Process for Use and Generation of Contaminant	Comments and Conclusions
OFF-UOW-1H	67-56-1	Methyl alcohol	U154, F003	D001	0 to 100 kg (potential upper limit - per HDT)	This waste stream is the result of research experiments at the University of Washington using radioisotopes. This contaminant was used in diffusion experiments by the Department of Engineering (Nuclear Engineering). (Clements 1980, p. 14)	To meet the F003 listing, the methanol must have been used for its solvent properties and must also have been used at 100% strength, or in combination with other F-listed solvents (F001 through F005), so that the mixture comprised 100% RCRA-regulated solvents before use. From the existing data, it is not possible to determine the concentration of methanol, either alone or as part of a mixture, before it was used, so it cannot be determined whether the F003 HWN is applicable in this case.
OFF-USN-1H	50-00-0	Formaldehyde	U122	N/A	225 lb (per HDT)	The waste stream consists of animal carcasses, waste paper, towels, glassware, tools, and similar laboratory items. The animal carcasses are pickled in formaldehyde and inside plastic bags. This waste stream is from the U.S. Naval Radiological Defense Laboratory, which performed studies of nuclear weapon effects. (Clements 1980, p. 10)	The use of this chemical does not appear to meet the definition of a listed waste. There is very little information about this contaminant. It appears that it may have been used to embalm animals used in experiments.
OFF-WSU-1H	64175	Ethyl alcohol	N/A	D001	0 to 180 kg (potential upper limit - per HDT)	This waste stream is the result of research experiments at Washington State University using radioisotopes. This contaminant was used in liquid scintillation procedures for counting radioactivity and for extraction procedures for lipogenesis rates studies. It was used with a solvent as part of an ethanol/toluene base for the scintillation procedures and with petroleum ether and ethanol/methanol mixtures for the extractions. (Clements 1980, p. 16)	This contaminant does not show up on any of the listed waste tables. However, ethyl alcohol is ignitable and potentially toxic.

Table 2. (continued).

Waste Streams	CAS #	Nonradiological Contaminants	Contaminant Found on List ^a (F, K, P, U)	Potential Characteristic Hazardous Waste Number	Estimated Quantity of Contaminant	Process for Use and Generation of Contaminant	Comments and Conclusions
OFF-WSU-1H	67-56-1	Methyl alcohol	U154, F003	D001	0 to 180 kg (potential upper limit - per HDT)	This waste stream is the result of research experiments at Washington State University using radioisotopes. This contaminant was used for extraction procedures for lipogenesis rates studies. It was used with petroleum ether and ethanol/methanol mixures for the extraction procedures. (Clements 1980, p. 16)	Because there is insufficient information about this waste stream to determine source and how this contaminant was used, it is not possible to determine whether it should be listed.
OFF-WSU-1H	108-88-3	Toluene	F005, U220	D001	0 to 200 kg (potential upper limit - per HDT)	This waste stream is the result of research experiments at Washington State University using radioisotopes. This contaminant was used in liquid scintillation procedures for counting radioactivity. It was used with a solvent as part of an ethanol/toluene base for the scintillation procedures. (Clements 1980, p. 16)	Although it is apparent that the toluene was used for its solvent properties the concentration of toluene in the mixture is not known. The listing of toluene as an F005 solvent is dependent on exceeding the 10% before use threshold. Because it cannot be determined whether the toluene concentration exceeded this threshold it is not appropriate to assign the F005, HWN based on current information.
PER-613-1H	78-93-3	2-Butanone (Methyl ethyl ketone)	F005, U159	D001, D035	0 to 23.4 lb (per HDT) – (waste stream was also buried in non-TRU trenches)	This waste stream comes from the PBF site. PBF was the site of various SPERT reactor experiments. This waste stream consists of core structure components, reactor vessel and loop components. This contaminant was shipped to the RWMC on rags and wipes used for cleanup. It is likely that this contaminant volatilized to a large extent before disposal. (HDT, p. 2-99)	It cannot be determined from the available process information whether the rags and wipes contain a used solvent (2-butanone). The presence of 2-butanone on rags and wipes is not enough to justify application of the F005 HWN. If additional process knowledge is obtained about the specific use of 2-butanone, then the F005 listing may be appropriate.

Table 2. (continued).

Waste Streams	CAS #	Nonradiological Contaminants	Contaminant Found on List ^a (F, K, P, U)	Potential Characteristic Hazardous Waste Number	Estimated Quantity of Contaminant	Process for Use and Generation of Contaminant	Comments and Conclusions
PER-613-1H	67-64-1	Acetone	F003, U002	D001	0 to 78 lb (per HDT) – (waste stream was also buried in non-TRU trenches)	This waste stream comes from the PBF site where various SPERT reactor experiments were performed. This waste stream consists of core structure components, reactor vessel and loop components. This contaminant was shipped to the RWMC on rags and wipes used for cleanup. It is likely that this contaminant volatilized to a large extent before disposal. (HDT, pp. 2-99)	To meet the F003 listing the acetone must have been used for its solvent properties and must also have been used at 100% strength, or in combination with other F-listed solvents (F001 through F005) so that the mixture comprised 100% RCRA-regulated solvents before use. From the existing data, it is not possible to determine the concentration of acetone, either alone or as part of a mixture, before it was used, so it cannot be determined whether the F003 HWN is applicable in this case.
PER-620-1H	67-64-1	Acetone	F003, U002	D001	0 to 39 lb (per HDT) – (waste stream was also buried in non-TRU trenches)	This waste stream comes from the PBF site where various SPERT reactor experiments were performed. This waste stream consists of paper, cloth, wood, resin, insulation, batteries, concrete, asphalt, and radioactive sources. This contaminant was shipped to the RWMC on rags and wipes used for cleanup. It is likely that this contaminant volatilized to a large extent before disposal. (HDT, pp. 2-99)	To meet the F003 listing the acetone must have been used for its solvent properties and must also have been used at 100% strength, or in combination with other F-listed solvents (F001 through F005) so that the mixture comprised 100% RCRA-regulated solvents before use. From the existing data, it is not possible to determine the concentration of acetone, either alone or as part of a mixture, before it was used, so it cannot be determined whether the F003 HWN is applicable in this case.
PER-620-1H	7440-47-3	Chromium	N/A	D007	0 to 1 lb (per HDT) – (waste stream was also buried in non-TRU trenches)	This waste stream comes from the PBF site where various SPERT reactor experiments were performed. This waste stream consists of paper, cloth, wood, resin, insulation, batteries, concrete, asphalt, and radioactive sources. (HDT, pp. 2-100)	Chromium can be characteristic, but is not a listed waste. No shipments containing chromium were identified as sent to the RFP TRU pits.

Table 2. (continued).

Waste Streams	CAS #	Nonradiological Contaminants	Contaminant Found on List ^a (F, K, P, U)	Potential Characteristic Hazardous Waste Number	Estimated Quantity of Contaminant	Process for Use and Generation of Contaminant	Comments and Conclusions
PER-620-1H	302012	Hydrazine	U133	D001	0 to 3.9 lb (per HDT) – (waste stream was also buried in non-TRU trenches)	This waste stream comes from the PBF site where various SPERT reactor experiments were performed. This waste stream consists of paper, cloth, wood, resin, insulation, batteries, concrete, asphalt, and radioactive sources. The contaminant consisted of liquid absorbed on rags. (HDT, Appendix B, p. PER-21)	Because there is insufficient information about this waste stream to determine source and how this contaminant was used, it is not possible to determine whether it should be listed.
PER-620-1H	7439-92-1	Lead	N/A	D008	0 to 2,000 lb (per HDT) – (waste streams were also buried in non-TRU trenches)	Lead was identified as being buried in all of the RFP TRU pits. In addition, lead was reported in more shipments than any other contaminant. Lead came in the form of shielding, bricks, and scrap metal (mostly). (HDT)	Lead can be potentially hazardous, but is not a listed waste. If lead were being used as shielding within the containers, it would not be regulated as a hazardous waste as long as it continues that function.
PER-620-1H	7440-22-4	Silver	N/A	D011	0 to 10 lb (per HDT) – (waste stream was also buried in non-TRU trenches)	This waste stream comes from the PBF site where various SPERT reactor experiments were performed. This waste stream consists of paper, cloth, wood, resin, insulation, batteries, concrete, asphalt, and radioactive sources. (HDT, Appendix B, p. PER-21)	Silver can be characteristic, but is not a listed waste. No shipments containing silver were identified as going to the RFP TRU pits.
PER-620-1H	108-88-3	Toluene	F005, U220	D001	0 to 23.4 lb (per HDT) – (waste stream was also buried in non-TRU trenches)	This waste stream comes from the PBF site where various SPERT reactor experiments were performed. This waste stream consists of paper, cloth, wood, resin, insulation, batteries, concrete, asphalt, and radioactive sources. (HDT, Appendix B, p. PER-21)	Because there is insufficient information about this waste stream to determine source and how this contaminant was used, it is not possible to determine whether it should be listed. Available information indicates that the contaminant was shipped on rags and wipes from a cleanup operation, thus indicating it was not a discarded chemical product (i.e., U-code would not apply).

Table 2. (continued).

Waste Streams	CAS #	Nonradiological Contaminants	Contaminant Found on List ^a (F, K, P, U)	Potential Characteristic Hazardous Waste Number	Estimated Quantity of Contaminant	Process for Use and Generation of Contaminant	Comments and Conclusions
PER-620-1H	71-55-6	1,1,1-trichloroethane	F001, F002	N/A	0 to 15.6 lb (per HDT) – (waste stream was also buried in non-TRU trenches)	This waste stream comes from the PBF site. PBF was the site of various SPERT reactor experiments. This waste stream consists of paper, cloth, wood, resin, insulation, batteries, concrete, asphalt, and radioactive sources. This contaminant was shipped to the RWMC on rags and wipes used for cleanup. It is likely that this contaminant volatilized to a large extent before disposal. (HDT, p. 2-99)	It cannot be determined from the available process information whether the rags and wipes contain a used solvent (1,1,1-trichloroethane). The presence of 1,1,1-trichloroethane on rags and wipes is not enough to justify the application of the F001 or F002 HWNs.
PER-ORM-1H	67-64-1	Acetone	F003, U002	D001	0 to 39 lb (per HDT) – (waste stream was also buried in non-TRU trenches)	This waste stream comes from the PBF site. PBF was the site of various SPERT reactor experiments. This waste stream consists of paper, cloth, wood, barrels of Santo-R wax, and empty barrels. Waste is from OMRE reactor. This contaminant was shipped to the RWMC on rags and wipes used for cleanup. It is likely that this contaminant volatilized to a large extent before disposal. (HDT, p. 2-99)	To meet the F003 listing the acetone must have been used for its solvent properties and must also have been used at 100% strength, or in combination with other F-listed solvents (F001 through F005) so that the mixture comprised 100% RCRA-regulated solvents before use. From the existing data, it is not possible to determine the concentration of acetone, either alone or as part of a mixture, before it was used so it cannot be determined whether the F003 HWN is applicable in this case.
PER-ORM-1H	7440-36-0	Antimony	K021	N/A	0 to 1 lb (per HDT) – (waste stream was also buried in non-TRU trenches)	This waste stream comes from the PBF site. PBF was the site of various SPERT reactor experiments. This waste stream consists of paper, cloth, wood, barrels of Santo-R wax, and empty barrels. Waste is from OMRE reactor. No information is available on how this contaminant was generated or used in the processes. (HDT, p. 2-99)	Antimony can be a listed waste if it is aqueous spent antimony catalyst waste from fluoromethanes production, which this is not. The K021 HWN would not apply in this case.

Table 2. (continued).

Waste Streams	CAS #	Nonradiological Contaminants	Contaminant Found on List ^a (F, K, P, U)	Potential Characteristic Hazardous Waste Number	Estimated Quantity of Contaminant	Process for Use and Generation of Contaminant	Comments and Conclusions
PER-ORM-1H	108-88-3	Toluene	F005, U220	D001	0 to 390 lb (per HDT) – (waste stream was also buried in non-TRU trenches)	This waste stream comes from the PBF site. PBF was the site of various SPERT reactor experiments. This waste stream consists of paper, cloth, wood, barrels of Santo-R wax, and empty barrels. Waste is from OMRE reactor. This contaminant was shipped to the RWMC on rags and wipes used for cleanup. It is likely that this contaminant volatilized to a large extent before disposal. (HDT, p. 2-99)	Because there is insufficient information about this waste stream to determine source and how this contaminant was used, it is not possible to determine whether it should be listed as an F005 solvent. Available information indicates that the contaminant was shipped on rags and wipes from a cleanup operation; thus, indicating it was not a discarded chemical product (i.e., U-code would not apply).
PER-ORM-1H	79-01-6	Trichloroethylene	F001, F002, U228	D040	0 to 390 lb (per HDT) – (waste stream was also buried in non-TRU trenches)	This waste stream comes from the PBF site. PBF was the site of various SPERT reactor experiments. This waste stream consists of paper, cloth, wood, barrels of Santo-R wax, and empty barrels. Waste is from OMRE reactor. This contaminant was shipped to the RWMC on rags and wipes used for cleanup. It is likely that this contaminant volatilized to a large extent before disposal. (HDT, p. 2-99)	It cannot be determined from the available process information whether the rags and wipes contain a used solvent (toluene). The presence of toluene on rags and wipes is not enough to justify the application of the F005 HWN. Available information indicates that the contaminant was shipped on rags and wipes from a cleanup operation, thus indicating it was not a discarded chemical product (i.e., U-code would not apply).

Table 2. (continued).

Waste Streams	CAS #	Nonradiological Contaminants	Contaminant Found on List ^a (F, K, P, U)	Potential Characteristic Hazardous Waste Number	Estimated Quantity of Contaminant	Process for Use and Generation of Contaminant	Comments and Conclusions
PER-ORM-1H	1330-20-7	Xylene	F003, U239	D001	0 to 780 lb (per HDT) – (waste stream was also buried in non-TRU trenches)	This waste stream comes from PBF. PBF was the site of various SPERT reactor experiments. This waste stream consists of paper, cloth, wood, barrels of Santo-R wax, and empty barrels. Waste is from OMRE reactor. This contaminant was shipped to the RWMC on rags and wipes used for cleanup. It is likely that this contaminant volatilized to a large extent before disposal. (HDT, pp. 2-99)	To meet the F003 listing the xylene must have been used for its solvent properties and must also have been used at 100% strength, or in combination with other F-listed solvents (F001 through F005) so that the mixture comprised 100% RCRA-regulated solvents before use. From the existing data, it is not possible to determine the concentration of xylene, either alone or as part of a mixture, before it was used, so it cannot be determined whether the F003 HWN is applicable in this case. Available information indicates that the contaminant was shipped on rags and wipes from a cleanup operation, thus indicating it was not a discarded chemical product (i.e., U-code would not apply).
TAN-607-3H	7439-92-1	Lead	N/A	D008	No estimate (per HDT) – (waste streams were also buried in non-TRU trenches)	Lead was identified as being buried in all of the RFP TRU pits. In addition, lead was reported in more shipments than any other contaminant. Lead came in the form of shielding, bricks, and scrap metal (mostly). (HDT)	Lead can be potentially hazardous, but is not a listed waste. If lead were being used as shielding within the containers, it would not be regulated as a hazardous waste as long as it continues that function.
TAN-607-4H	7439-92-1	Lead	N/A	D008	Unknown (per HDT) – (waste streams were also buried in non-TRU trenches)	Lead was identified as being buried in all of the RFP TRU pits. In addition, lead was reported in more shipments than any other contaminant. Lead came in the form of shielding, bricks, and scrap metal (mostly). (HDT)	Lead can be potentially hazardous, but is not a listed waste. If lead were being used as shielding within the containers, it would not be regulated as a hazardous waste as long as it continues that function.

Table 2. (continued).

Waste Streams	CAS #	Nonradiological Contaminants	Contaminant Found on List ^a (F, K, P, U)	Potential Characteristic Hazardous Waste Number	Estimated Quantity of Contaminant	Process for Use and Generation of Contaminant	Comments and Conclusions
TAN-607-5H	7439-92-1	Lead	N/A	D008	Unknown (per HDT) – (waste streams were also buried in non-TRU trenches)	Lead was identified as being buried in all of the RFP TRU pits. In addition, lead was reported in more shipments than any other contaminant. Lead came in the form of shielding, bricks, and scrap metal (mostly). (HDT)	Lead can be potentially hazardous, but is not a listed waste. If lead were being used as shielding within the containers, it would not be regulated as a hazardous waste as long as it continues that function.
TAN-633-4H	7440-47-3	Chromium	N/A	D007	Unknown – estimate small (per HDT) (waste stream was also buried in non-TRU trenches)	The waste stream consists of metallurgical samples and specimens from the examination of the ML-1, PM-2A, and the 2 SNAPTRAN systems. Filters are also included. TAN-633 is the Hot Cell Annex. (HDT, Appendix B, p. TAN-140)	Chromium can be characteristic, but is not a listed waste. No shipments containing chromium were identified as sent to the RFP TRU pits.
TAN-633-4H	11135-81-2	Sodium potassium alloy	N/A	D003	0 to 360 grams (per HDT) – (waste stream was also buried in non-TRU trenches)	The waste stream consists of metallurgical samples and specimens from the examination of the ML-1, PM-2A, and the 2 SNAPTRAN systems. Filters are also included. TAN-633 is the Hot Cell Annex. (HDT, Appendix B, p. TAN-140)	Sodium potassium can be suspect hazardous (especially reactive if metallic), but is not a listed waste. There is not enough information available to determine whether this waste stream would be reactive (i.e., D003).
TRA-603-15H	7440-41-7	Beryllium/beryllium oxide	P015	N/A	0 to 1,473.4 kg (per HDT) – (waste stream was also buried in non-TRU trenches)	The waste stream consists of metal (aluminum, stainless steel, zirconium, beryllium (including Be metal and BeO), and cadmium) from the MTR building. (HDT, Appendix B, p. TRA-273)	EPA listing is only for beryllium powder. This waste may be potentially hazardous, but would not meet the definition for listing. However, there is not enough information to make a definite determination.
TRA-603-24H	7664417	Ammonia	N/A	D003	0 to 777.5 kg (per HDT) – (waste stream was also buried in non-TRU trenches)	This waste stream consists of gas bottles (steel) from the MTR area. At least one of the bottles had ammonia. (HDT, Appendix B, p. TRA-593)	Ammonia is a hazardous chemical. The gas bottles could be reactive if they contain ammonia gas (D003)

Table 2. (continued).

Waste Streams	CAS #	Nonradiological Contaminants	Contaminant Found on List ^a (F, K, P, U)	Potential Characteristic Hazardous Waste Number	Estimated Quantity of Contaminant	Process for Use and Generation of Contaminant	Comments and Conclusions
TRA-603-26H	7439-92-1	Lead	N/A	D008	0 to 137,617 kg (per HDT) – (waste streams were also buried in non-TRU trenches)	Lead was identified as being buried in all of the RFP TRU pits. In addition, lead was reported in more shipments than any other contaminant. Lead came in the form of shielding, bricks, and scrap metal (mostly). (HDT)	Lead can be potentially hazardous, but is not a listed waste. If lead were being used as shielding within the containers, it would not be regulated as a hazardous waste as long as it continues that function.
TRA-653-1H	8032-32-4	Benzine (Ligroin)	N/A	D001	0 to 4 kg (per HDT) – (waste stream was also buried in non-TRU trenches)	This waste stream is identified as benzene (known as ligroin, a highly flammable liquid; toxic if ingested or inhaled). This contaminant is probably in a polystyrene bottle (0.0038 gal). (HDT, Appendix B, p. TRA-781)	This contaminant does not show up on any of the listed waste tables. However, benzene may be flammable and potentially toxic.
	7440-43-9	Cadmium	N/A	D006		At least one waste stream showed this contaminant as a constituent, but the shipping paper documentation did not show any shipments to RFP TRU pits from non-RFP generators.	
	3251-23-8	Copper nitrate	N/A	D001		At least one waste stream showed this contaminant as a constituent, but the shipping paper documentation did not show any shipments to RFP TRU pits from non-RFP generators.	
	60-29-7	Ether	F003, U117	D001		At least one waste stream showed this contaminant as a constituent, but the shipping paper documentation did not show any shipments to RFP TRU pits from non-RFP generators.	
	7580-67-8	Lithium hydride	N/A	D003		At least one waste stream showed this contaminant as a constituent, but the shipping paper documentation did not show any shipments to RFP TRU pits from non-RFP generators.	

Table 2. (continued).

Waste Streams	CAS #	Nonradiological Contaminants	Contaminant Found on List ^a (F, K, P, U)	Potential Characteristic Hazardous Waste Number	Estimated Quantity of Contaminant	Process for Use and Generation of Contaminant	Comments and Conclusions
	7439-97-6	Mercury	U151	D009		At least one waste stream showed this contaminant as a constituent, but the shipping paper documentation did not show any shipments to RFP TRU pits from non-RFP generators.	
	7440-23-5	Sodium	N/A	D003		At least one waste stream showed this contaminant as a constituent, but the shipping paper documentation did not show any shipments to RFP TRU pits from non-RFP generators.	
	7664-93-9	Sulfuric acid	N/A	D002		At least one waste stream showed this contaminant as a constituent, but the shipping paper documentation did not show any shipments to RFP TRU pits from non-RFP generators.	
	10102064	Uranyl nitrate	N/A	D001		At least one waste stream showed this contaminant as a constituent, but the shipping paper documentation did not show any shipments to RFP TRU pits from non-RFP generators.	

a. Does not imply that the contaminant will be a listed waste, only that there could be the potential for listing

CAS = Chemical Abstract Services
EPA = U.S. Environmental Protection Agency
HDT = Historical Data Task (LIMITCO 1995)
HWN = hazardous waste number
ICPP = Idaho Chemical Processing Plant
MTR = Materials Test Reactor
N/A = Not applicable (i.e., not found on EPA lists or tables)
OMRE = Organic-Moderated Reactor Experiment
PBF = Power Burst Facility
RFP = Rocky Flats Plant
RWMC = Radioactive Waste Management Complex
SPERT = Special Power Excursion Reactor
TRU = transuranic

4. SUMMARY

The available information obtained during this evaluation is sufficient to develop general conclusions about the presence of suspect non-RFP listed and characteristic waste and other suspect hazardous waste collocated with RFP TRU waste. In many cases, it is also possible to determine the specific location of this waste.

The original shipment documents are the best source of burial location data, but do not always contain extensive constituent data. The HDT has extensive constituent data, but no burial-location data. The results are based, in general, on explicit mention of a contaminant in the shipment documentation. In this case, a specific burial location can be determined. In addition, it is clear from the HDT that other listed and characteristic hazardous waste has been buried in the SDA. However, it has not always been possible to determine whether or not these contaminants have been buried in the RFP TRU pits. There are cases where a contaminant may be in a RFP TRU pit because a waste stream was being generated during the time frame a RFP TRU pit was accepting waste; however, this was not considered as sufficient to include all contaminants associated with the waste stream with that RFP TRU pit.

The volume of suspect listed and characteristic hazardous waste buried in the RFP TRU pits cannot, however, be definitively determined from the data available. Total volumes of these contaminants can be obtained from the HDT for the SDA as a whole, but not for individual pits and trenches. The presence and extent of these contaminants in the RFP TRU pits can, in general, be inferred from the number of pits in which a contaminant was buried, based on shipment document description and the number of shipments containing the contaminant. Waste stream definition from the HDT indicates other suspect listed and hazardous waste have been buried in the RFP TRU pits, but the shipment documentation is insufficient to identify the specific pit or trench used for disposal.

The results are summarized in Table 2. Table 2 shows pits containing RFP TRU waste where suspect listed or characteristic waste has been buried, the potential hazardous waste numbers (HWNs) that apply, and the associated rationale for potential assignment of the HWNs. It is concluded that a number of potential listed waste streams are associated with the non-RFP waste streams that are commingled or collocated with the RFP TRU waste streams. An even larger number of waste streams associated with potential characteristic waste codes were identified.

Based on the evaluation presented in Table 2, the potential listed HWNs associated with the non-RFP waste streams evaluated in this report are halogenated and nonhalogenated F-listed solvents. The specific HWNs identified as potentially applicable are F001, F002, F003, and F005. For some waste streams, listed HWNs for discarded commercial chemical products, off-specification species, container residues, and spill residues (i.e., P and U codes) were also identified and evaluated in Table 2. In general, no specific process information was identified to indicate that any of the P or U codes would apply to the associated waste streams. For example, no information was identified that would indicate the chemicals associated with the waste streams were unused commercial chemical products that were discarded. The information available indicated that the chemicals were used in some manner as part of the waste generation process (e.g., as solvents), which would eliminate the application of the P or U codes. Thus, without specific information indicating otherwise, the P and U codes are not identified as potential HWNs for the subject waste streams evaluated in this report.

The characteristic HWNs that potentially apply to the subject waste streams include the following:

- D001 (ignitability)
- D002 (corrosivity)
- D003 (reactivity).

Specific contaminants that may be present above the maximum concentrations to exhibit the toxicity characteristic include the following:

- D006 (cadmium)
- D007 (chromium)
- D008 (lead)
- D011 (silver)
- D018 (benzene)
- D019 (carbon tetrachloride)
- D035 (methyl ethyl ketone)
- D040 (trichloroethylene).

Assignment of the D-codes may be done based on process knowledge, but is generally based on actual testing of the waste. The exception to this general rule is for determination of reactivity. Thus, while the presence of the contaminants listed above does indicate a potential for assignment of a D-code to one of the associated waste streams, actual testing of the waste is necessary to make a definitive conclusion. Of those contaminants listed, lead is associated with the largest number of waste streams and will likely apply to at least a portion of the waste in the event that the waste is generated and the specified testing is performed.

In many cases, process-related details and records, on which this evaluation was based, are insufficient to support a definitive conclusion about assignment of RCRA hazardous waste numbers. Consequently, all hazardous waste numbers are identified only as “potential” in this report. Further review of detailed facility records about the associated waste generation processes, when available, would be necessary to support more definitive conclusions. Performance of detailed research activities and associated reviews is beyond the scope of this task, but will be performed as part of a separate task to develop AK documentation for various waste streams within the SDA.

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Appendix A

Waste Stream Evaluation Summary by Waste Stream, Disposal Location, and Contaminant

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Appendix A

Waste Stream Evaluation Summary by Waste Stream, Disposal Location, and Contaminant

A-1. RESULTS BY WASTE STREAM

In many cases, it was not possible to unambiguously assign a shipment to a single waste stream. The waste stream description may be insufficient to accurately assign the shipment to a waste stream, or the shipment may consist of waste that may belong to more than one waste stream. However, shipments were assigned to a single waste stream for categorization and display purposes. The waste stream information was used primarily to help identify which shipments could contain suspect hazardous contaminants when shipment descriptions alone were not sufficient. The waste associated with shipments in this section may not make up the entirety of the waste stream, as some of the waste stream may have been disposed at locations outside the RFP TRU pits. In addition, some shipment records were found to contain suspect hazardous contaminants that did not appear to agree with HDT waste stream definitions.

The waste streams in this section include only the waste streams listed in the HDT that originated at a source that sent waste for disposal in a RFP TRU pit. For example, if any shipment originated at CPP-601 and was buried in a RFP TRU pit, then all waste streams from CPP-601 are covered in this section even if there does not appear to be a shipment sent to a RFP TRU pit associated with each waste stream from CPP-601. The additional waste streams were included so that all information from the HDT concerning nonradiological contaminants from sources with waste buried in the RFP TRU pits could be included in the document.

A-1.1 Argonne National Laboratory–West

The mission of Argonne National Laboratory–West has been the research and development of liquid metal cooled reactors and advanced nuclear power plant technology. The major facilities at Argonne National Laboratory–West were the Experimental Breeder Reactor–II (EBR-II), the Transient Reactor Test Facility, the Zero Power Physics Reactor, the Hot Fuel Examination Facility, the Fuel Cycle Facility, and the Fuel Manufacturing Facility.

Waste streams originating from Argonne National Laboratory–West are discussed in the following subsections.

A-1.1.1 ANL-EBR-1H

Description: This waste stream consists of other core and reactor vessel components and miscellaneous waste from the EBR-1-601 reactor building and annex.

Disposal dates: 1958–1963

Waste stream volume: 167.5 m³

Nonradiological contaminants in HDT: Asbestos (1959)

No shipments to the RFP TRU pits were found for this waste stream.

A-1.1.2 ANL-601

Description: No waste stream from the HDT could be identified for shipments from this source.

Disposal dates: NA

Waste stream volume: NA

Nonradiological contaminants in HDT: NA

Shipments with shipment document IDs indicating ANL-601 as the source of the waste were sent to the RFP TRU pits, but these shipments did not appear to contain suspect hazardous contaminants. The shipments could possibly be identified with Experimental Breeder Reactor-I or EBR-II, as both these facilities have been associated with the number ANL-601.

A-1.1.3 ANL-765-1H

Description: This is “dry, active waste” routinely generated in facility monitoring, operation, and maintenance. It is also called general plant waste. The Fuel Conditioning Facility is designated as ANL-765. Shipments from ANL-765-1H shipments with suspect hazardous contaminants are listed in Table A-1.

Disposal dates: 1966–1983

Waste stream volume: 1,815 m³

Nonradiological contaminants in HDT: Lead (1962–1983), asbestos (1966–1983)

Table A-1. Waste stream ANL-765-1H shipments with suspect hazardous contaminants.

Pit	Contaminant	Shipping Document Identification Number and Shipment Description	Burial Location
10	Asbestos	ANL711SR002/03/70800/ Metal, plastic, asbestos (unknown isotope <0.001 Ci)	385 ft west and 10 ft south of northeast monument
10	Lead	ANL717SR005/24/711505/ steel jacket lead-lined, steel extension casting (casing), steel base plate for cask (MFP 5.00E-03 Ci)	260 ft west and 90 ft south of northeast monument

MFP = mixed fission product

A-1.1.4 ANL-765-2H

Description: This waste stream is Fuel Conditioning Facility hot cell waste. It includes subassembly hardware from nuclear fuel and material experiments, gloves, coveralls, plastic, and sample materials.

Disposal dates: 1977–1983

Waste stream volume: 12.32 m³

Nonradiological contaminants in HDT: Lead (1977–1983)

No shipments to the RFP TRU pits were found for this waste stream.

A-1.1.5 ANL-767-1H

Description: This is “dry, active waste” routinely generated in facility monitoring, operation, and maintenance. It is also called general plant waste. The EBR-II-601 reactor plant is designated as ANL-767. Shipments from ANL-676-1H shipments with suspect hazardous contaminants are listed in Table A-2.

Additional Sources: ANL-720, ANL-793, ANL-EBR-II

Disposal dates: 1962–1971

Waste stream volume: 650 m³

Nonradiological contaminants in HDT: None

Table A-2. Waste stream ANL-767-1H shipments with suspect hazardous contaminants.

Pit	Contaminant	Shipping Document Identification Number and Shipment Description	Disposal Location
P5	Lead	ANL767SR004/18/66110/ Metal shear station in lead-lined wooden box (unknown isotope, 0.5 Ci)	110 ft north of the southwest monument
P5	Lead	ANL767SR006/30/66130/ Steel and iron machine parts in lead-lined wooden box 50 × 32 × 40 ft (MFP, 10 Ci)	140 ft north of the southwest monument

MFP = mixed fission product

A-1.1.6 ANL-711

Description: No waste stream from the HDT could be identified for shipments from this source.

Disposal dates: NA

Waste stream volume: NA

Nonradiological contaminants in HDT: NA

Shipments with shipment document IDs indicating ANL-711 as the waste source were sent to the RFP TRU pits. One shipment with shipment document ID ANL711 was assigned to waste stream ANL-765-1H because it contained asbestos with a shipment date consistent with asbestos-generation dates for that waste stream.

A-1.1.7 ANL-717

Description: No waste stream from the HDT could be identified for shipments from this source.

Disposal dates: NA

Waste stream volume: NA

Nonradiological contaminants in HDT: NA

Shipments with shipment document IDs indicating ANL-717 as the source of the waste were sent to the RFP TRU pits. One shipment with shipment document ID ANL717 was assigned to waste stream ANL-765-1H because it contained lead with a shipment date consistent with lead-generation dates for that waste stream.

A-1.1.8 ANL-750

Description: No waste stream from the HDT could be identified for shipments from this source.

Disposal dates: NA

Waste stream volume: NA

Nonradiological contaminants in HDT: NA

Shipments with shipment document IDs indicating ANL-750 as the source of the waste were sent to the RFP TRU pits, but these shipments did not appear to contain suspect hazardous contaminants.

A-1.1.9 ANL-756

Description: No waste stream from the HDT could be identified for shipments from this source.

Disposal dates: NA

Waste stream volume: NA

Nonradiological contaminants in HDT: NA

Shipments with shipment document IDs indicating ANL-756 as the source of the waste were sent to the RFP TRU pits, but these shipments did not appear to contain suspect hazardous contaminants.

A-1.2 Auxiliary Reactor Area

The Auxiliary Reactor Area (ARA) was called the Army Reactor Area until 1965 when U.S. Army programs at the Idaho National Engineering Laboratory (i.e., predecessor to the INEEL) were phased out. The ARA was built to house the SL-1 Reactor, the Army Gas-Cooled Reactor Experiment, and the Mobile Low Power Reactor No. 1 (ML-1). By the mid-1980s, the deactivation and decommissioning of some facilities was underway, and the other facilities were essentially closed. The HDT stated that nonradiological contaminants from ARA were not buried in the SDA, however, the shipping documents indicated that there was some lead and asbestos buried in the RFP TRU pits.

A-1.2.1 ARA-601-1H

Description: This waste stream is waste from the SL-1 Reactor cleanup. It consists of a 1,000-gal tank, a demineralizer with resin, pipes, soil, wire, concrete, insulation, and various building materials.

Disposal dates: 1960–1965

Waste stream volume: 885.5957 m³

Nonradiological contaminants in HDT: None

Shipments assigned to this waste stream appear to have been sent to the RFP TRU pits; however, no shipments with suspect hazardous contaminants were identified.

A-1.2.2 ARA-602-2H

Description: This waste stream consists of low levels of items listed as “scrap” and “rad waste not otherwise specified (NOS),” which were taken from the ML-1 Reactor site during cleanup.

Disposal dates: 1965–1966

Waste stream volume: 79.942 m³

Nonradiological contaminants in HDT: None

Shipments assigned to this waste stream appear to have been sent to the RFP TRU pits; however, no shipments with suspect hazardous contaminants were identified.

A-1.2.3 ARA-602-3H

Description: This waste stream is hot cell waste consisting of some fuel residue, metals (including copper, cadmium, aluminum, and stainless steel), some soil, high-efficiency particulate air filters, and cleanup supplies. Shipments from ANL-602-3H shipments with suspect hazardous contaminants are listed in Table A-3.

Disposal dates: 1963–1977

Waste stream volume: 84.8767 m³

Nonradiological contaminants in HDT: None

Table A-3. Waste stream ARA-602-3H shipments with suspect hazardous contaminants.

Pit	Contaminant	Shipping Document Identification Number and Shipment Description	Burial Location
P2	Asbestos	ARA602SR004/16/6381020/ Cast iron ruptured water pump (unknown isotope, <1 µCi) (RWMIS content code: iron, asbestos)	1+00 ft east of west pit marker

RWMIS = Radioactive Waste Management Information System

A-1.2.4 ARA-608-1H

Description: This waste stream consists of a tank, pump, valves, gauges, wire scrap, metal, sludge NOS 1, concrete, masonry, asphalt, and gravel with less than 0.1 Ci UO₂.

Disposal dates: 1960–1982

Waste stream volume: 78.4 m³

Nonradiological contaminants in HDT: None

Shipments assigned to this waste stream appear to have been sent to the RFP TRU pits; however, no shipments with suspect hazardous contaminants were identified.

A-1.2.5 ARA-616-1H

Description: This waste stream is waste from the ML-1 Reactor and Army Gas-Cooled Reactor Experiment consisting of various scrap metals (i.e., stainless steel, silver, aluminum, iron, potassium, and lead), resin, burnables, sludge, and some boric acid crystals (see Table A-4).

Disposal dates: 1961–1966

Waste stream volume: 376.73 m³

Nonradiological contaminants in HDT: Lead

Table A-4. Waste stream ARA-616-1H shipments with suspect hazardous contaminants.

Pit	Contaminant	Shipping Document Identification Number and Shipment Description	Burial Location
P2	Lead	ARA616SR010/17/6280030/ Aluminum, stainless steel, lead, and rubber (unknown isotope, 0.05 Ci)	240 ft east of west pit marker

A-1.2.6 ARA-626-1H

Description: This waste stream consists of some fuel scraps, waste from disassembly, and hot cell waste.

Disposal dates: 1961–1963

Waste stream volume: 427.7 m³

Nonradiological contaminants in HDT: None

Shipments assigned to this waste stream appear to have been sent to the RFP TRU pits; however, no shipments with suspect hazardous contaminants were identified.

A-1.3 Central Facilities Area

The Central Facilities Area (CFA) operated as a centralized location to support other INEEL facilities. It included administrative support, service shops, sanitary landfill, warehousing, security support, laundry services, training, medical services, and receiving and storage. The HDT stated that nonradiological contaminants from CFA were not routinely buried in the SDA.

A-1.3.1 CFA-601-1H

Description: This waste stream consists of evaporated salts, miscellaneous waste solids (e.g., high-efficiency particulate air filters, paper wipes, soil, aluminum, glass, lead batteries, cadmium, graphite molds and crucibles, small tools, and casting residues), sometimes contaminated with beryllium and beryllium oxide, which were placed in plastic bags and sometimes added to the boxes or drums containing the salt waste; and general cleanup waste. Shipments from CFA-601-1H shipments with suspect hazardous contaminants are shown in Table A-5.

Disposal dates: 1966–1974

Waste stream volume: 34.438 m³

Nonradiological contaminants in HDT: Beryllium

Table A-5. Waste stream CFA-601-1H shipments with suspect hazardous contaminants

Pit	Contaminant	Shipping Document Identification Number and Shipment Description	Burial Location
P10	Lead	CFA601SR011/05/70800/ Lead pipe heater, pumps, tension tester (MFP, 0.001 Ci)	300 ft west and 60 ft south of northeast monument
P4	?	CFA601SR005/05/661/ Batteries, turbine, camera lens, paint cans (unknown isotope, 0.1 Ci) (Batteries may imply the presence of lead or mercury.)	315 ft west and 35 ft north of southeast monument

A-1.3.2 CFA-633-1H

Description: This waste stream consists of trash, metal, wood, gravel, and sand (see Table A-6). The Health Physics Instrument Laboratory is designated as CFA-633.

Disposal dates: 1963–1974

Waste stream volume: 14.02 m³

Nonradiological contaminants in HDT: Lead (1963–1970), beryllium (1966)

Table A-6. Waste stream CFA-633-1H shipments with suspect hazardous contaminants.

Pit	Contaminant	Shipping Document Identification Number and Shipment Description	Burial Location
P4	Beryllium oxide	CFA633SR006/23/662/ About 10 gal of water containing a small amount of beryllium oxide. Vermiculite was added to absorb the water.	305 ft west of the southeast monument
P4	Lead?	CFA633SR005/06/661/ Contaminated plastic glovebox (MFP, 0.03 Ci) (Glovebox implies the possible presence of lead)	315 ft west and 35 ft north of southeast monument

MFP = mixed fission product

A-1.3.3 CFA-654-1H

Description: This waste stream consists of scrap metals (e.g., steel, beryllium, and lead), zirconium, depleted uranium, sewer sludge, machine coolant, two radium sources, weeds, and combustibles (e.g., paper and rags). The Old Craft Shop is designated as CFA-654. Table A-7 lists shipments with suspect hazardous contaminants from CFA-654-1H.

Disposal dates: 1962–1970

Waste stream volume: 50.37 m³

Nonradiological contaminants in HDT: Lead (1965), beryllium (1970), zirconium (1968)

Table A-7. Waste stream CFA-654-1H shipments with suspect hazardous contaminants.

Pit	Contaminant	Shipping Document Identification Number and Shipment Description	Burial Location
P9	Lead	CFA654SR005/12/6980020/ Contaminated lead (MFP, 0.001 Ci)	105 ft south of northeast monument

MFP = mixed fission product

A-1.3.4 CFA-665-1H

Description: This waste stream consists of two truck beds, three trailers, one forklift, one straddle carrier, some tires and wheels, an air compressor, and some wood. The Equipment Repair Building is designated as CFA-665.

Disposal dates: 1968–1976

Waste stream volume: 83.89 m³

Nonradiological contaminants in HDT: None

Shipments assigned to this waste stream appear to have been sent to the RFP TRU pits; however, no shipments with suspect hazardous contaminants were identified.

A-1.3.5 CFA-669-1H

Description: This waste stream consists of combustibles (e.g., rags, paper, wood, cloth, and dirt). The old CFA Laundry is designated as CFA-669.

Disposal dates: 1960–1982

Waste stream volume: 772.552 m³

Nonradiological contaminants in HDT: None

Shipments assigned to this waste stream appear to have been sent to the RFP TRU pits; however, no shipments with suspect hazardous contaminants were identified.

A-1.3.6 CFA-674-1H

Description: This waste stream consists of laboratory waste contaminated with P-32, U-235, and U-236. It consists of excess property (e.g., furniture, machinery, valves, boxes, wire, noses, and filters) and combustible waste. CFA-674 is a warehouse.

Disposal dates: 1961–1965

Waste stream volume: 26.19 m³

Nonradiological contaminants in HDT: None

Shipments assigned to this waste stream appear to have been sent to the RFP TRU pits; however, no shipments with suspect hazardous contaminants were identified.

A-1.3.7 CFA-683-1H

Description: This waste stream consists of a contaminated crane, two pickups, tanker, trailer, traveler wheels, scrap metal, and some wood.

Disposal dates: 1971–1973

Waste stream volume: 74.8 m³

Nonradiological contaminants in HDT: None

Shipments assigned to this waste stream appear to have been sent to the RFP TRU pits; however, no shipments with suspect hazardous contaminants were identified.

A-1.3.8 CFA-687-1H

Description: This waste stream consists of scrap metal and lead. The old Lead Shop is designated as CFA-687. Table A-8 lists shipments with suspect hazardous contaminants from CFA-687-1H.

Disposal dates: 1964–1980

Waste stream volume: 22.74 m³

Nonradiological contaminants in HDT: Lead (1964–1980)

Table A-8. Waste stream CFA-687-1H shipments with suspect hazardous contaminants.

Pit	Contaminant	Shipping Document Identification Number and Shipment Description	Burial Location
P4	Lead	CFA687SR008/16/661/ Lead slag and sand (unknown isotope, <0.001 Ci)	300 ft west of the southeast monument

A-1.3.9 CFA-690-1H

Description: This waste stream consists of combustibles, animal carcasses and feces, scrap metal, sources, sand, and gravel. The Radiological/Environmental Laboratory is designated as CFA-690. Table A-9 lists shipments with suspect hazardous contaminants from CFA-690-1H.

Disposal dates: 1960–1981

Waste stream volume: 451.5 m³

Nonradiological contaminants in HDT: Zirconium (1969)

Table A-9. Waste stream CFA-690-1H shipments with suspect hazardous contaminants.

Pit	Contaminant	Shipping Document Identification Number and Shipment Description	Burial Location
P2	Mercury	CFA690SR010/11/6281000/ mercury batteries	300 ft east of west pit marker
P10	Lead	CFA690SR003/17/70800/ Steel box and frame with lead shielding (MFP, 0.001 Ci)	360 ft west and 20 ft south of northeast monument
P4	Perchloric acid residue	CFA690SR008/22/67800/ Six each chemical hoods approx 7 ft high × 3 ft deep × 5 ft long. One located in rooms 22 and 24 of CF646: perchloric residue, not suitable for surplus per J. White 8/21/67 (unknown isotope, 0.001 Ci)	15 to 20 ft west of southeast monument

MFP = mixed fission product

A-1.4 Chemical Processing Plant

The primary purpose of ICPP (i.e., renamed the Idaho Nuclear Technology Engineering Center) was to recover U-235 from expended military and test reactor fuel. In the early 1960s, a fluidized calciner was constructed and operated to convert the highly radioactive waste resulting from processing of fuel to a granular solid. Most of the waste remains stored at the facility; however, several processes produced waste that was sent to the SDA for burial.

A-1.4.1 CPP-601-1H

Description: This waste stream consists of leached vycor glass. The Fuel Process Building is designated as CPP-601.

Disposal dates: 1966–1970

Waste stream volume: 1.738 m³

Nonradiological contaminants in HDT: None

No shipments to the RFP TRU pits were identified for this waste stream.

A-1.4.2 CPP-601-2H

Description: This waste stream consists of insulation, pipe, wire, wood, plastic, rags, and concrete. It is primarily in the form of insulation covering pipe from the Waste Calcining Facility oil-fired heating system that circulated heated sodium potassium alloy. Corrosion in the pipes caused breaks that occasionally caused fires. Damaged pipe and insulation was buried in the RWMC. The Fuel Process Building is designated as CPP-601. Table A-10 lists shipments with suspect hazardous contaminants from CPP-601-2H.

Disposal dates: 1960–1970

Waste stream volume: 0.914 m³

Nonradiological contaminants in HDT: Asbestos (1960–1970)

Table A-10. Waste stream CPP-601-2H shipments with suspect hazardous contaminants.

Pit	Contaminant	Shipping Document Identification Number and Shipment Description	Burial Location
P5	Asbestos	CPP601SR008/20/66110/ Metal waste, insulation, paper, wood (MFP, 100 mCi) ^a	190 ft north and 40 ft east of southwest monument
P5	Asbestos	CPP601SR008/20/66210/ Metal, insulation, paper, and wood waste (MFP, 100 mCi) ^a	180 ft north and 40 ft east of southwest monument
P5	Asbestos	CPP601SR008/20/66310/ Metal, insulation, paper, and wood waste (unknown isotope, 100 mCi) ^a	180 ft north and 40 ft east of southwest monument
P9	Asbestos	CPP601SR008/23/68800101/ Trash, concrete, pipes, insulation (unknown isotope, <0.1 Ci) ^a	175 ft south and 5-20 ft west of northeast monument
P10	Sodium potassium alloy	CPP601SR005/07/708003000100/ NaK tube bundle, metal tube bundle WC-302 (MFP, 0.5 Ci)	320 ft west and 75 ft south of northeast monument

a. This waste may contain asbestos.
MFP = mixed fission product

A-1.4.3 CPP-601-3H

Description: This waste stream consists of dissolved fuel specimens. One shipment in 1969 contained fuel specimens dissolved in HF-HNO₃, which then reacted with plaster of Paris, which neutralized and solidified the acids. The Fuel Process Building is designated as CPP-601.

Disposal dates: 1969

Waste stream volume: 0.0568 m³

Nonradiological contaminants in HDT: None

No shipments to the RFP TRU pits were identified for this waste stream.

A-1.4.4 CPP-601-4H

Description: This waste stream consists of acidic aqueous liquid from CFA-674A pilot plant studies on ICPD dissolution and extraction. Tons of lime were added in the disposal pit to neutralize the acid. The HDT indicates the acid was probably buried in the Acid Pit and the containers buried in the trenches. The Fuel Process Building is designated as CPP-601.

Disposal dates: 1954–1970

Waste stream volume: 173,300 gal

Nonradiological contaminants in HDT: Nitric acid (1954–1970), Aluminum nitrate nonahydrate, uranyl nitrate, sodium nitrate, hydrofluoric acid, mercury nitrate nonhydrate, sulfuric acid, chromium, beryllium, copper nitrate

No shipments to the RFP TRU pits were identified for this waste stream.

A-1.4.5 CPP-601-5H

Description: This waste stream consists of organic solvents. Much of the waste in this waste stream came from CF674A, which was the pilot plant used to develop dissolution and extraction processes for ICPP. The waste was nonradioactive. The HDT indicated that the liquid was probably buried in the Acid Pit, chemical, or fluoride pits and the containers buried in the trenches. The waste solutions were released to the disposal pit as a free-flowing liquid. From the descriptions found in the HDT (Part C of the Data Input Table), it appears that the organic contaminants were all mixed together. The HDT also states that the organics may have been burned. The Fuel Process Building is designated as CPP-601. Table A-11 lists shipments with suspect hazardous contaminants from CPP-601-5H.

Disposal dates: 1954–1970

Waste stream volume: 4,763 gal

Nonradiological contaminants in HDT: Methyl isobutyl ketone, ethyl alcohol, tributyl phosphate, acetone, carbon tetrachloride

Table A-11. Waste stream CPP-601-5H shipments with suspect hazardous contaminants.

Pit	Contaminant	Shipping Document Identification Number and Shipment Description	Burial Location
P6	Acetone Methyl isobutyl ketone Ethyl alcohol Carbon tetrachloride	CPP601SR009/18/67810/ Miscellaneous used oils and solvents; 10 55-gal drums slightly surface-contaminated 100–300 counts (unknown isotope, 0.001 Ci) This waste appears to contain solvents perhaps all those noted for this work scope.	30 ft north and 30 ft east of the southeast monument

A-1.4.6 CPP-601-6H

Description: This waste stream consists of pipe, glass, gloves, cans, vessels, wire, valves, paper, metal, wood, clothing, filters, plastic bottles, and rubber. This waste stream is the catchall for the miscellaneous waste from all of ICPP. Table A-12 lists shipments with suspect hazardous contaminants from CPP-601-6H.

Additional Sources: CPP-602, CPP-603, CPP-630, and CPP-640

Disposal dates: 1960–1983

Waste stream volume: 21,710 m³

Nonradiological contaminants in HDT: None

Table A-12. Waste stream CPP-601-6H shipments with suspect hazardous contaminants.

Pit	Contaminant	Shipping Document Identification Number and Shipment Description	Burial Location
P4	Lead	CPP601SR012/15/66120/ Straw, lead, and junk (unknown isotope, <0.01 mCi)	225 ft west and 30 ft north of southeast monument
P5	Kerosene	CPP601SR008/30/66100/ Kerosene containing (MFP, <3 Ci)	10 ft east and 160 ft north of southwest monument
P5	Lead	CPP601SR011/22/66120/ Lead, concrete, and iron (unknown isotope, 0.18 Ci)	170 ft north and 30 ft west of southwest monument
P10	Gasoline	CPP601SR004/23/6980000/ Some gasoline left in tank. 250-gal gasoline tank. Potential fire hazard if spilled enroute	375 ft east and 40 ft south of northwest monument
P10	Lead	CPP601SR004/09/70800355/ Lead, wood, scrap material (MFP, 50 mCi)	355 ft west and 10 ft south of northeast monument
P10	Lead	CPP601SR004/20/70800505/ Lead, unreadable, scrap metal, obtained from calciner cleanup (unknown isotope, 2.31 Ci)	335 ft west and 55 ft south of northeast monument

MFP = mixed fission product

A-1.4.7 CPP-601-7H

Description: This waste stream consists of zirconium and zirconium-uranium alloy and excess metal scrap used for dissolution studies. Table A-13 lists shipments with suspect hazardous contaminants from CPP-601-7H.

Disposal dates: 1967

Waste stream volume: 11.75 m³

Nonradiological contaminants in HDT: Zirconium

Comment: The volume in RWMIS for these two shipments equals the volume of the waste stream.

Table A-13. Waste stream CPP-601-7H shipments with suspect hazardous contaminants.

Pit	Contaminant	Shipping Document Identification Number and Shipment Description	Burial Location
P9	Zirconium	CPP601SR009/22/67800200/ Scrap zirconium and zirconium alloy- miscellaneous shapes and sizes from large pieces to long thin strips (unknown isotope, 0.1 Ci)	180-210 ft north and 0-20 ft west of southeast monument
P9	Zirconium	CPP601SR009/22/67810200/ Zirconium scrap with some natural uranium (uranium, <0.1 Ci, 182 kg natural uranium)	150-180 ft north and 0-10 ft east of southwest monument

A-1.5 Naval Reactors Facility

The NRF was established in 1950 when construction began on the prototype power plant, S1W, for the U.S. Navy's first nuclear submarine. Two additional prototypes were constructed: A1W in 1957 and

S5G in 1965. The Expended Core Facility, built in 1958, was designed to receive irradiated naval reactor fuel, perform examination of the fuel elements, remove excess material from the fuel elements, and transfer the fuel elements to ICPP.

A-1.5.1 NRF-601-1H

Description: This waste stream consists of low-level-compactable and noncompactible waste from the operation of the S1W reactor and related activities. Most was probably particulates with occasional large metal valves or other reactor system components. Table A-14 lists shipments with suspect hazardous contaminants from NRF-601-1H.

Additional Sources: NRF-613

Disposal dates: 1960–1983

Waste stream volume: 2,942 m³

Nonradiological contaminants in HDT: None

Table A-14. Waste stream NRF-601-1H shipments with suspect hazardous contaminants.

Pit	Contaminant	Shipping Document Identification Number and Shipment Description	Burial Location
P6	Lead Asbestos	NRF601SR005/16/68800/ Contaminated iron, lead, asbestos, canvas, poly (unknown isotope, 10 mCi)	90-100 ft west and 35-45 ft north of the southeast monument
P6	Lead	NRF601SR006/19/68800/ Scrap valves and piping, washing machine, and lead bricks (Co-60, 50 mCi)	50 ft west and 30 ft north of the southeast monument
P10	Lead	NRF601SR010/21/68800/ Six wooden boxes and one pallet of contaminated waste; includes lead and poly plugs from S1W plant (unknown isotope, 12 mCi)	60 ft west and 65 ft north of southwest – 2 Monument
P10	Lead	NRF601SR006/26/69800/ Lead and Steel core coffin barrel (unknown isotope, 100 mCi)	330-350 ft east and 15-20 ft north of SW-2 monument
P10	Lead	NRF601SR001/22/70810/ Empty shipping containers constructed of lead and steel (unknown isotope, estimated maximum 10 mCi each cask, 70 mCi)	365 ft west and 15-45 south of northeast monument
P10	Zirconium	NRF601SR003/19/70830/ 12 neptunium foils, 12 U-235 foils, 12 plutonium foils, 750 uranium-zirconium wires, one U-235 foil, 12 U-235-strontium flux wires, one plutonium, aluminum foil (neptunium-plutonium, 1 Ci)	365 ft west and 45 ft south of northeast monument

A-1.5.2 NRF-610

Description: No waste stream from the HDT could be identified for shipments from this source.

Disposal dates: NA

Waste stream volume: NA

Nonradiological contaminants in HDT: NA

Shipments, with shipment document IDs indicating NRF-610 as the waste source, were sent to the RFP TRU pits, but these shipments did not appear to contain suspect hazardous contaminants.

A-1.5.3 NRF-617-1H

Description: This waste stream consists of low-level-noncompactible and compactable waste from the A1W Reactor operations and related activities. Most were probably particulates with an occasional large metal valve or other reactor system component.

Additional Sources: NRF-616, NRF-619, NRF-630, NRF-631, and NRF-636.

Disposal dates: 1960–1983

Waste stream volume: 3,092 m³

Nonradiological contaminants in HDT: None

Shipments assigned to this waste stream appear to have been sent to the RFP TRU pits; however, no shipments with suspect hazardous contaminants were identified.

A-1.5.4 NRF-617-2H

Description: This waste stream consists of lead and asbestos. Lead was shielding material in bricks and sheets. Asbestos was loose, friable, thermal insulation removed from piping. Table A-15 lists shipments with suspect hazardous contaminants from NRF-617-2H.

Additional Sources NRF-616, NRF-618, NRF-619, NRF-630, NRF-631, and NRF-636

Disposal dates: 1955–1983

Waste stream volume: Unknown

Nonradiological contaminants in HDT: Asbestos (1955–1983), lead (1955–1983)

Table A-15. Waste stream NRF-617-2H shipments with suspect hazardous contaminants.

Pit	Contaminant	Shipping Document Identification Number and Shipment Description	Burial Location
P10	Lead	NRF618SR007/08/71100/ Contaminated ducting, soil, and lead brick (Co-60, 1.00E-03 Ci)	270 ft west and 40 ft south of northeast monument
P10	Lead	NRF618SR007/28/70810/ Alpha box, scrap lumber from cell #10, lead bricks (unknown isotope, 0.005 Ci)	325 ft east and 50 ft south of northeast monument

A-1.5.5 NRF-618-1H

Description: This waste stream consists of dissolved Power Water Reactor fuel rods absorbed in vermiculite in poly bottles. The Expended Core Facility is designated as NRF-618. Table A-16 lists shipments with suspect hazardous contaminants from NRF-618-1H.

Disposal dates: 1960–1964

Waste stream volume: 5.5 m³

Nonradiological contaminants in HDT: Hydrofluoric acid

Table A-16. Waste stream NRF-618-1H shipments with suspect hazardous contaminants.

Pit	Contaminant	Shipping Document Identification Number and Shipment Description	Burial Location
P2	Hydrofluoric acid	NRF618SR008/21/6280015050/ Rags, blotting paper, dissolution waste absorbed in vermiculite-filled poly bottles (unknown isotope, 200 mCi). (It appears that this waste could contain hydrofluoric acid.)	465 ft west and 60 ft south of northeast pit marker

A-1.5.6 NRF-618-2H

Description: This waste stream consists of structural components from U.S. Navy core fuel bundles, end boxes, and other components. Table A-17 lists shipments with suspect hazardous contaminants from NRF-618-2H.

Disposal dates: 1955–1975

Waste stream volume: 427.3m³

Nonradiological contaminants in HDT: None

Table A-17. Waste stream NRF-618-2H shipments with suspect hazardous contaminants

Pit	Contaminant	Shipping Document Identification Number and Shipment Description	Burial Location
P4	Lead	NRF618SR001/19/67800/ Trolley hoist that is part of Capital Equipment Tag #A12064, 5 DP cells Tag #Z1016, Z1017, Z1034, and Z1040 and contaminated lead (unknown isotope, 1 mCi)	210 ft west and 40 ft north of southeast monument

A-1.5.7 NRF-618-3H

Description: This waste stream consists of structural components from U.S. Navy core fuel bundles, end boxes, and other components.

Disposal dates: 1976–1980

Waste stream volume: 98.77 m³

Nonradiological contaminants in HDT: None

No shipments to the RFP TRU pits were identified for this waste stream.

A-1.5.8 NRF-618-4H

Description: This waste stream consists of structural components from U.S. Navy core fuel bundles, end boxes, and other components.

Disposal dates: 1981–1983

Waste stream volume: 56.6 m³

Nonradiological contaminants in HDT: None

No shipments to the RFP TRU pits were identified for this waste stream.

A-1.5.9 NRF-618-5H

Description: This waste stream consists of zirconium alloy (zircaloy) cladding from U.S. Navy cores. It is solid scrap, chips from machining operations, and saw fines placed in 5-gal cans. Table A-18 lists shipments with suspect hazardous contaminants from NRF-618-5H.

Disposal dates: 1955–1975

Waste stream volume: 11.7 m³

Nonradiological contaminants in HDT: Zirconium alloys

Table A-18. Waste stream NRF-618-5H shipments with suspect hazardous contaminants.

Pit	Contaminant	Shipping Document Identification Number and Shipment Description	Burial Location
P2	Zirconium	NRF618SR009/27/628006000100/ Cell #7 liner and components. Cask containing solid Zr-95 scrap metal, all items sufficiently wrapped (unknown isotope, 40 Ci).	450 ft east of northwest pit marker

A-1.5.10 NRF-618-6H

Description: This waste stream consists of solidified sludge, resin, and waste liquids in vermiculite, mainly in metal drums or tanks. Table A-19 lists shipments with suspect hazardous contaminants from NRF-618-6H.

Additional Sources: NRF-601, NRF-617, and NRF-633

Disposal dates: 1955–1983

Waste stream volume: 624 m³

Nonradiological contaminants in HDT: None

Table A-19. Waste stream NRF-618-6H shipments with suspect hazardous contaminants.

Pit	Contaminant	Shipping Document Identification Number and Shipment Description	Burial Location
P3	Nitric acid	NRF618LR005/01/6180000/ 25 55-gal barrels containing acid, nitric 67.2% by volume concentrated. Dispose in burial ground acid pit using wood platform. Liquid is to be emptied into the acid pit and drums buried in Pit 3 (unknown isotope, unknown curie amount).	Pit 3 and acid pit in accordance with instructions in "Description" column **
P3	Acetone Benzine	NRF618SR001/26/67820202/ Three 5-gal containers containing acetone and benzine contaminated with active corrosion products (unknown amount of Co-60; 0.2 total curies).	Burial Grounds liquid disposal
P3	Oil	NRF617SR007/11/66151/ Unknown number of metal oil tanks containing low level waste oil (unknown isotope; 1.46E-05 total curies)	Shallow liquid Pit #3
P3	Oil	NRF617SR012/09/66151/ Unknown number of metal oil tanks containing tank of low level waste oil (unknown isotope; 1.46E-06 total curies)	Shallow Liquid Pit #3
P3	Oil	NRF617SR008/02/6781051/ Unknown number of metal oil tanks containing LLW oil. Contamination spread if tanker is broken (unknown isotope; 1.5E-05 total curies)	Liquid Pit #3
P3	Oil	NRF617SR003/25/6880051/ Unknown number of metal oil tanks containing LLW oil. Contamination spread if tank is broken (unknown isotope; 0.0000146 total curies)	Unknown
P3	Oil	NRF617SR005/13/6880051/ Unknown number of metal tanks containing LLW oil. Contamination spread if tanker is broken (unknown weight for Co-60; 1.5E-05 total curies)	Unknown
P4	Resin	NRF617SR002/07/63800/ Used HOH resin with approximately 10 gal of water (Co-60, 0.385 mCi)	270 ft east of west pit marker
P4	Resin	NRF617SR002/07/63810/ Used LiOH resin with approximately 10 gal of water in 8 ft × 6 ft diameter concrete shielded tank (Co-60, 1.55 Ci)	270 ft east of west pit marker
P4	Resin	NRF617SR011/06/63800/ 27 cubic ft of HOH resin with approximately 1 gal of water enclosed in steel and concrete cylinder (Co-60, 4 mCi)	125 ft from west end, 20 ft from north side
P4	Resin	NRF617SR011/14/63800/ 27 ft ³ of HOH resin with approximately 1 gal of water enclosed in steel and concrete cylinder (Co-60, 4 mCi)	125 ft from west end, 30 ft from north side
P5	Oil	NRF617SR001/20/66251/ Tank of contaminated waste oil (Co-60, 46 µCi)	75 ft northwest of the southwest monument
P9	Oil	NRF617SR005/22/6880010/ Waste oil sludge (Co-60, 17 µCi)	85 ft north and 40 ft west of southeast monument
P10	Oil	NRF617SR005/14/71900/ Metal, wood, paper waste and 3 solidified waste oil drums -AIW (55 gal) (Co-60, 0.002 Ci)	280-290 ft west and 10-20 ft south of northeast monument
P10	Oil	NRF617SR002/25/71120/ 66 ft ³ oil absorbed in fullers earth, 18 ft ³ parts, refer to WSRC-3413, C-3425, and 8 ft ³ scrap metal pipe (Co-60, 1.0 µCi)	300-315 ft west and 50-60 ft south of northeast monument

LLW = low-level waste

A-1.5.11 NRF-618-7H

Description: This waste stream consists of low-level-compactable and noncompactable waste resulting from work at the Expended Core Facility water pits and hot cells.

Disposal dates: 1960–1983

Waste stream volume: 12,460 m³

Nonradiological contaminants in HDT: None

Shipments assigned to this waste stream appear to have been sent to the RFP TRU pits; however, no shipments with suspect hazardous contaminants were identified.

A-1.5.12 NRF-633-1H

Description: This waste stream consists of consists of low-level-compactable and noncompactable waste resulting from operation of the S5G Reactor. Most of the waste was probably particulate with an occasional large metal valve or other reactor-system component.

Disposal dates: 1965–1983

Waste stream volume: 610 m³

Nonradiological contaminants in HDT: None

A shipment assigned to this waste stream appears to have been sent to the RFP TRU pits; however, no suspect hazardous contaminants were identified.

A-1.6 Off-Site Generators

Off-INEEL waste generators (other than RFP) consisted of commercial and governmental LLW generators that shipped waste to the SDA from 1960–1963. During this period, the RWMC was designated, by the U.S. Atomic Energy Commission (the predecessor agency to the DOE), as a national disposal site for licensees that generated LLW.

A-1.6.1 OFF-AEI-1H

Description: This waste stream consists of radiation sources, laboratory waste, and solidified Ce-144/C-12 solution from American Electronics, comprising 13 metal drums with waste contained in concrete and lead. Table A-20 lists shipments with suspect hazardous contaminants from OFF-AEI-1H.

Disposal dates: 1961

Waste stream volume: 10.42 m³

Nonradiological contaminants in HDT: Lead, cerium chloride

Comments: Only this waste stream from this off-INEEL source and only one shipment was reported; therefore, these contaminants must be in the shipment.

Table A-20. Waste stream OFF-AEI-1H shipments with suspect hazardous contaminants.

Pit	Contaminant	Shipping Document Identification Number and Shipment Description	Burial Location
P2	Lead	OFFAEISR103/01/61800150/ (1) 13 55-gal barrels contain unused sources of Co-60 and Ce-144/Pr-144 encased in concrete and lead. (2) 37 55-gal barrels contain contaminated laboratory equipment and waste or contaminated asphalt and soil. Shipping document reported chemical bulk form of waste as metallic cobalt and CeCl ₃ (unknown weight for Ce-144, Pr-144, Co-60, Sr-90, Yr-90, Kr-85, Cs-137; curie amount Co-60 = 4.1 Ci; Ce-144 and Pr-144 = 0.9 Ci; Kr-85 = 1.3 Ci, Cs-137 = 0.013 Ci; Sr-90 and Yr-90 = 1 mCi).	31 barrels begin at a point 84 ft west and 45 ft north of southeast pit marker. Runs 25 ft north of Barrel Row #24. 19 barrels begin at a point 87 ft west and 78 ft north of southeast marker. Runs 15 ft north of Barrel Row #25.

A-1.6.2 OFF-ATI-1H

Description: This waste stream consists of irradiated fuel and chemical byproducts of nuclear reactor research from Atomics International Division, Rockwell. Table A-21 lists shipments with suspect hazardous contaminants from OFF-ATI-1H.

Disposal dates: 1960–1962

Waste stream volume: 1390.49 m³

Nonradiological contaminants in HDT: Lead, beryllium, beryllium oxide, sodium, sodium/potassium, mercury, lithium hydride

Table A-21. Waste stream OFF-ATI-1H shipments with suspect hazardous contaminants.

Pit	Contaminant	Shipping Document Identification Number and Shipment Description	Burial Location
P2	Beryllium oxide	OFFATISR107/14/60800NA/ Unknown number of containers containing mixed fission products. Contains beryllium oxide (unknown isotope; 0.005 total curies).	See map in shipping document for location.
P2	Beryllium oxide	26 wooden boxes containing radioactively contaminated sheet metal and ducting: 1 mCi MFP per box. (Two wooden boxes containing beryllium oxide-contaminated ducting and sheet metal. One wooden box containing radioactively contaminated ductwork 1 mCi MFP. One wooden box containing radioactively contaminated ductwork 1 mCi MFP.) (MFP: each package has <0.00135 total curies.)	See map in shipping document for location.
P2	Beryllium oxide	OFFATISR107/14/608200/ 26 wooden boxes containing radioactively contaminated sheet metal and ducting: 1 mCi MFP per box. Two wooden boxes containing beryllium oxide-contaminated ducting and sheet metal. One wooden box containing radioactively contaminated ductwork; 1 mCi MFP. One wooden box containing radioactively contaminated ductwork; 1 mCi MFP. Contains beryllium oxide (mixed fission products; each package has <0.00135 total curies).	See map in shipping document for location.

Table A-21. (continued).

Pit	Contaminant	Shipping Document Identification Number and Shipment Description	Burial Location
P2	Beryllium oxide	OFFATISR107/18/608000/ One wooden boxes containing radioactively contaminated sheet metal and ducting. One wooden box containing beryllium oxide-contaminated filter housing. One wooden box containing beryllium oxide-contaminated bag filters. One wooden box containing beryllium oxide-contaminated roto-clone. Three wooden boxes containing radioactively contaminated filter housings. Three wooden boxes containing radioactively contaminated fume hoods. One wooden box containing beryllium oxide- and radioactively contaminated hydraulic press. One wooden box containing beryllium oxide-contaminated laboratory waste material. One wooden box containing radioactively contaminated sheet metal, dusting, and blower. Three wooden boxes containing radioactively contaminated filter housings (MFP; each package has <0.00135 total curies).	See map in shipping document for location.
P2	Beryllium oxide	OFFATISR107/18/608100/ Unknown number of containers containing MFPs. Contains beryllium oxide (unknown isotope; 0.008 total curies).	See map in shipping document for location.
P2	Beryllium oxide	OFFATISR107/18/608200/ Unknown number of containers containing MFPs. Contains beryllium oxide (unknown isotope; 0.009 total curies).	See map in shipping document for location.
P2	Beryllium oxide	OFFATISR107/18/608300/ Unknown number of containers containing mixed fission products. Contains beryllium oxide (unknown isotope; 0.004 total curies).	See map in shipping document for location.
P2	Beryllium oxide	OFFATISR107/20/608000/ 100 55-gal drums (radioactive material, NOS tile, metal and laboratory trash) 1 mCi MFP per drum. One wooden box, 14 × 3 ft 8 in. × 4 ft 1 in. box contains beryllium oxide (unknown isotope; each package has <0.00135 total curies).	Row 19 (west end) 20 (east end).
P2	Beryllium oxide	OFFATISR107/20/608100/ 29 55-gal drums radioactive material, nos (tile, metal and laboratory trash) 1 mCi per drum. Associated hazards: beryllium oxide (MFPs; each package has <0.00135 total curies).	Row 20 (east end).
P2	Beryllium	OFFATISR111/28/60800200/ 124 55-gal drums containing unknown contents: may contain beryllium in microgram quantities (unknown weight of mixed fission products; <2.7 Ci per container).	Rows 31, 32, 33, 34; and north from monument 155 to 165 ft, west 35 to 80 ft

Table A-21. (continued).

Pit	Contaminant	Shipping Document Identification Number and Shipment Description	Burial Location
P2	Lead Beryllium	OFFATISR104/26/61800200/ 136 55-gal steel drums of compressed dry waste. The waste is covered with a concrete cap. Four 55-gal drums are similar to the above, except the contents are a lead cask surrounded by concrete. Two 55-gal drums contain a lead cask. The cask is surrounded on all sides with concrete. The container has a lock on steel lid. 55 conduits, 3 ft diameter × 4 ft high or 4 ft diameter × 4 ft high. The conduits contain a 30-gal drum or other primary container surrounded by concrete. One wooden box containing a wash trough centered in the box and surrounded by reinforced concrete. Two 55-gal drums packaged similar to above except contents are solidified liquid waste. Eight 55-gal drums with permanent lids containing bungs. The packages are filled with solidified liquid waste. 33 55-gal drums of solidified liquid waste that is stainless steel accountable. 181 55-gal drums containing compressed dry waste. 20 wooden containers containing dry waste (unknown weight for MFPs, stainless steel material, beryllium; 25.41 total curies).	Begins at a point 115 ft west and 50 ft north from southeast pit marker. Runs 50 ft north, 120 ft west, 25 ft south, 100 ft east, 25 ft south, 20 ft east to beginning.
P2	Lead	OFFATISR104/26/6181020022/ 31 55-gal steel drums containing a lead cask surrounded by concrete. The concrete is covered with a steel lid, and the lip of the drum is crimped to retain the lid. Six 55-gal drums (ICC 6-C) containing a lead cask surrounded by concrete. The lid is a steel lock-on type. 11 conduits measuring 3 ft diameter × 4 ft high or 4 ft diameter × 4 ft high. The conduits contain a 30-gal drum or other primary container enclosed in concrete (unknown weight for MFP; 11,533.58 total curies).	Begins at a point 115 ft west and 50 ft north from southeast pit marker. Runs 50 ft north, 120 ft west, 25 ft south, 100 ft east, 25 ft south, 20 ft east to beginning.
P2	Lead Beryllium	OFFATISR108/07/618002000/ 299 55-gal steel drums containing compressed dry waste. The lid is a lock-on type (steel). 77 wooden boxes of various dimensions containing dry waste. 27 conduits measuring 3 ft diameter × 4 ft high or 4 ft diameter × 4 ft high. Conduits contain 30-gal drum or other primary container encased in concrete. 10 55-gal drums each contain a lead pig encased in concrete. Nine wooden boxes filled with concrete, 22 in. square by 103 in. long. Contains dry waste. One 6 × 6-ft cask. Steel shell containing high-density concrete. Package contains SNAP reactor shield plug including plutonium-beryllium source. 12 55-gal drums contain compressed dry waste. Waste is covered by a concrete cap. One 55-gal drum contains compressed dry or solidified liquid waste that is stainless steel accountable. A concrete cap covers some drums. The remaining drums are enclosed by a lock-on lid (steel) (unknown weight for MFPs, U-235, beryllium, plutonium-beryllium source; 7,751 total curies)	Begin at a point 200 ft west and 20 ft north from southeast pit marker, run 60 ft north and 6 ft west; also, 215 ft west and 20 ft north from marker, run 60 ft north and 3 ft west. Boxes at 197 ft west and 0 ft north, run 20 ft north and 18 ft west; also, at a point 218 ft west and 45 ft north, run 30 ft north and 90 ft west.

Table A-21. (continued).

Pit	Contaminant	Shipping Document Identification Number and Shipment Description	Burial Location
P2	Lead	OFFATISR112/01/6180020022/ 55-gal steel drums containing compressed dry waste. The lid is a steel lock-on type. Wooden boxes of various dimensions containing dry waste. The gross weight exceeds ICC specifications. Conduits 3 ft diameter × 4 ft high or 4 ft × 4 ft containing 30-gal drum or other primary container encased in concrete. 55-gal drum containing a lead pig encased in concrete (C-81, C-237). Dry waste encased in a concrete filled wooden box. 55-gal drum contains solidified liquid waste covered by concrete cap. 55-gal steel drums containing stainless steel materials (unknown weight for MFP, U-235, U-238, thorium, beryllium; 801 total curies).	Begin 18 ft west and 0 ft north; from southeast pit marker, run 18 ft west and 20 ft north. Begin 54 ft west and 0 ft north, run 120 ft west and 20 ft north. Begin 303 ft west and 20 ft north, run 6 ft west and 30 ft north. Begin 333 ft west and 20 ft north, run 39 ft west and 25 ft north.
P2	Lead	OFFATISR110/03/6280060/ 85 55-gal drums that contain compressed dry or solidified stainless steel accountable liquid radioactive by-product waste materials. 55 Conduits - packages are 3 ft in diameter, By 4 ft long pipe sections. Each contains a lead wrapped 30-gal drum, encased in reinforced concrete. These packages contain dry radioactive by-product waste materials. 6 Boxes - packages are concrete boxes containing dry radioactive by-product waste materials surrounded by concrete containing steel reinforcing bars. 33 55-gal drums that contain dry radioactive by-product waste materials in lead inner container encased in steel reinforced concrete (unknown weight for MFP, U-235, thorium, plutonium; 2,200.3 total curies).	300 ft east of west pit marker and 240-360 ft east of west pit marker.

ICC = Interstate Commerce Commission
MFP = mixed fission product
NOS = not otherwise specified

A-1.6.3 OFF-BWC-1H

Description: This waste stream consists of empty stainless steel fuel rods from Babcock and Wilcox, Nuclear Facilities, Lynchburg, Virginia.

Disposal dates: 1960

Waste stream volume: 15.63 m³

Nonradiological contaminants in HDT: None

A shipment assigned to this waste stream appears to have been sent to the RFP TRU pits; however, no suspect hazardous contaminants identified

A-1.6.4 OFF-CSC-1H

Description: This waste stream consists of laboratory equipment, animal carcasses, and feces from the California Salvage Company.

Disposal dates: 1962–1963

Waste stream volume: 28.76 m³

Nonradiological contaminants in HDT: None

Shipments assigned to this waste stream appear to have been sent to the RFP TRU pits; however, no suspect hazardous contaminants were identified

A-1.6.5 OFF-CSM-1H

Description: This waste stream consists of magnesium fluoride slag with 1% natural uranium, steel metallic salts, and miscellaneous laboratory waste. It also includes some irradiated rock samples, some glassware laboratory waste, and rock samples in double drums. It was received from the Colorado School of Mines.

Disposal dates: 1960–1962

Waste stream volume: 22.6 m³

Nonradiological contaminants in HDT: Magnesium fluoride

A shipment assigned to this waste stream appears to have been sent to the RFP TRU pits; however, no suspect hazardous contaminants were identified.

A-1.6.6 OFF-DPG-1H

Description: This waste stream consists of animal and laboratory waste from Dugway Proving Grounds. Table A-22 lists shipments with suspect hazardous contaminants from OFF-DPG-1H. The original shipment documents for OFFDPGSR107/15/6280011010 describing the contents of the shipment are missing, however, RWMIS explicitly states lead as part of the shipment.

Disposal dates: 1960–1962

Waste stream volume: 25.88 m³

Nonradiological contaminants in HDT: None

Table A-22. Waste stream OFF-DPG-1H shipments with suspect hazardous contaminants.

Pit	Contaminant	Shipping Document Identification Number and Shipment Description	Burial Location
P3	Lead	OFFDPGSR107/15/6280011010/ Five wooden boxes containing lead and scrap metal (unknown weight for Co-60 and P-32, 510 Ci). 15 barrels are listed on same invoice, but with different location. Listed under document ID OFFDP6SR107/15/6281011010. RWMIS: two wood boxes of lead, three wood boxes of metal scrap.	100 ft north and 30 ft west of southeast pit marker.

ID = identification number

RWMIS = Radioactive Waste Management Information System

A-1.6.7 OFF-GDA-1H

Description: This waste stream consists of fuel fabrication items, laboratory equipment, activated metal, and irradiated fuel from General Dynamics, General Atomic Division. Transuranic waste and LLW are

both part of the waste stream. Table A-23 lists shipments with suspect hazardous contaminants from OFF-GDA-1H.

Disposal dates: 1961–1963

Waste stream volume: 714.82 m³

Nonradiological contaminants in HDT: Nitric acid

Table A-23. Waste stream OFF-GDA-1H shipments with suspect hazardous contaminants.

Pit	Contaminant	Shipping Document Identification Number and Shipment Description	Burial Location
P2	Nitric acid	OFFGDASR105/20/61800200/ 220 55-gal drums and two wooden boxes containing shoe covers, clothing, towels, hand towels, industrial wipes, scrap metal, scrap wood, scrap glass, fiber glass filters, acid solidified in Portland cement. Dirt, cement, and liquids solidified in plaster. Loose material pressure packed in steel drums or loose packed in wood crates (unknown weight for U-235, U-238, Co-60, ? and MFP; curie amount <1).	Begins at a point 100 ft west and 20 ft north from southeast pit marker run 60 ft north and 6 ft west Burial Row #33 and 34. Boxes begin at a point 133 ft west and 75 ft north from southeast pit marker, run 33 ft west and 11 ft north.
P2	Nitric acid	OFFGDASR110/10/62800200/ 140 55-gal drums containing dry, solid state waste (e.g., shoe covers, towels, wood, industrial wipes, and fiberglass filters) acid solidified and neutralized in cement, scrap metal and glass (unknown weight for U-235, U-238, Th-232, Co-60, and MFPs; <1 total curie)	330 ft east of west pit marker.
P2	Nitric acid	OFFGDASR111/15/62810200/ 100 55-gal drums containing dry, solid state waste (e.g., shoe covers, towels, wood, industrial wipes, and fiberglass filters) acid solidified and neutralized in cement, scrap metal and glass. Items lose pressure packed in drums (unknown weight for U-235, U-238, Th-232, Co-60 and MFPs; <1 total curie)	285 ft east of west pit marker.
P2	Nitric acid	OFFGDASR112/18/62820200/ 80 55-gal drums containing dry, solid state waste (e.g., shoe covers, towels, wood, industrial wipes, and fiberglass filters) acid solidified and neutralized in cement, scrap metal and glass (unknown weight for U-235, U-238, Th-232, Co-60 and MFPs; <1 total curie)	240 ft east of west pit marker.
P2	Nitric acid	OFFGDASR104/30/63800200/ 160 55-gal drums containing LLW dry solid state (e.g., shoe covers, towels, industrial wipes, filters, scrap metal, and glass), acid neutralized and solidified in Portland cement and vermiculite. (10 g of U-235, unknown weight for U-238, Th-232, Co-60, and MFPs; 0.20 curies).	95 ft east of the west pit marker.
P3	Nitric acid	OFFGDASR104/30/628005/ 120 55-gal drums containing dry, solid-state waste (e.g., shoe covers, towels, wood, industrial wipes, and fiberglass filters) acid solidified and neutralized in cement, scrap metal and glass (unknown weight for U-235, U-238, Co-60, Th232 and MFPs, < 0.5 Ci).	Begin at point 185 ft south and 0 ft east from northwest pit marker. Run 9 ft south and 90 ft east.

Table A-23. (continued).

Pit	Contaminant	Shipping Document Identification Number and Shipment Description	Burial Location
P3	Nitric acid	OFFGDASR106/28/62800200/ 70 55-gal drums containing dry, solid waste (e.g., shoe covers, towels, wood, industrial wipes, and fiberglass filters) acid solidified and neutralized in cement; scrap metal and glass. Items lose pressure packed in drums (unknown weight for: U-235, U-238, Co-60, Th-232, <1 Ci)	Begin at a point 328 ft south of northwest #3 trench marker, run 60 ft east and 6 ft south.
P4	Nitric acid	OFFGDASR101/22/63800/ 60 55-gal drums with dry, solid state waste (e.g., shoe covers, towels, wood, industrial wipes, and fiberglass filters) acid solidified and neutralized in cement, scrap metal and glass (U-235, U-238, Th-232, Co-60, MFP, < 1 Ci)	270 ft east of west pit marker.
P4	Nitric acid	OFFGDASR108/05/63800/ LLW, dry solid state waste (e.g., shoe covers, towels, industrial wipes, filters, scrap metal, glass, and scrap wood) nitric-acid neutralized and solidified in Portland cement (depleted uranium, traces of U-235, U-238, Th-232, Co-60, < 200 mCi, RWMIS: 800 mCi).	1+80 ft from west end, 0+75 ft from north side (RWMIS: this only) 1+85 ft from west end, 0 to 0+60 ft from north side.
P4	Nitric acid	OFFGDASR108/05/63810/ LLW, dry solid state (e.g., shoe covers, towels, industrial wipes, filters, scrap metal, glass, and scrap wood) nitric-acid neutralized and solidified in Portland cement (depleted uranium and traces of U-235, U-238, Th-232, Co-60, < 200 mCi).	1+80 from west end, 0+75 from north side 1+85 from west end, 0 to 0+60 from north side.

LLW = low-level waste
RWMIS = Radioactive Waste Management Information System

A-1.6.8 OFF-HEW-1H

Description: This waste stream consists of radium-contaminated laboratory waste from the U.S. Department of Health, Education, and Welfare, Radiological Health Public Service.

Disposal dates: 1961

Waste stream volume: 94.46 m³

Nonradiological contaminants in HDT: None

Shipments assigned to this waste stream appear to have been sent to the RFP TRU pits; however, no suspect hazardous contaminants were identified

A-1.6.9 OFF-IXE-1H

Description: This waste stream consists of radiation sources, steel encased and welded shut with a lead pig liner from Industrial X-Ray Engineers in Seattle, Washington. Table A-24 lists shipments with suspect hazardous contaminants from OFF-IXE-1H.

Disposal dates: 1960–1963

Waste stream volume: 0.26 m³

Nonradiological contaminants in HDT: Lead

Table A-24. Waste stream OFF-IXE-1H shipments with suspect hazardous contaminants.

Pit	Contaminant	Shipping Document Identification Number and Shipment Description	Burial Location
P3	Lead	OFFIXESR103/07/6280030/ Iridium in lead cask steel encased and welded closed (unknown weight for Ir-192, 60 Ci)	188 ft south and 8 ft east from northwest pit marker.
P4	Lead	OFFIXESR102/15/63800/ Steel-encased lead cask centered in concrete-filled oil drum. Lifting ring welded to supports of lead core and extends above concrete (Co-60, Ir-192, 60 Ci).	300 ft east of west pit marker.

A-1.6.10 OFF-LRL-1H

Description: This waste stream consists of biological waste, animal parts, and related metabolic studies on waste in metal barrels from Lawrence Radiation Laboratory, University of California.

Disposal dates: 1962–1963

Waste stream volume: 262.73 m³

Nonradiological contaminants in HDT: Lead, asbestos

No shipments to the RFP TRU pits were identified for this waste stream.

A-1.6.11 OFF-LRL-2H

Description: This waste stream comprises concrete, bricks, and asphalt from Lawrence Radiation Laboratory, University of California. It also included material from weapons testing, engine fabrication, and waste from testing disposed in fiberglass barrels and wooden and metal boxes.

Disposal dates: 1962–1963

Waste stream volume: 1,978.76 m³

Nonradiological contaminants in HDT: Lead, asbestos

Shipments assigned to this waste stream appear to have been sent to the RFP TRU pits; however, no suspect hazardous contaminants were identified.

A-1.6.12 OFF-MCS-1H

Description: This waste stream consists of electronic tubes and metasopes from Marine Corporation Supply Center, Barstow, California.

Disposal dates: 1962

Waste stream volume: 13.42 m³

Nonradiological contaminants in HDT: None

Shipments assigned to this waste stream appear to have been sent to the RFP TRU pits; however, no suspect hazardous contaminants were identified.

A-1.6.13 OFF-MHS-1H

Description: This waste stream consists of 39 Co-60 wires sealed in concrete. It was received from Memorial Hospital of Sheridan, Wyoming.

Disposal dates: 1963

Waste stream volume: 0.1416 m³

Nonradiological contaminants in HDT: None

Shipments assigned to this waste stream appear to have been sent to the RFP TRU pits; however, no suspect hazardous contaminants were identified.

A-1.6.14 OFF-NEC-1H

Description: This waste stream consists of an aluminum heat exchanger and waste containing U-235 and U-238. The waste was received from the Nuclear Energy Company, Louisville, Kentucky.

Disposal dates: 1961–1962

Waste stream volume: 164.55 m³

Nonradiological contaminants in HDT: None

Shipments assigned to this waste stream appear to have been sent to the RFP TRU pits; however, no suspect hazardous contaminants were identified.

A-1.6.15 OFF-NMR-1H

Description: This waste stream consists of biological waste from Laboratory of Nuclear Medicine and Radiological Biology, UCLA, California. The waste is contained in a cement matrix in metal drums. Table A-25 lists shipments with suspect hazardous contaminants from OFF-NMR-1H.

Disposal dates: 1961

Waste stream volume: 3.964 m³

Nonradiological contaminants in HDT: Magnesium, manganese, sodium nitrate, anthracene

Comments: The volume of the shipment equals the volume of the waste stream; therefore, the contaminants reported in the HDT must be in this shipment.

Table A-25. Waste stream OFF-NMR-1H shipments with suspect hazardous contaminants.

Pit	Components	Shipping Document Identification Number and Shipment Description	Burial Location
P2	Magnesium Sodium Nitrate Anthracene	OFFNMRSR105/11/6180020/ 19 55 gal steel drums containing unknown contents. RWMIS: 1 bbl animal waste, 18 bbl paper equipment (unknown weight for MFPs; Cs-137, Sr-89, Sr-90, Y-90, Y-91, Zn-65, Fe-59, P-32, I-131, RU-106, Co-60, H-3, Ce-144, and Ca-45; <0.02 total curies).	Begins at a point 121 ft west and 20 ft north from southeast marker. Runs 50 ft north and 3 ft West.

MFP = mixed fission product
RWMIS = Radioactive Waste Management Information System

A-1.6.16 OFF-OMC-1H

Description: This waste stream consists of paper, graphite, clothing, steel copper crucibles, and acid carboy. It was received from the Oregon Metallurgical Corporation, Albany, Oregon.

Disposal dates: 1961

Waste stream volume: 7.33 m³

Nonradiological contaminants in HDT: None

Shipments assigned to this waste stream appear to have been sent to the RFP TRU pits; however, no suspect hazardous contaminants were identified

A-1.6.17 OFF-PM1-1H

Description: This waste stream consists of a resin storage tank, cement, and empty tank. It was received from the PM-1 Nuclear Power Plant, Sundance Air Force Station, Sundance, Wyoming.

Disposal dates: 1969

Waste stream volume: 49.9 m³

Nonradiological contaminants in HDT: None

Shipments assigned to this waste stream appear to have been sent to the RFP TRU pits; however, no suspect hazardous contaminants were identified

A-1.6.18 OFF-SAM-1H

Description: This waste stream consists of missile structural components, jet engine parts, fragments of fuel tanks, paper, and ash from the BOMARC missile cleanup. The source is San Antonio Air Materials Center, Kelly Air Force Base.

Disposal dates: 1961

Waste stream volume: 25.14 m³

Nonradiological contaminants in HDT: None

Shipments assigned to this waste stream appear to have been sent to the RFP TRU pits; however, no suspect hazardous contaminants were identified.

A-1.6.19 OFF-SAM-2H

Description: This waste stream consists of a reactor shield weighing 36,000 lb, miscellaneous metals (magnesium alloy, copper, tin, aluminum and stainless steel), insulation, rubber, plastic, paper, glass, wire, dirt, wood, concrete, and ash. The source is San Antonio Air Materials Center, Kelly Air Force Base. Table A-26 lists shipments with suspect hazardous contaminants from OFF-SAM-2H.

Disposal dates: 1960–1961

Waste stream volume: 73.13 m³

Nonradiological contaminants in HDT: Magnesium, lead

Table A-26. Waste stream OFF-SAM-2H shipments with suspect hazardous contaminants.

Pit	Contaminant	Shipping Document Identification Number and Shipment Description	Burial Location
P2	Lead	OFFSAMSR110/21/60800150/ One radioactive structure (shield used with Aircraft Shield Test Reactor). The unit is mounted on steel skids and is otherwise impractical to crate or package. Shield is almost entirely lead and stainless steel (unknown weight for iron, cobalt; <0.1 total curies)	550 west and 25 south northeast from ???.
P2	Magnesium	OFFSAMSR112/02/6080075/ 50 steel drums and one steel box containing irradiated steel aluminum, copper, tin, plastic, rubber, magnesium-thorium alloy, paper, fiberglass insulation, glass, dirt, mixed trash (unknown weight for iron, cobalt, copper, magnesium-thorium, tin; 0.094 total curies).	Barrel Row #6, beginning at 21 ft west and 26 ft north and continuing 15 yd north from south east pit marker.

A-1.6.20 OFF-TCC-1H

Description: This waste stream consists of rags, wipes, tapes, concrete, graphite, and solvent from the cleanup of an incident involving a Co-60 radiographic camera at the Thiokol Chemical Corporation, Brigham City, Utah.

Disposal dates: 1960

Waste stream volume: 2.12 m³

Nonradiological contaminants in HDT: None

Shipments assigned to this waste stream appear to have been sent to the RFP TRU pits; however, no suspect hazardous contaminants were identified.

A-1.6.21 OFF-UAC-1H

Description: This waste stream consists of radioactive tube waste packed in cement from the U.S. Army Chemical Center, Maryland.

Disposal dates: 1960

Waste stream volume: 1.84 m³

Nonradiological contaminants in HDT: None

Shipments assigned to this waste stream appear to have been sent to the RFP TRU pits; however, no suspect hazardous contaminants were identified.

A-1.6.22 OFF-UBM-1H

Description: This waste stream consists of ore-processing waste including rare earth elements, U₃O₈, Fe-203, ThO₂, uranium chlorides, and iron oxides. The waste stream was received from the U.S. Bureau of Mines, Albany, Oregon, and Reno, Nevada.

Disposal dates: 1961–1963

Waste stream volume: 22.98 m³

Nonradiological contaminants in HDT: None

Shipments assigned to this waste stream appear to have been sent to the RFP TRU pits; however, no suspect hazardous contaminants were identified.

A-1.6.23 OFF-UNR-1H

Description: This waste stream consists of laboratory waste (e.g., paper, wood, glassware, and empty bottles), Co-60 sources, Sr-90 sources, and H-3. The waste is in cardboard boxes in plastic bags. It may include animal carcasses (i.e., rats and mice), blood, feces, scintillation vials, 1-L containers of fuming nitric acid, and titanium H-3 accelerator targets. The nitric acid containers are inside another container with calcium silicate as an absorbent. This waste stream is from the U.S. Nuclear Regulatory Commission, Region V. Table A-27 lists shipments with suspect hazardous contaminants from OFF-UNR-1H.

Disposal dates: 1963

Waste stream volume: 8.04 m³

Nonradiological contaminants in HDT: Nitric acid

Comments: This is the only waste stream from this source. The shipment is the only shipment reported for this source and hence must contain nitric acid.

Table A-27. Waste stream OFF-UNR-1H shipments with suspect hazardous contaminants.

Pit	Contaminant	Shipping Document Identification Number and Shipment Description	Burial Location
P4	Lead Nitric acid	OFFUNRSR103/01/63800/ Material in block is solid waste materials (e.g., paper, wood, glassware, lead-shielded Co-60 sources. Sr-40 sources encased in plaster of Paris, H-3 as liquid absorbent material in polyethylene bottle sealed with plaster of Paris, and empty bottles). Block capped with 6 in. concrete (Co-60 15.3 Ci, H-3 10 Ci, Sr-90 3 Ci; MFP, 200 mCi).	3+10 ft east of the southwest marker.

MFP = mixed fission product
RWMIS = Radioactive Waste Management Information System

A-1.6.24 OFF-UOU-1H

Description: This waste stream consists of biological waste, radioactive excreta, and animal carcasses mixed in concrete from the University of Utah. Table A-28 lists shipments with suspect hazardous contaminants from OFF-UOU-1H.

Disposal dates: 1960

Waste stream volume: 20.1 m³

Nonradiological contaminants in HDT: Formaldehyde

Table A-28. Waste stream OFF-UOU-1H shipments with suspect hazardous contaminants.

Pit	Contaminant	Shipping Document Identification Number and Shipment Description	Burial Location
P3	Formaldehyde	OFFUOUSR109/17/6280010/ 50 55-gal drums and one wooden box containing radioactive excreta and embalmed dog carcasses mixed in concrete (unknown weight for Sr-90, 10 mCi)	30 ft west and 40 ft north of southeast pit marker.

A-1.6.25 OFF-UOW-1H

Description: This waste stream consists of animals, animal tissue, isotopic solutions, evaporated residues, paper, syringes, clothing, laboratory glassware, plachets, benzene, carbon tetrachloride, methyl alcohol, and other biomedical waste. Tissue experiments conducted may have involved the use of C-14, diphtheria, poliovirus, and New Castle virus. It is believed the waste would have been deactivated before disposal. Animal carcasses were wrapped in plastic or butcher paper and placed in drums with the other items. This waste stream is from the University of Washington. Table A-29 lists shipments with suspect hazardous contaminants from OFF-UOW-1H.

Disposal dates: 1960–1963

Waste stream volume: 12.97 m³

Nonradiological contaminants in HDT: 3-methyl-cholanthrene, diisopropyl-fluoro-phosphate, benzene, methyl alcohol, carbon tetrachloride

Comments: These shipments make up the entire waste stream.

Table A-29. Waste stream OFF-UOW-1H shipments with suspect hazardous contaminants.

Pit	Contaminants	Shipping Document Identification Number and Shipment Description	Burial Location
P2	Lead 3-Methylcholanthrene Diisopropyl-fluorophosphate Benzene Methyl Alcohol Carbon tetrachloride	OFFUOWSR112/12/6180040/ Contains laboratory trash contaminated with miscellaneous radioactive isotopes. Trash includes paper, glass, animal carcasses, and lead shielding for Co-60 sources of millicurie size and over. Liquid residues have been mixed with Perlite #2 at rate of 2 volume of Perlite to 1 volumes of liquid to obtain a damp solid aggregated for shipping purposes (unknown weight for Co-60, C-14, H-3 Fe-59, Fe-55, Cr-51, S-35, Ag-1, and MFPs; 0.78 total curies).	Begin at a point 387 ft west and 20 ft north from southeast pit marker, run 20 ft north and 3 ft west.
P2	3-Methylcholanthrene Diisopropyl-fluorophosphate Benzene Methyl alcohol, Carbon tetrachloride	OFFUOWSR110/10/6080050/ Type A, three steel 55-gal drums with 4-in. concrete cap on top. Type B, 25 steel 5-gal drums with 3 in. concrete cap on top. Type C, 38 welded steel "fuze" box with four clamp-sealed metal lids. Contents: Laboratory trash materials including animal carcasses, glassware, absorbent paper (unknown weight for Fe-59, H-3, C-14, Zn-65, Sr-90, Cr-51, Ca-45, Fe-55, Cs-137; 0.15 total Ci, ± 0.06 Ci)	145 ft north and 40 and 50 ft west of monument.
P2	3-Methylcholanthrene Diisopropyl-fluorophosphate Benzene Methyl Alcohol Carbon tetrachloride	OFFUOWSR106/09/6180020/ Miscellaneous laboratory trash including animal carcasses packed in lime, waste-absorbent paper, glassware, planchets (unknown weight for Sr-89, Mn-54, Co-60, Sn-113, H-3 C-14, S-35, Ca-45, Fe-59, Fe-55, Zn-65, Cr-51; 0.11 total curies)	Begin at a point 152 ft west and 90 ft north from southeast pit marker, run 6 ft north and 3 ft west of Burial Row #50.
P2	3-Methylcholanthrene Diisopropyl-fluorophosphate Benzene Methyl Alcohol Carbon tetrachloride	OFFUOWSR109/20/62800130/ 12 55-gal drums containing byproduct material contaminated laboratory trash (including animal carcasses, waste paper, broken and intact glassware, wet vermiculite) Packed in ICC-approved steel 55-gal drums (unknown weight for H-3, C-14, Fe-59, Fe-55, Cr-51, Co-60, S-3; 0.103 total curies)	405 ft east and 135 ft north of southwest pit marker.
P4	3-Methylcholanthrene Diisopropyl-fluorophosphate Benzene Methyl Alcohol Carbon tetrachloride	OFFUOWSR102/20/63800/ Laboratory solid trash contaminated with miscellaneous radioactive isotopes. Trash includes paper, glass, and animal carcasses allayed in dry, unslacked lime. Liquids have been mixed with Prelate 2 (H-3, I-125, C-14, S-35, Sr-85, Cr-51, P-32, Cu-64, Fe-59, Zn-65, Co-60, Pm-147, I-131, H9-203, Cs-137, Fe-55, Sr-90, Co-45, 0.15 Ci)	330 ft east of west pit marker.

ICC = Interstate Commerce Commission
MFP = mixed fission product

A-1.6.26 OFF-USN-1H

Description: This waste stream consists of animal carcasses, waste paper, towels, glassware, tools, and similar laboratory items. The animal carcasses are pickled in formaldehyde and inside plastic bags. This waste stream is from the U.S. Naval Radiological Defense Laboratory. Table A-30 lists shipments with suspect hazardous contaminants from OFF-USN-1H.

Disposal dates: 1960–1963

Waste stream volume: 227.5 m³

Nonradiological contaminants in HDT: Formaldehyde (1963)

Table A-30. Waste stream OFF-USN-1H shipments with suspect hazardous contaminants.

Pit	Contaminant	Shipping Document Identification Number and Shipment Description	Burial Location
P2	Formaldehyde	OFFUSNSR108/20/6280010/ Three 55-gal drums containing an ICC-approved drum containing animal carcasses. All carcasses sealed inside double plastic bags, inside drums (unknown weight for C-14; curie amount <0.0012 per drum)	Buried 110 yd from northwest pit marker.
P2	Formaldehyde	OFFUSNSR105/09/6380010/ Three 55-gal drums containing animal carcasses. All carcasses sealed inside double plastic bags, inside drums (unknown weight for C-14; <0.0012 total curies/drum)	70 ft east of west pit marker.
P3	Formaldehyde	OFFUSNSR108/20/6281010/ Three 55-gal drums containing animal carcasses. All carcasses sealed inside double plastic bags, inside drums (unknown weight for C-14, <1.2 mCi/drum)	10 ft west and 20 ft north of southeast pit marker.

ICC = Interstate Commerce Commission

A-1.6.27 OFF-WCC-1H

Description: This waste stream consists of paper, rags, furnace coke, carbon baffles, wax, brick refractory, and small hand tools from the Wah Chang Corporation, Albany, Oregon.

Disposal dates: 1961

Waste stream volume: 4.53 m³

Nonradiological contaminants in HDT: None

Shipments assigned to this waste stream appear to have been sent to the RFP TRU pits; however, no suspect hazardous contaminants were identified.

A-1.6.28 OFF-WSU-1H

Description: This waste stream consists of bird, animal, and crawfish carcasses, Kim wipes, paper towels, and stainless steel plachets. The source of the waste stream is Washington State University. Table A-31 lists shipments with suspect hazardous contaminants from OFF-WSU-1H.

Disposal dates: 1962

Waste stream volume: 2.15 m³

Nonradiological contaminants in HDT: Ethyl alcohol, methyl alcohol, 1,4-bis (5-phenyloxazol-2-yl) benzene, toluene

Comments: The volume of the shipment equals the volume of the waste stream; therefore, the constituents must be part of the shipment.

Table A-31. Waste stream OFF-WSU-1H shipments with suspect hazardous contaminants.

Pit	Contaminants	Shipping Document Identification Number and Shipment Description	Burial Location
P3	Ethyl Alcohol Methyl Alcohol Benzene Toluene	OFFWSUSR105/28/6280010/ RWMIS: 8 55-gal drums containing animal carcasses, paper, metal and wood (unknown weight for H-3, C-14, P-32, S-35, Ca-45, Co-60, Zn-65, Sr-8, Rb-86, I-131, Cs-137, Ce-144, Pa-147, Tl-204, U-238, <0.01 Ci)	Begin at a point 290 ft south and 50 ft east from northwest pit marker. Run 15 ft east and 3 ft south.

A-1.7 Waste Reduction Operations Complex and Power Burst Facility

The Power Burst Facility (PBF) area originally contained reactors constructed for the Special Power Excursion Reactor Test experiments to investigate reactor transient behavior and safety studies on water-moderated enriched-fuel reactor systems. These operations were completed before 1970 and PBF began operations in 1972. The PBF area includes the PBF reactor, the Waste Engineering Development Facility, the Waste Experimental Reduction Facility, and the Mixed Waste Storage Facility. The HDT stated that only minor volumes of nonradiological waste (i.e., solvents, resins, cleaning solutions, and acids) were included with PBF waste shipments to the SDA. The HDT also states that the nonradiological contaminants were derived primarily from cleanup of reactor components at the Special Power Excursion Reactor Test reactors and contained 2-butanone and toluene, shipped to the RWMC on rags and wipes used for cleanup. In addition, the HDT states that it is likely that these contaminants volatilized to a large extent before disposal.

A-1.7.1 PER-601-1H

Description: This waste stream consists of combustibles. The PBF Reactor Control Building and addition are designated as PER-601.

Disposal dates: 1960–1970

Waste stream volume: 270 m³

Nonradiological contaminants in HDT: Lead, cadmium

Shipments assigned to this waste stream appear to have been sent to the RFP TRU pits; however, no suspect hazardous contaminants were identified in the shipments.

A-1.7.2 PER-613-1H

Description: This waste stream consists of core structural components, reactor vessel and loop components. The Mixed Waste Storage Facility is designated as PER-613.

Disposal dates: 1971–1980

Waste stream volume: Unknown

Nonradiological contaminants in HDT: Acetone (1971–1982), lead (1971–1982), silver (1979–1982), 2-butanone (1971–1982), trichloroethylene (1971–1982), cadmium (1971–1982)

Shipments assigned to this waste stream appear to have been sent to the RFP TRU pits; however, no suspect hazardous contaminants were identified in the shipments.

A-1.7.3 PER-620-1H

Description: This waste stream consists of paper, cloth, wood, resin, insulation, batteries, concrete, asphalt, and radioactive sources. The PBF reactor building is designated as PER-620. Table A-32 lists shipments with suspect hazardous contaminants from PER-620-1H.

Disposal dates: 1970–1983

Waste stream volume: Unknown

Nonradiological contaminants in HDT: Acetone (1970–1983), lead (1981–1983), silver (1970–1983), chromium (1970–1983), 1,1,1,-trichloroethane (1970–1983), hydrazine (1970–1983), toluene (1978-1983)

Comments: Only one shipment that appeared to be part of this waste stream went to the RFP TRU pits; however, the shipment description is inadequate to determine whether the reported constituents were part of the shipment.

Table A-32. Waste stream PER-620-1H shipments with suspect hazardous contaminants.

Pit	Contaminant	Shipping Document Identification Number and Shipment Description	Burial Location
P10	?	PER620SR003/31/71213/ Contaminated metal scrap with excess equipment from reactor operation (unknown isotope, <1.0 mCi).	280-310 ft west and 5-20 ft south of northeast monument.

A-1.7.4 PER-ORM-1H

Description: This waste stream consists of paper, cloth, wood, barrels of Santo-R wax, and empty barrels. The waste is from the Organic-Moderated Reactor Experiment reactor. Table A-33 lists shipments with suspect hazardous contaminants from PER-ORM-1H.

Disposal dates: 1960–1966

Waste stream volume: 914.6 m³

Nonradiological contaminants in HDT: Acetone (1960–1966), lead (1960–1966), xylene (1960–1966), trichloroethylene (1960–1966), 1,1,1-trichloroethane (1960–1966), asbestos (1960–1966), antimony (1963), toluene (1960–1966)

Comments: It was not possible to determine the specific constituents of the reported organic waste.

Table A-33. Waste stream PER-ORM-IH shipments with suspect hazardous contaminants.

Pit	Contaminant	Shipping Document Identification Number and Shipment Description	Burial Location
P4	1,1,1-trichloroethane Acetone Trichloroethylene Toluene Xylene	PERAIISR006/24/63800/ Organic waste and residue in 51 55-gal drums (unknown isotope, 0.7 Ci).	2+25 from west, 0+50 from north side.
P4	1,1,1-trichloroethane Acetone Trichloroethylene Toluene Xylene	PERAIISR007/10/63800/ Organic waste and residue in 56 full 55-gal drums and seven empty drums (unknown isotope, 0.75 Ci).	2+75 and 3+35
P4	1,1,1-trichloroethane Acetone Trichloroethylene Toluene Xylene	PERAIISR007/12/63810/ Organic waste and residue in drums of absorbent, 42 full, and two empty drums (unknown isotope, 1.4 Ci).	2+90 from west end, 0+80 from north side.
P4	1,1,1-trichloroethane Acetone Trichloroethylene Toluene Xylene	PERAIISR007/19/63800/ Organic waste, cardboard, wood, steel, two full drums, and empty drums (unknown isotope, 100 mCi).	300 ft from west end, 180 ft from north side.
P4	1,1,1-trichloroethane Acetone Trichloroethylene Toluene Xylene	PERAIISR008/03/63742/ Organic waste and residue, empty drums, steel and wood, miscellaneous scrap (unknown isotope, 50 mCi).	200 ft from west end, 80 ft from north side.

A-1.8 Test Area North

Test Area North was designed and constructed in the early 1950s to support the Aircraft Nuclear Propulsion Program. After the end of the Aircraft Nuclear Propulsion Program, the TAN Hot Cells were used primarily for the Loss-of-Fluid Tests. The Stationary Low-Power Reactor No. 1 (SL-1) was disassembled for examination in the TAN Hot Shop. The TAN Hot Shop and hot cells were also used for examining two reactor cores included in the Systems for Nuclear Auxiliary Power Transient (SNAPTRAN) tests, the disassembly and examination of the ML-1 Reactor core and the testing and examination of the Portable Medium Nuclear Power Plant (PM-2A) reactor vessel.

A-1.8.1 TAN-603-1H

Description: This waste stream consists of contaminated piping and insulation. The TAN Service Building and Steam Plant are designated as TAN-603.

Disposal dates: 1963–1971

Waste stream volume: 47.1 m³

Nonradiological contaminants in HDT: None

Shipments assigned to this waste stream appear to have been sent to the RFP TRU pits; however, no suspect hazardous contaminants were identified.

A-1.8.2 TAN-607-1H

Description: This waste stream consists of contaminated parts from the General Electric, Aircraft Nuclear Propulsion Heat Transfer Reactor Experiment (HTRE) -I Initial Engine Test (IET) 3, 4, and 6 tests. It includes contaminated stainless steel engine parts, insulation shrouds, and contaminated rags and paper used in decontamination packaged in fiberboard or metal barrels. The TAN Hot Shop, Manufacturing, and Assembly are designated as TAN-607.

Disposal dates: 1956

Waste stream volume: Unknown

Nonradiological contaminants in HDT: Nickel, chromium

No shipments assigned to this waste stream appear to have been sent to the RFP TRU pits.

A-1.8.3 TAN-607-2H

Description: This waste stream consists of contaminated parts from the General Electric, Aircraft Nuclear Propulsion HTRE-II testing, IET 8 through 26, packaged in fiberboard or metal barrels.

Disposal dates: 1957–1961

Waste stream volume: Unknown

Nonradiological contaminants in HDT: Beryllium oxide

Shipments assigned to this waste stream appear to have been sent to the RFP TRU pits; however, no suspect hazardous contaminants were identified.

A-1.8.4 TAN-607-3H

Description: This waste stream consists of activated SL-1 Reactor parts contaminated during the SL-1 Reactor accident of January 3, 1961, and activated experiment and fuel-element-associated stainless steel. Table A-34 lists shipments with suspect hazardous contaminants from TAN-607-3H.

Disposal dates: 1962–1963

Waste stream volume: 653 m³

Nonradiological contaminants in HDT: Beryllium (1962), lead (1962), mercury (1962), ether (1962)

Table A-34. Waste stream TAN-607-3H shipments with suspect hazardous contaminants.

Pit	Contaminant	Shipping Document Identification Number and Shipment Description	Burial Location
P2	Lead	TAN607SR010/11/62800100/ Stainless and Lead (unknown isotope, 0.02 Ci)	240 ft east of west pit marker.

A-1.8.5 TAN-607-4H

Description: This waste stream consists of reactor and auxiliary components from the ML-1 Reactor, PM-2A, and two SNAPTRAN systems. The majority of the waste stream is routine radioactive waste, paper, cloth, and plastic contaminated during decontamination. Table A-35 lists shipments with suspect hazardous contaminants from TAN-607-4H.

Disposal dates: 1964–1966

Waste stream volume: 255 m³

Nonradiological contaminants in HDT: Beryllium, lead

Table A-35. Waste stream TAN-607-4H shipments with suspect hazardous contaminants.

Pit	Contaminant	Shipping Document Identification Number and Shipment Description	Burial Location
P5	Lead	TAN607SR007/31/64125/ Lead and steel scrap, 24 germanium-actuator-rod scrap (unknown isotope, 1.7 mCi)	100 ft south of northwest marker.
P6	Lead	TAN607SR006/07/68800/ Lead and steel scrap, 24 germanium-actuator-rod scrap (unknown isotope, 1.7 mCi)	20-30 ft north and 70-80 ft west of the southeast monument.

A-1.8.6 TAN-607-5H

Description: This waste stream is the result of a myriad of manufacturing, assembly, health physics, and Hot Shop activities associated with TAN programs. Table A-36 lists shipments with suspect hazardous contaminants from TAN-607-5H.

Disposal dates: 1967–1983

Waste stream volume: 7208 m³

Nonradiological contaminants in HDT: Mercury (1962), lead (1980–1984)

Comment: The mercury is in canned mud in a 120 ft³ container. Shipping documents show that this mercury waste was buried in Trenches 25 and 27 during 1962.

Table A-36. Waste stream TAN-607-5H shipments with suspect hazardous contaminants.

Pit	Contaminant	Shipping Document Identification Number and Shipment Description	Burial Location
P10	Lead	TAN607SR001/12/70810/ Metal source cask mounted on wooden platform (RWMIS lead) (unknown isotope < 0.1 mCi).	380 ft west and 75 ft south of northeast pit marker.

RWMIS = Radioactive Waste Management Information System

A-1.8.7 TAN-607-6H

Description: This waste stream is minor, unidentified radioactive waste from the Technical Support Facility area packaged in wooden boxes.

Disposal dates: 1983

Waste stream volume: 70.7 m³

Nonradiological contaminants in HDT: None

No shipments assigned to this waste stream appear to have been sent to the RFP TRU pits.

A-1.8.8 TAN-633-1H

Description: This waste stream consists of Radiation Measurement Laboratory hot cell samples and specimens of fuel assemblies from HTRE-I IET 3, 4, and 6 tests and pieces of slag formed by high temperature melting of VO₂ and nichrome clad combing. The Hot Cell Annex is designated as TAN-633.

Disposal dates: 1956

Waste stream volume: Unknown

Nonradiological contaminants in HDT: Nickel, chromium

No shipments assigned to this waste stream appear to have been sent to the RFP TRU pits.

A-1.8.9 TAN-633-2H

Description: This waste stream consists of metallurgical samples and specimens from HTRE-II insert tests.

Disposal dates: 1957–1961

Waste stream volume: Unknown

Nonradiological contaminants in HDT: Beryllium

No shipments assigned to this waste stream appear to have been sent to the RFP TRU pits.

A-1.8.10 TAN-633-3H

Description: This waste stream consists of metallurgical samples and specimens examined and discarded from Radiation Measurements Laboratory Hot Cells resulting from the SL-1 accident.

Disposal dates: 1963

Waste stream volume: 85 m³

Nonradiological contaminants in HDT: None

A shipment assigned to this waste stream appears to have been sent to the RFP TRU pits; however, no suspect hazardous contaminants were identified.

A-1.8.11 TAN-633-4H

Description: This waste stream consists of metallurgical samples and specimens from the examination of the ML-1 Reactor, PM-2A, and the two SNAPTRAN systems. Filters are also included. Table A-37 lists shipments with suspect hazardous contaminants from waste stream TAN-633-4H.

Disposal dates: 1964–1966

Waste stream volume: 162 m³

Nonradiological contaminants in HDT: Nickel (1966), chromium (1966), sodium potassium (1966), trimethyl-propane-triester (1966)

Table A-37. Waste stream TAN-633-4H shipments with suspect hazardous contaminants.

Pit	Contaminant	Shipping Document Identification Number and Shipment Description	Burial Location
P4	?	TAN633SR005/02/661/ ML-1 Reactor skid and shielding (unknown isotope, 20 Ci) (Shielding implies the possible presence of lead).	310 ft west of southeast monument.

A-1.8.12 TAN-633-5H

Description: This waste stream consists of waste from hot cells abutting TAN-607 with remote handling equipment for examining radioactive material.

Disposal dates: 1963–1970

Waste stream volume: 521 m³

Nonradiological contaminants in HDT: None

Shipments assigned to this waste stream appear to have been sent to the RFP TRU pits; however, no suspect hazardous contaminants were identified.

A-1.8.13 TAN-640-1H

Description: This waste stream consists of rags, plastic, and on radium-beryllium neutron source from the Water Reactor Research Test Facility test building.

Disposal dates: Unknown

Waste stream volume: Unknown

Nonradiological contaminants in HDT: Beryllium

No shipments assigned to this waste stream appear to have been sent to the RFP TRU pits.

A-1.8.14 TAN-UNK-1H

Description: This waste stream consists of miscellaneous waste from an undetermined building at TAN. It includes six pieces of Engineering Test Reactor shim stock, 3 PU-coated disks, miscellaneous Pu waste and 5 cc of undefined liquid.

Disposal dates: 1966–1970

Waste stream volume: 17.6 m³

Nonradiological contaminants in HDT: None

No shipments assigned to this waste stream appear to have been sent to the RFP TRU pits.

A-1.9 Test Reactor Area

The major facilities at TRA are the test reactors: the Materials Test Reactor (MTR) operating from 1952–1970, the Engineering Test Reactor operating from 1957–1981, and the Advanced test Reactor that began operating in 1969. The TRA also had hot cells and various laboratories operating during the time period covered by this report.

A-1.9.1 TRA-602

Description: No waste stream from the HDT could be identified for shipments from this source.

Disposal dates: NA

Waste stream volume: NA

Nonradiological contaminants in HDT: NA

Shipments with shipment document IDs indicating TRA-602 as the source of the waste were sent to the RFP TRU pits; however, these shipments did not appear to contain suspect hazardous contaminants.

A-1.9.2 TRA-603-1H

Description: This waste stream consists of resins packaged in cardboard boxes. The Material Test Reactor Building is designated as TRA-603.

Disposal dates: 1952–1982

Waste stream volume: 586 m³

Nonradiological contaminants in HDT: None

No shipments assigned to this waste stream appear to have been sent to the RFP TRU pits.

A-1.9.3 TRA-603-3H

Description: This waste stream consists of irradiated end boxes packaged in metal drums.

Additional Sources: TRA-642

Disposal dates: 1961–1965

Waste stream volume: 20.9627 m³

Nonradiological contaminants in HDT: None

No shipments assigned to this waste stream appear to have been sent to the RFP TRU pits.

A-1.9.4 TRA-603-4H

Description: This waste stream consists of core and loop components, loop piping, stainless steel and aluminum pieces, and end-pile tubes or end boxes from fuel elements.

Disposal dates: 1961–1970

Waste stream volume: 17.26 m³

Nonradiological contaminants in HDT: None

Shipments assigned to this waste stream appear to have been sent to the RFP TRU pits; however, no suspect hazardous contaminants were identified.

A-1.9.5 TRA-603-5H

Description: This waste stream consists of uranium in metal packaged in cardboard and wooden boxes.

Additional Sources: TRA-604, TRA-614, TRA-626, TRA-654, TRA-661, and TRA-666

Disposal dates: 1971–1980

Waste stream volume: 7.439 m³

Nonradiological contaminants in HDT: None

A shipment assigned to this waste stream appears to have been sent to the RFP TRU pits; however, no suspect hazardous contaminants were identified.

A-1.9.6 TRA-603-6H

Description: This waste stream consists of sludge.

Additional Sources: TRA-624, TRA-642, and TRA-670

Disposal dates: 1961–1981

Waste stream volume: 78.4726 m³

Nonradiological contaminants in HDT: None

Shipments assigned to this waste stream appear to have been sent to the RFP TRU pits; however, no suspect hazardous contaminants were identified.

A-1.9.7 TRA-603-7H

Description: This waste stream consists of glass bottles and pieces.

Disposal dates: 1960–1968

Waste stream volume: 3.34 m³

Nonradiological contaminants in HDT: None

No shipments assigned to this waste stream appear to have been sent to the RFP TRU pits.

A-1.9.8 TRA-603-8H

Description: This waste stream consists of radioactive sources.

Disposal dates: 1961–1972

Waste stream volume: 1.897 m³

Nonradiological contaminants in HDT: None

No shipments assigned to this waste stream appear to have been sent to the RFP TRU pits.

A-1.9.9 TRA-603-9H

Description: This waste stream consists of irradiated fuel.

Additional Sources: TRA-632, TRA-642, AND TRA-670

Disposal dates: 1960–1977

Waste stream volume: 2,497.7 m³

Nonradiological contaminants in HDT: None

No shipments assigned to this waste stream appear to have been sent to the RFP TRU pits.

A-1.9.10 TRA-603-10H

Description: This waste stream consists of asbestos.

Disposal dates: 1960

Waste stream volume: 28.3 m³

Nonradiological contaminants in HDT: Asbestos

No shipments assigned to this waste stream appear to have been sent to the RFP TRU pits.

A-1.9.11 TRA-603-11H

Description: This waste stream consists of meat contaminated with botulinus.

Disposal dates: 1961

Waste stream volume: 0.0016 m³

Nonradiological contaminants in HDT: None

No shipments assigned to this waste stream appear to have been sent to the RFP TRU pits.

A-1.9.12 TRA-603-12H

Description: This waste stream consists of vermiculite.

Additional Sources: TRA-642

Disposal dates: 1962–1973

Waste stream volume: 0.337 m³

Nonradiological contaminants in HDT: None

No shipments assigned to this waste stream appear to have been sent to the RFP TRU pits.

A-1.9.13 TRA-603-13H

Description: This waste stream consists of filters. TRA-603 is the Material Test Reactor Building.

Disposal dates: 1960–1973

Waste stream volume: 0.193 m³

Nonradiological contaminants in HDT: None

Shipments assigned to this waste stream appear to have been sent to the RFP TRU pits; however, no suspect hazardous contaminants were identified.

A-1.9.14 TRA-603-14H

Description: This waste stream consists of continuous air monitors.

Disposal dates: 1977

Waste stream volume: 0.128 m³

Nonradiological contaminants in HDT: None

No shipments assigned to this waste stream appear to have been sent to the RFP TRU pits.

A-1.9.15 TRA-603-15H

Description: This waste stream consists of metal: aluminum, stainless steel, zircaloy, beryllium, and cadmium. Table A-38 lists shipments with suspect hazardous contaminants from TRA-603-15H.

Disposal dates: 1960–1983

Waste stream volume: 38.2 m³

Nonradiological contaminants in HDT: Beryllium (1960, 1962, 1963, 1969, 1970), Cadmium (1960, 1962, 1963, 1969, 1970)

Table A-38. Waste stream TRA-603-15H shipments with suspect hazardous contaminants.

Pit	Contaminant	Shipping Document Identification Number and Shipment Description	Burial Location
P10	Beryllium	TRA603SR005/11/70830/ Aluminum BF grid and upper support casting (RWMIS: content code beryllium) (unknown isotope, 2.5 Ci) (Note: description probably should be beryllium not BF).	325 ft west and 70 ft south of northeast monument.

RWMIS = radioactive Waste Management Information System

A-1.9.16 TRA-603-16H

Description: This waste stream consists of paper.

Additional Sources: TRA-632, TRA-642, TRA-653, TRA-661, and TRA-670

Disposal dates: 1960–1977

Waste stream volume: 29.9 m³

Nonradiological contaminants in HDT: None

Shipments assigned to this waste stream appear to have been sent to the RFP TRU pits; however, no suspect hazardous contaminants were identified.

A-1.9.17 TRA-603-17H

Description: This waste stream consists of dirt. Table A-39 lists shipments with suspect hazardous contaminants from TRA-603-17H.

Additional Sources: TAN-632, TAN-642, TAN-647, TAN-657, TAN-662, and TAN-670

Disposal dates: 1960–1977

Waste stream volume: 4.45 m³

Nonradiological contaminants in HDT: None

Table A-39. Waste stream TRA-603-17H shipments with suspect hazardous contaminants.

Pit	Contaminant	Shipping Document Identification Number and Shipment Description	Burial Location
P5	Acid	TRA603SR011/11/66210/ Acid contaminated soil from TRA (unknown isotope, 1 μCi)	195 ft north and 10 ft west of southwest monument.

TRA = Test Reactor Area

A-1.9.18 TRA-603-18H

Description: This waste stream consists of rags, floor sweepings, and glassware.

Additional Sources: TRA-632, TRA-642, TRA-653, TRA-6612, TRA-670

Disposal dates: 1960–1970

Waste stream volume: 52.29 m³

Nonradiological contaminants in HDT: None

Shipments assigned to this waste stream appear to have been sent to the RFP TRU pits; however, no suspect hazardous contaminants were identified.

A-1.9.19 TRA-603-19H

Description: This waste stream consists of concrete, asphalt, brick, metals, and wood.

Disposal dates: 1975–1981

Waste stream volume: 47.73 m³

Nonradiological contaminants in HDT: None

No shipments assigned to this waste stream appear to have been sent to the RFP TRU pits.

A-1.9.20 TRA-603-20H

Description: This waste stream consists of consists of wood.

Additional Sources: TRA-632, TRA-642, and TRA-670

Disposal dates: 1960–1977

Waste stream volume: 29.76 m³

Nonradiological contaminants in HDT: None

Shipments assigned to this waste stream appear to have been sent to the RFP TRU pits; however, no suspect hazardous contaminants were identified.

A-1.9.21 TRA-603-21H

Description: This waste stream consists of consists of construction materials, concrete block, sand and soil.

Disposal dates: 1960–1978

Waste stream volume: 399 m³

Nonradiological contaminants in HDT: None

Shipments assigned to this waste stream appear to have been sent to the RFP TRU pits; however, no suspect hazardous contaminants were identified.

A-1.9.22 TRA-603-22H

Description: This waste stream consists of consists of rags, floor sweepings, and glassware.

Additional Sources: TRA-604, TRA-614, TRA-624, TRA-632, TRA-642, TRA-647, TRA-653, TRA-657, TRA-662, and TRA-670

Disposal dates: 1971–1983

Waste stream volume: 1,204.0978 m³

Nonradiological contaminants in HDT: None

No shipments assigned to this waste stream appear to have been sent to the RFP TRU pits.

A-1.9.23 TRA-603-23H

Description: This waste stream consists of consists of terphenyl (Santo-wax), an organic moderator, used in loops.

Disposal dates: 1965

Waste stream volume: 100 gal

Nonradiological contaminants in HDT: Terphenyl

No shipments assigned to this waste stream appear to have been sent to the RFP TRU pits.

A-1.9.24 TRA-603-24H

Description: This waste stream consists of consists of steel gas bottles.

Disposal dates: 1964

Waste stream volume: 0.175 m³

Nonradiological contaminants in HDT: Ammonia

No shipments assigned to this waste stream appear to have been sent to the RFP TRU pits.

A-1.9.25 TRA-603-25H

Description: This waste stream consists of sodium metal. TRA-603 is the Material Test Reactor Building.

Disposal dates: 1960

Waste stream volume: 0.0128 m³

Nonradiological contaminants in HDT: Sodium

No shipments assigned to this waste stream appear to have been sent to the RFP TRU pits.

A-1.9.26 TRA-603-26H

Description: This waste stream consists of lead from the MTR. Table A-40 lists shipments with suspect hazardous contaminants from TRA-603-26H.

Disposal dates: 1960–1963

Waste stream volume: 3.27 m³

Nonradiological contaminants in HDT: Lead

Table A-40. Waste stream TRA-603-26H shipments with suspect hazardous contaminants.

Pit	Contaminant	Shipping Document Identification Number and Shipment Description	Burial Location
P3	Lead	TRA603SR006/05/61800100/ Six wooden boxes containing lead and steel removal equipment from old Knolls Atomic Power Laboratory 30 loop at MTR, including cask, water tanks, shielding, tables, miscellaneous metal parts (unknown isotope; <0.1 total curies).	0+15 ft north and 0+05 ft east. run 20 ft north.
P3	Lead	TRA653SR001/19/6281091/ Unknown number of poly and wood containers containing scrap lead (unknown isotope; 0.0001 total curies).	1+10 ft south and 0+50 ft west.

Table A-40. (continued).

Pit	Contaminant	Shipping Document Identification Number and Shipment Description	Burial Location
P10	Lead	TRASR004/16/71245/ Blocks, scrap equipment, stainless steel, lead (MFP, 0.0275 Ci).	280 to 300 ft west and 0 to 30 ft south.
P10	Lead	TRASR004/20/71250/ Stainless steel, lead shielding block, black iron, boxes, other scrap equipment (unknown isotope, 0.0825 Ci).	280 to 300 ft west and 20 to 40 ft south of northeast monument.
P10	Lead	TRASR004/21/71252/ Black iron, lead shielding, blocks, pallets, scrap equipment (unknown isotope, 0.0385 Ci).	280 to 300 ft west and 10 to 30 ft south of northeast monument.

A-1.9.27 TRA-617

Description: No waste stream from the HDT could be identified for shipments from TRA-617, which was a warehouse that was demolished in 1987.

Disposal dates: NA

Waste stream volume: NA

Nonradiological contaminants in HDT: NA

Shipments with shipment document IDs indicating TRA-617 as the source of the waste were sent to the RFP TRU pits; however, these shipments did not appear to contain suspect hazardous contaminants.

A-1.9.28 TRA-618

Description: No waste stream from the HDT could be identified for shipments from TRA-618, which is a steel-framed warehouse that was shut down in April 2000, pending transfer.

Disposal dates: NA

Waste stream volume: NA

Nonradiological contaminants in HDT: NA

Shipments with shipment document IDs indicating TRA-618 as the source of the waste were sent to the RFP TRU pits; however, these shipments did not appear to contain suspect hazardous contaminants.

A-1.9.29 TRA-632-1H

Description: This waste stream consists of core structural pieces and scrap metal from the hot cell building. The Engineering Test Reactor Building is designated as TRA-642.

Disposal dates: 1962–1983

Waste stream volume: 60.71 m³

Nonradiological contaminants in HDT: None

Shipments assigned to this waste stream appear to have been sent to the RFP TRU pits; however, no suspect hazardous contaminants were identified.

A-1.9.30 TRA-642-1H

Description: This waste stream consists of fission chambers with foils. The Engineering Test Reactor Building is designated as TRA-642.

Disposal dates: 1969–1975

Waste stream volume: 0.0024 m³

Nonradiological contaminants in HDT: None

No shipments assigned to this waste stream appear to have been sent to the RFP TRU pits.

A-1.9.31 TRA-642-2H

Description: This waste stream consists of insulation.

Additional Sources: TRA-706

Disposal dates: 1962–1975

Waste stream volume: Unknown

Nonradiological contaminants in HDT: None

Shipments assigned to this waste stream appear to have been sent to the RFP TRU pits; however, no suspect hazardous contaminants were identified.

A-1.9.32 TRA-642-3H

Description: This waste stream consists of hydrofluoric acid solidified and neutralized as NaF.

Disposal dates: 1962

Waste stream volume: 0.008 m³

Nonradiological contaminants in HDT: None

No shipments assigned to this waste stream appear to have been sent to the RFP TRU pits

A-1.9.33 TRA-642-4H

Description: This waste stream consists of rags, paper, and wipes.

Additional Sources: TRA-603 and TRA-670

Disposal dates: 1966–1982

Waste stream volume: 3.4 m³

Nonradiological contaminants in HDT: None

No shipments assigned to this waste stream appear to have been sent to the RFP TRU pits

A-1.9.34 TRA-642-5H

Description: This waste stream consists of irradiated fuel rods.

Disposal dates: 1960

Waste stream volume: 0.128 m³

Nonradiological contaminants in HDT: None

No shipments assigned to this waste stream appear to have been sent to the RFP TRU pits.

A-1.9.35 TRA-642-6H

Description: This waste stream consists of scrap metal pieces from underwater cutting in the canals. Table A-41 lists shipments with suspect hazardous contaminants from TRA-642-6H.

Disposal dates: 1964–1977

Waste stream volume: 40.74 m³

Nonradiological contaminants in HDT: None

Table A-41. Waste stream TRA-642-6H shipments with suspect hazardous contaminants.

Pit	Contaminant	Shipping Document Identification Number and	
		Shipment Description	Burial Location
P9	Lead	TRA642SR009/05/68810100/ Stainless steel and lead (unknown isotope, <0.001 Ci).	170 ft south of northeast monument.

A-1.9.36 TRA-642-7H

Description: This waste stream consists of various combustible materials.

Disposal dates: 1965

Waste stream volume: 0.107 m³

Nonradiological contaminants in HDT: None

No shipments assigned to this waste stream appear to have been sent to the RFP TRU pits.

A-1.9.37 TRA-647

Description: No waste stream from the HDT could be identified for shipments from this source.

Disposal dates: NA

Waste stream volume: NA

Nonradiological contaminants in HDT: NA

Shipments with shipment document IDs indicating TRA-647 as the source of the waste were sent to the RFP TRU pits; however, these shipments did not appear to contain suspect hazardous contaminants.

A-1.9.38 TRA-653-1H

Description: This waste stream consists of benzene, also known as ligroin, a highly flammable liquid that is toxic if ingested or inhaled. It is probably in a polystyrene bottle.

Disposal dates: 1965

Waste stream volume: 0.0038 gal

Nonradiological contaminants in HDT: Benzene

No shipments assigned to this waste stream appear to have been sent to the RFP TRU pits.

A-1.9.39 TRA-661

Description: There was no waste stream from the HDT that could be identified for shipments from this source.

Disposal dates: NA

Waste stream volume: NA

Nonradiological contaminants in HDT: NA

Shipments with shipment document IDs indicating TRA-661 as the source of the waste were sent to the RFP TRU pits but these shipments did not appear to contain suspect hazardous contaminants. The Radiochemistry Laboratories are designated as TRA 661.

A-2. RESULTS BY DISPOSAL SITE

No data are listed for Pits 11 or 12 because no shipments containing suspect hazardous contaminants were identified as being buried in Pits 11 or 12. Areas and volumes of the pits were taken from the Ancillary Basis for Risk Assessment (Holdren et al. 2002).

A-2.1 Pit 2

Pit 2 was open for disposal from October 1, 1959, to 1963. Pit 2 has an area of 7,286 m² (78,425 ft²) and volume, including overburden, of 31,000 m³ (1,100,00 ft³). The liquid residues for waste stream OFF-UOW-1H may include 3-methyl-cholanthrene, diisopropyl-fluoro-phosphate, benzene, CCl₄, or methyl alcohol. Table A-42 lists shipments with suspect hazardous contaminants from Pit 2.

Table A-42. Shipments to Pit 2 with suspect hazardous contaminants.

Waste Stream	Contaminant	Shipping Document Identification Number and Shipment Description	Burial Location
ARA-602-3H	Asbestos	ARA602SR004/16/6381020/ Cast iron ruptured water pump (unknown isotope, <1 µCi) (RWMIS content code iron, asbestos).	1+00 east of west pit marker.
ARA-616-1H	Lead	ARA616SR010/17/6280030/ Aluminum, stainless steel lead and rubber (unknown isotope, 0.05 Ci).	240 ft east of west pit marker.
CFA-690-1H	Mercury	CFA690SR010/11/6281000/ Mercury batteries	300 ft east of west pit marker.
NRF-618-1H	Hydrofluoric acid	NRF618SR008/21/6280015050/ Rags, blotting paper, dissolution waste absorbed in Vermiculite filled poly bottles (unknown isotope, 200 mCi)	465 ft west and 60 ft south of northeast Pit 2 marker.
NRF-618-5H	Zirconium	NRF618SR009/27/628006000100/ Cell 7 liner and components. Cask containing solid Zr-95 scrap metal, all items sufficiently wrapped (unknown isotope, 40 Ci)	450 ft east of northwest pit marker
OFF-AEI-1H	Lead	OFFAEISR103/01/61800150/ 13 55-gal barrels contain unused sources of Co-60 and Ce-144-Pr-144 encased in concrete and lead. (2) 37 55-gal barrels contain contaminated laboratory equipment and waste or contaminated asphalt and soil (unknown weight for Ce-144, Pr-144, Co-60, Sr-90, Yr-90, Kr-85, Cs-137; curie amount Co-60 = 4.1 curies; Ce-144 and Pr-144 = 0.9 curies; Kr-85 = 1.3, Cs-137 = 0.013 curies; Sr-90 and Yr-90 = 1 mCi.)	31 barrels begin at a point 84 ft west and 45 ft north of southeast pit marker. Runs 25 ft north - Barrel Row #24. 19 Barrels begin at a point 87 ft west and 78 ft north of southeast marker. Runs 15 ft north. Barrel Row #25.
OFF-ATI-1H	Beryllium oxide	OFFATISR107/14/60800NA/ Unknown number of containers containing mixed fission products. Contains beryllium oxide (unknown isotope; 0.005 total curies)	See map in shipping document for location
OFF-ATI-1H	Beryllium oxide	26 wooden boxes containing radioactively contaminated sheet metal and ducting: 1 mCi MFP per box. (Two wooden boxes, containing beryllium oxide-contaminated ducting and sheet metal. One wooden box containing radioactively contaminated ductwork 1 mCi MFP. One wooden box, containing radioactively contaminated ductwork 1 mCi MFP. (MFPs; Each package has <0.00135 total curies)	See map in shipping document for location
OFF-ATI-1H	Beryllium oxide	OFFATISR107/14/608200/ 26 wooden boxes containing radioactively contaminated sheet metal and ducting: 1 mCi MFP per box. Two wooden boxes, containing beryllium oxide-contaminated ducting and sheet metal. One wooden box 1 containing radioactively contaminated ductwork; 1 mCi MFP. One wooden box containing radioactively contaminated ductwork; 1 mCi MFP. Contains beryllium oxide. (MFPs; Each package has <0.00135 total curies)	See map in shipping document for location

Table A-42. (continued).

Waste Stream	Contaminant	Shipping Document Identification Number and Shipment Description	Burial Location
OFF-ATI-1H	Beryllium oxide	OFFATISR107/18/608000/ One wooden Boxes containing radioactively contaminated sheet metal and ducting. One wooden box containing beryllium oxide-contaminated filter housing. One wooden box containing beryllium oxide-contaminated bag filters. One wooden box containing beryllium oxide-contaminated roto-clone. Three wooden boxes containing radioactively contaminated filter housings. One wooden box containing radioactively contaminated fume housing. Two wooden boxes containing one radioactively contaminated fume hood. One wooden box containing beryllium oxide and radioactively contaminated hydraulic press. One wooden box containing beryllium oxide-contaminated laboratory waste material. One wooden box, containing radioactively contaminated sheet metal, dusting, and blower. Two wooden boxes containing radioactively contaminated filter housings. One wooden box containing radioactively contaminated filter housing. (MFPs; Each package has <0.00135 total curies)	See map in shipping document for location
	Beryllium oxide	OFFATISR107/18/608100/ Unknown number of containers containing mixed fission products. Contains beryllium oxide (unknown isotope; 0. OFF-ATI-1H 008 total curies)	See map in shipping document for location
OFF-ATI-1H	Beryllium oxide	OFFATISR107/18/608200/ Unknown number of containers containing MFPs. Contains beryllium oxide (unknown isotope; 0.009 total curies)	See map in shipping document for location
OFF-ATI-1H	Beryllium oxide	OFFATISR107/18/608300/ Unknown number of containers containing mixed fission products. Contains beryllium oxide (unknown isotope; 0.004 total curies)	See map in shipping document for location
OFF-ATI-1H	Beryllium oxide	OFFATISR107/20/608000/ 100 55-gal drums (radioactive material, nos tile, metal and laboratory trash) 1 mCi MFP per drum. (2) One wooden box, 14 ft × 3 ft 8 in. × 4 ft 1 in. Box contains Beryllium Oxide (unknown isotope; Each package has <0.00135 total curies)	Row 19 (west end) 20 (east end)
OFF-ATI-1H	Beryllium oxide	OFFATISR107/20/608100/ 29 55-gal drums radioactive material, nos (tile, metal and laboratory trash) 1 mCi per drum. Associated hazards: Beryllium oxide (MFPs; Each package has <0.00135 total curies)	Row 20 (east end)
OFF-ATI-1H	Beryllium	OFFATISR111/28/60800200/ 124 55-gal drums containing unknown contents, "may contain beryllium in microgram quantities" (unknown weight of mixed fission products; <2.7 curies per container)	Rows 31, 32, 33, 34; north from monument 155 to 165 ft, west 35 to 80 ft

Table A-42. (continued).

Waste Stream	Contaminant	Shipping Document Identification Number and Shipment Description	Burial Location
OFF-ATI-1H	Lead Beryllium	OFFATISR104/26/61800200/136 55-gal steel drums of compressed dry waste. The waste is covered with a concrete cap. 4 55-gal drums are similar to the above, except the contents are a lead cask surrounded by concrete. 2 55-gal drums contain a lead cask. The cask is surrounded on all sides with concrete. The container has a lock on steel lid. 55 conduits, 3 ft diameter × 4 ft high or 4 ft diameter × 4 ft high. The conduits contain a 30-gal drum or other primary container surrounded by concrete. One wooden box containing a wash trough centered in the box and surrounded by reinforced concrete. 2 55-gal drums packaged similar to the above except contents are solidified liquid waste. 8 55-gal drums with permanent lids containing bungs. The packages are filled with solidified liquid waste. 33 55-gal drums of solidified liquid waste that is stainless steel accountable. 181 55-gal drums containing compressed dry waste. 20 wooden containers containing dry waste (unknown weight for MFPs, stainless steel. Material, beryllium; 25.41 total curies)	Begins at a point 115 ft west and 50 ft north from southeast pit marker. Runs 50 ft north, 120 ft west, 25 ft south, 100 ft east, 25 ft south, 20 ft east to beginning
OFF-ATI-1H	Lead	OFFATISR104/26/6181020022/ 31 55-gal steel drums containing a lead cask surrounded by concrete. The concrete is covered with a steel lid and the lip of the drum is crimped to retain the lid. 6 55-gal drums (ICC 6-C) containing a lead cask surrounded by concrete. The lid is a steel lock-on type. 11 Conduits – 3 ft diameter × 4 ft high or 4 ft × 4 ft The conduits contain a 30-gal drum or other primary container enclosed in concrete (unknown weight for Mixed Fission Product; 11,533.58 total curies)	Begins at a point 115 ft west and 50 ft north from southeast pit marker. Runs 50 ft north, 120 ft west, 25 ft south, 100 ft east, 25 ft south, 20 ft east to Begin
OFF-ATI-1H	Lead Beryllium	OFFATISR108/07/618002000/ 299 55-gal steel drums containing compressed dry waste. The lid is a lock-on type (steel). 77 wooden boxes of various dimensions containing dry waste. 27 conduits – 3 ft diameter × 4 ft high or 4 ft diameter × 4 ft high. Conduits contain 30-gal drum or other primary container encased in concrete. 10 55-gal drums containing a lead pig encased in concrete. 9 Wooden boxes filled with concrete. 22 in. square by 103 in. long. Contains dry waste. 1 6 × 6 cask. Steel shell containing high density concrete. Package contains SNAP reactor shield plug including Plutonium-beryllium source. 12 55-gal drum containing compressed dry waste. Waste is covered by a concrete cap. One 55-gal drum containing compressed dry or solidified liquid waste that is stainless steel accountable. Some drums are covered by a concrete cap. The remainder are enclosed by a lock-on lid. (steel) (unknown weight for MFPs, U-235, beryllium, plutonium-beryllium source; 7,751 total curies)	Begin at a point 200 ft west and 20 ft north from southeast pit marker run 60 ft north and 6 ft west also 215 ft west and 20 ft north from marker run 60 ft north and 3 ft west Boxes at 197 ft west and 0 ft north run 20 ft north and 18 ft west also at a point 218 ft west and 45 ft north run 30 ft north and 90 ft W.

Table A-42. (continued).

Waste Stream	Contaminant	Shipping Document Identification Number and Shipment Description	Burial Location
OFF-ATI-1H	Lead	OFFATISR112/01/6180020022/ 55-gal steel drums containing compressed dry waste. The lid is a steel lock-on type. Wooden Boxes of various dimensions containing dry waste. The gross weight exceeds ICC specifications. Conduits 3 ft diameter × 4 ft high or 4 × 4 ft containing 30-gal drum or other primary container encased in concrete. 55-gal drum containing a lead pig encased in concrete. (C-81, C-237) Dry waste encased in a concrete filled wooden box. 55-gal drum-contains solidified liquid waste covered by concrete cap. (55-gal steel drums containing stainless steel. Materials (unknown weight for MFPs, U-235, U-238, thorium, beryllium; 801 total curies)	Begin 18 ft west and 0 ft north from southeast pit marker fun 18 ft west and 20 ft north. Begin 54 ft west and 0 ft north run 120 ft west and 20 ft north. Begin 303 ft west and 20 ft north run 6 ft west and 30 ft north. Begin 333 ft west and 20 ft north run 39 ft west and 25 ft N
OFF-ATI-1H	Lead	OFFATISR110/03/6280060/ 85 55-gal drums that contain compressed dry or solidified stainless steel accountable liquid radioactive by-product waste materials. 55 conduits - packages are 3 ft diameter by 4 ft long pipe sections. Each contains a lead wrapped 30-gal drum, encased in reinforced concrete. These packages contain dry radioactive by-product waste materials. Six Boxes - packages are concrete boxes containing dry radioactive by-product waste materials surrounded by concrete containing steel reinforcing bars. 33 55-gal drums that contain dry radioactive by-product waste materials in lead inner container encased in steel reinforced concrete (unknown weight for MFP, U-235, thorium, plutonium; 2200.3 total curies)	300 ft east of west pit marker and 240-360 ft east of west pit marker
OFF-GDA-1H	Nitric acid	OFFGDASR105/20/61800200/ 220 55-gal drums and 1 Two wooden boxes containing shoe covers, clothing, towels, hand towels, industrial wipes, scrap metal, scrapwood, scrap glass, fiber glass filters, acid solidified in Portland cement. Dirt, cement, and liquids solidified in plaster. Loose material pressure packed in steel drums or loose packed in wood crates (unknown weight for U-235, U-238, Co-60? and MFP; curie amount <1)	Begins at a point 100 ft west and 20 ft north from southeast pit marker run 60 ft north and 6 ft west Burial Row #33 and 34. Boxes begin at a point 133 ft west and 75 ft north from southeast pit marker run 33 ft west and 11 ft north.
OFF-GDA-1H	Nitric acid	OFFGDASR110/10/62800200/ 140 55-gal drums containing dry, solid state waste, shoe covers, towels, wood, industrial wipes, fiberglass filters, acid solidified and neutralized in cement, scrap metal and glass (unknown weight for U-235, U-238, Th-232, Co-60 and MFPs; <1 total curie)	330 ft east of west pit marker

Table A-42. (continued).

Waste Stream	Contaminant	Shipping Document Identification Number and Shipment Description	Burial Location
OFF-GDA-1H	Nitric acid	OFFGDASR111/15/62810200/ 100 55-gal drums containing dry, solid state waste, shoe covers, towels, wood, industrial wipes, fiberglass filters, acid solidified and neutralized in cement, scrap metal and glass. Items loose pressure packed in drums (unknown weight for U-235, U-238, Th-232, Co-60 and MFPS; <1 total curie)	285 ft east of west pit markers
OFF-GDA-1H	Nitric acid	OFFGDASR112/18/62820200/ 80 55-gal drums containing dry, solid state waste, shoe covers, towels, wood, industrial wipes, fiberglass filters, acid solidified and neutralized in cement, scrap metal and glass (unknown weight for U-235, U-238, Th-232, Co-60 and MFPS; <1 total curie)	240 ft east of west pit marker
OFF-GDA-1H	Nitric acid	OFFGDASR104/30/63800200/ 160 55-gal drums containing low level waste dry solid state - shoe covers, towels, industrial wipes, filters scrap metal and glass - acid neutralized and solidified in Portland cement and vermiculite. (10 g of U-235, unknown weight for U-238, Th-232, Co-60, and MFPS; 0.20 curies)	95 ft east of the west pit markers
OFF-NMR-1H	Magnesium Manganese Sodium Nitrate Anthracene	OFFNMRSR105/11/6180020/ 19 55 gal steel drums containing unknown contents. RWMIS: 1 bbl animal waste, 18 bbl paper equipment (unknown weight for MFPS; Cs-137, Sr-89, Sr-90, Y-90, Y-91, Zn-65, Fe-59, P-32, I-131, RU-106, Co-60, H-3, Ce-144, Ca-45; <0.02 total curies)	Begins at a point 121 ft west and 20 ft north from southeast marker. Runs 50 ft north and 3 ft W
OFF-SAM-2H	Lead	OFFSAMSR110/21/60800150/ One radioactive structure (shield used with Aircraft Shield Test Reactor). The unit is mounted on steel skids and is otherwise impractical to crate or package. Shield is almost entirely lead and stainless steel (unknown weight for Fe, Co; ~<0.1 total curies)	550 west and 25 south northeast
OFF-SAM-2H	Magnesium	OFFSAMSR112/02/6080075/ 50 steel drums and 1 steel box containing Irradiated steel aluminum, copper, tin, plastic, rubber, magnesium-thorium alloy, paper, fiberglass insulation, glass, dirt, mixed trash (unknown weight for iron, cobalt, copper, mag-thor, tin; 0.094 total curies)	Barrel Row #6, Beginning at 21 ft west and 26 ft north and continuing 15 yd north from south east pit marker
OFF-UOW-1H	Lead 3-Methyl- cholanthrene Diisopropyl- fluoro- phosphate Benzene Methyl Alcohol CCl ₄	OFFUOWSR112/12/6180040/ Contains laboratory trash contaminated with miscellaneous radioactive isotopes. Trash includes paper, glass, animal carcasses and lead shielding for Co-60 sources of millicurie size and over. Liquid residues have been mixed with Perlite #2 at rate of 2 volume of Perlite to 1 volumes of liquid to obtain a damp solid aggregated for shipping purposes (unknown weight for Co-60, C-14, H-3 Fe-59, Fe-55, Cr-51, S-35, Ag-1, and MFPS; 0.78 total curies)	Begin at a point 387 ft west and 20 ft north from southeast pit marker run 20 ft north and 3 ft W

Table A-42. (continued).

Waste Stream	Contaminant	Shipping Document Identification Number and Shipment Description	Burial Location
OFF-UOW-1H	3-Methyl-cholanthrene Diisopropyl-fluoro-phosphate Benzene Methyl Alcohol CCl ₄	OFFUOWSR110/10/6080050/ Type A, three steel 55-gal drums with 4-in. concrete cap on top. Type B, 25 steel 5-gal drums with 3-in. concrete cap on top. Type C, 38 welded steel "fuze" box with four clamp-sealed metal lids. Contents: Laboratory trash materials including animal carcasses, glassware, absorbent paper (unknown weight for Fe-59, H-3, C-14, Zn-65, Sr-90, Cr-51, Ca-45, Fe-55, Cs-137; 0.15 total curies, plus or minus 0.06 curies)	145 ft north of monument 40 and 50 ft west
OFF-UOW-1H	3-Methyl-cholanthrene Diisopropyl-fluoro-phosphate Benzene Methyl Alcohol CCl ₄	OFFUOWSR106/09/6180020/ Miscellaneous laboratory trash including (1) animal carcasses packed in lime (2) waste absorbent paper (3) glassware (4) planchets (unknown weight for Sr-89, Mn-54, Co-60, Sn-113, H-3 C-14, S-35, Ca-45, Fe-59, Fe-55, Zn-65, Cr-51; 0.11 total curies 51)	Begin at a point 152 ft west and 90 ft north from southeast pit marker run 6 ft north and 3 ft west Burial Row #50
OFF-UOW-1H	3-Methyl-cholanthrene Diisopropyl-fluoro-phosphate Benzene Methyl Alcohol CCl ₄	OFFUOWSR109/20/62800130/ 12 55-gal drums containing byproduct material contaminated laboratory trash (including animal carcasses, waste paper, broken and intact glassware, wet vermiculite) Packed in ICC-approved steel 55-gal drums (unknown weight for H-3, C-14, Fe-59, Fe-55, Cr-51, Co-60, S-3; 0.103 total curies)	405 ft east and 135 ft north of southwest pit marker
OFF-USN-1H	Formaldehyde	OFFUSNSR108/20/6280010/ Three 55-gal drums containing an ICC-approved drum containing animal carcasses. All carcasses sealed inside double plastic bags, inside drums (unknown weight for C-14; curie amount <0.0012 drum)	Buried 110 yd from northwest pit marker
OFF-USN-1H	Formaldehyde	OFFUSNSR105/09/6380010/ 3 55-gal drums containing animal carcasses. All carcasses sealed inside double plastic bags, inside drums (unknown weight for C-14; <0.0012 total curies/drum)	70 ft east of west pit markers
TAN-607-3H	Lead	TAN607SR010/11/62800100/ Stainless steel and lead (unknown isotope, 0.02 Ci)	240 ft east of west pit marker

ICC = Interstate Commerce Commission
MFP = mixed fission product
RWMIS = Radioactive Waste Management Information System

A-2.2 Pit 3

Pit 3 was open from December 15, 1961, to January 3, 1964. Pit 3 has an area of 3,886 m² (41,830 ft²) and volume, including overburden, of 16,000 m³ (590,000 ft³). Table A-43 lists shipments with suspect hazardous contaminants from Pit 3.

Table A-43. Shipments to Pit 3 with suspect hazardous contaminants.

Waste Stream	Contaminant	Shipping Document Identification Number and Shipment Description	Burial Location
NRF-618-6H	Acetone Benzine	NRF618SR001/26/67820202/ Three 5-gal containers containing acetone and benzine contaminated with active corrosion products (unknown amount of Co-60; 0.2 total curies)	Burial Grounds liquid disposal
NRF-618-6H	Oil	NRF617SR007/11/66151/ Unknown number of metal oil tanks containing low level waste oil (unknown isotope; 1.46E-05 total curies)	Shallow liquid Pit #3
NRF-618-6H	Oil	NRF617SR012/09/66151/ Unknown number of metal oil tanks containing tank of low level waste oil (unknown isotope; 1.46E-06 total curies)	Shallow Liquid Pit #3
NRF-618-6H	Oil	NRF617SR008/02/6781051/ Unknown number of metal oil tanks containing LLW oil. Contamination spread if tanker is broken (unknown isotope; 1.5E-05 total curies)	Liquid Pit #3
NRF-618-6H	Oil	NRF617SR003/25/6880051/ Unknown number of metal oil tanks containing LLW oil. Contamination spread if tank is broken (unknown isotope; 0.0000146 total curies)	Unknown
NRF-618-6H	Oil	NRF617SR005/13/6880051/ Unknown number of metal tanks containing LLW oil. Contamination spread if tanker is broken (unknown weight for Co-60; 1.5E-05 total curies)	Unknown
OFF-DPG-1H	Lead	OFFDPGSR107/15/6280011010/ Five wooden boxes containing lead and scrap metal (unknown weight for Co-60 and P-32, 510 Ci) *15 barrels are listed on same invoice, but with different location. Listed under document ID OFFDP6SR107/15/6281011010. RWMIS: Two wood boxes lead, three wood boxes metal scrap.	100 ft north and 30 ft west of southeast #3 pit marker.
OFF-GDA-1H	Nitric acid	OFFGDASR104/30/628005/ 120 55-gal drums containing dry, solid state waste shoe covers, towels, wood, industrial wipes, fiberglass filters acid solidified and neutralized in cement, scrap metal and glass (unknown weight for: U-235, U-238, Co-60, Th232 and MFPs, < 0.5 Ci)	Begin at point 185 ft south and 0 ft east from northwest pit marker. Run 9 ft south and 90 ft east
OFF-GDA-1H	Nitric acid	OFFGDASR106/28/62800200/ 70 55-gal drums containing dry, solid waste, shoe covers, towels, wood, industrial wipes, fiberglass filters, acid solidified and neutralized in cement, scrap metal and glass. Item loose pressure packed in drums (unknown weight for: U-235, U-238, Co-60, Th-232 < 1 Ci)	Begin at a point 328 ft south of northwest #3 trench marker. Run 60 ft east and 6 ft south.

Table A-43. (continued).

Waste Stream	Contaminant	Shipping Document Identification Number and Shipment Description	Burial Location
OFF-IXE-1H	Lead	OFFIXESR103/07/6280030/ Iridium in lead cask steel encased and welded closed (unknown weight for Iridium 192, 60 curies)	188 ft south and 8 ft east from northwest pit marker.
OFF-UOU-1H	Formaldehyde	OFFUOUSR109/17/6280010/ 50 55-gal drums and 1-wooden box containing radioactive excreta and embalmed dog carcasses mixed in concrete (unknown weight for strontium 90, 10 mCi)	30 ft west and 40 ft north of southeast pit marker.
OFF-USN-1H	Formaldehyde	OFFUSNSR108/20/6281010/ 3 55-gal drums containing animal carcasses. All carcasses sealed inside double plastic bags, inside drums (unknown weight for C-14, <1.2 mCi/drum)	10 ft west and 20 ft north of southeast pit marker
OFF-WSU-1H	Ethyl Alcohol Methyl Alcohol Toluene	OFFWSUSR105/28/6280010/ RWMIS: 8 55-gal drums containing animal carcasses, paper, metal and wood (unknown weight for H-3, C-14, P-32, S-35, Ca-45, Co-60, Zn-65, Sr-8, Rb-86, I-131, Cs-137, Ce-144, Pa-147, Tl204, U-238, <0.01 Ci)	Begin at a point 290 ft south and 50 ft east from northwest pit marker. Run 15 ft east and 3 ft south.
TRA-603-26H	Lead	TRA603SR006/05/61800100/6 wooden boxes containing lead and steel removal equipment from old Knolls Atomic Power Laboratory 30 loop at MTR, including cask, water tanks, shielding, tables, miscellaneous metal parts (unknown isotope; <0.1 total curies)	0+15 ft north and 0+05 ft east run 20 ft north
TRA-603-26H	Lead	TRA653SR001/19/6281091/ Unknown number of poly and wood containers containing scrap lead (unknown isotope; 0.0001 total curies)	1+10 ft south and 0+50 ft west

LLW = low-level waste
MFP = mixed fission product
MTR = Materials Test Reactor
RWMIS = Radioactive Waste Management Information System

A-2.3 Pit 4

Pit 4 was open from January 3, 1963, to September 26, 1967. Pit 4 has an area of 9,948 m² (107,082 ft²) and volume, including overburden, of 45,000 m³ (1,600,000 ft³). The organic waste listed for waste stream PER-ORM-1H may include acetone, xylene, trichloroethylene, 1,1,1-trichloroethane or toluene. The liquid residues for waste stream OFF-UOW-1H may include 3-methyl-cholanthrene, diisopropyl-fluoro-phosphate, benzene, CCl₄, or methyl alcohol. Table A-44 lists shipments with suspect hazardous contaminants from Pit 4.

Table A-44. Shipments to Pit 4 with suspect hazardous contaminants.

Waste Stream	Contaminant	Shipping Document Identification Number and Shipment Description	Burial Location
CFA-601-1H	?	CFA601SR005/05/661/ Batteries, turbine, camera lens, paint cans (unknown isotope, 0.1 Ci) (Batteries may imply lead or mercury)	315 ft west and 35 ft north of southeast monument
CFA-633-1H	Beryllium Oxide	CFA633SR006/23/662/ About 10 gal of water containing a small amount of Beryllium oxide. Vermiculite has been added to absorb the water.	305 ft west of the southeast monument
CFA-633-1H	Lead?	CFA633SR005/06/661/ Contaminated plastic glovebox (MFP, 0.03 Ci)	315 ft west and 35 ft north of southeast monument
CFA-687-1H	Lead	CFA687SR008/16/661/ Lead slag and sand (unknown isotope, <0.001 Ci)	300 ft west of the southeast monument
CFA-690-1H	Perchloric acid residue	CFA690SR008/22/67800/ Six each chemical hoods approx 7 ft high × 3 ft diameter × 5 ft long, located in rooms 22 and 24 of CFA-646. Perchloric residue, not suitable for surplus per J. White 8/21/67 (unknown isotope, 0.001 Ci)	15 ft -20 ft west of southeast monument
CPP-601-6H	Lead	CPP601SR012/15/66120/ Straw, lead and Junk (unknown isotope, <0.01 mCi)	225 ft west and 30 ft north of southeast monument
NRF-618-2H	Lead	NRF618SR001/19/67800/ Trolley hoist that is part of Capital Equipment tag #A12064, 5 DP cells tag #Z1016, Z1017, Z1034, and Z1040 and contaminated lead (unknown isotope, 1 mCi)	210 ft west and 40 ft north of southeast monument
NRF-618-6H	Resin	NRF617SR002/07/63800/ Used HOH resin with approximately 10 gal of water (Co-60, 0.385 mCi)	270 ft east of west pit marker
NRF-618-6H	Resin	NRF617SR002/07/63810/ Used LiOH resin with approximately 10 gal of water in 8 ft × 6 ft diameter concrete shielded tank (Co-60, 1.55 Ci)	270 ft east of west pit marker
NRF-618-61H	Resin	NRF617SR011/06/63800/ 27 cubic ft of HOH resin with approximately 1 gal of water enclosed in steel and concrete cylinder (Co-60, 4 mCi)	125 ft from west end, 20 ft from north side
NRF-618-6H	Resin	NRF617SR011/14/63800/ 27 ft ³ of HOH resin with approximately 1 gal of water enclosed in steel and concrete cylinder (Co-60, 4 mCi)	125 ft from west end, 30 ft from north side
OFF-GDA-1H	Nitric acid	OFFGDASR101/22/63800/ 60 55-gal drums with dry, solid state waste, shoe covers, towels, wood, industrial wipes, fiberglass filters, acid solidified and neutralized in cement, scrap metal and glass (U-235, U-238, Th-232, Co-60, MFP, < 1 Ci)	270 ft east of west pit marker

Table A-44. (continued).

Waste Stream	Contaminant	Shipping Document Identification Number and Shipment Description	Burial Location
OFF-GDA-1H	Nitric acid	OFFGDASR108/05/63800/ Low-level waste, dry solid state - shoe covers, towels, industrial wipes, filters, scrap metal, glass and scrap wood and nitric acid neutralized and solidified in Portland cement (Depleted U, traces U-235, U-238, Th-232, Co-60, < 200 mCi, RWMIS: 800 mCi)	1+80 from west end, 0+75 from north side (RWMIS: this only) 1+85 from west end, 0 to 0+60 from north side
OFF-GDA-1H	Nitric acid	OFFGDASR108/05/63810/ Low-level waste, dry solid state - shoe covers, towels, industrial wipes, filters, scrap metal, glass and scrap wood and nitric acid neutralized and solidified in Portland cement (depleted uranium, traces U-235, U-238, Th-232, Co-60, < 200 mCi)	1+80 from west end, 0+75 from north side 1+85 from west end, 0 to 0+60 from north side (RWMIS: this only)
OFF-IXE-1H	Lead	OFFIXESR102/15/63800/ Steel encased lead cask centered in concrete filled oil drum. Lifting ring welded to supports of lead core and extends above concrete (Co-60, Ir-192, 60 Ci)	300 ft east of west pit marker
OFF-UNR-1H	Lead Nitric acid	OFFUNRSR103/01/63800/ Material in block is solid waste materials (paper, wood, glassware, lead-shielded Co-60 sources. Sr-40 sources encased in plaster of Paris, H-3 as liquid absorbent material in polyethylene bottle sealed with plaster of Paris, empty bottles etc. Block capped with 6 in. concrete (Co-60 15.3 Ci, H-3 10 Ci, Sr-90 3 Ci, MFP 200 mCi)	3+10 ft east of the south west marker
OFF-UOW-1H	3-Methyl-cholanthrene Diisopropyl-fluoro-phosphate Benzene Methyl Alcohol CCl ₄	OFFUOWSR102/20/63800 Laboratory solid trash contaminated with miscellaneous radioactive isotopes. Trash includes paper, glass, and animal carcasses allayed in dry unslacked lime. Liquids have been mixed with Prelate 2 (H-3, I-125, C-14, S-35, Sr-85, Cr-51, P-32, Cu-64, Fe-59, Zn-65, Co-60, Pm-147, I-131, H9-203, Cs-137, Fe-55, Sr-90, Co-45, 0.15 Ci)	330 ft east of west pit marker
PER-ORM-1H	1,1,1-trichloroethane Acetone Trichloroethylene Toluene Xylene	PERAIISR006/24/63800/Organic waste and residue in 51 55-gal drums (unknown isotope, 0.7 Ci)	2+25 from west, 0+50 from north
PER-ORM-1H	1,1,1-trichloroethane Acetone Trichloroethylene Toluene Xylene	PERAIISR007/10/63800/ Organic waste and residue in 56 full 55-gal drums and seven empty drums (unknown isotope, 0.75 Ci)	2+75 and 3+35
PER-ORM-1H	1,1,1-trichloroethane Acetone Trichloroethylene Toluene Xylene	PERAIISR007/12/63810/ Organic waste and residue in drums of absorbent, 42 full and two empty drums (unknown isotope, 1.4 Ci)	2+90 from west end, 0+80 from north side

Table A-44. (continued).

Waste Stream	Contaminant	Shipping Document Identification Number and Shipment Description	Burial Location
PER-ORM-1H	1,1,1-trichloroethane Acetone Trichloroethylene Toluene Xylene	PERAIISR007/19/63800/ Organic waste, cardboard, wood, steel, two full drums, and empty drums (unknown isotope, 100 mCi)	300 ft from west end, 180 ft from north side
PER-ORM-1H	1,1,1-trichloroethane Acetone Trichloroethylene Toluene Xylene	PERAIISR008/03/63742/ Organic waste and residue, empty drums, steel and wood, miscellaneous scrap (unknown isotope, 50 mCi)	200 ft from west end, 80 ft from north side
TAN-633-4H	?	TAN633SR005/02/661/ ML-1 Reactor skid and shielding (unknown isotope, 20 Ci) Waste stream reports nickel and chromium in 1966 (Shielding may imply the presence of lead)	310 ft west of southeast monument

MFP = mixed fission product

A-2.4 Pit 5

Pit 5 was open from June 18, 1963, to December 22, 1966. Pit 5 has an area of 10,104 m² (108,754 ft²) and volume, including overburden, of 42,000 m³ (1,500,000 ft³). Table A-45 lists shipments with suspect hazardous contaminants from Pit 5.

Table A-45. Shipments to Pit 5 with suspect hazardous contaminants.

Waste Stream	Contaminant	Shipping Document Identification Number and Shipment Description	Burial Location
ANL-767-1H	Lead	ANL767SR004/18/66110/ Metal shear station in lead lined wooden box (unknown isotope, 0.5 Ci)	110 ft north of the southwest monument
ANL-767-1H	Lead	ANL767SR006/30/66130/ Steel and Iron machine parts - in lead-lined wooden box 50x32x40 (MFP, 10 Ci)	140 ft north of the southwest monument
CPP-601-2H	Asbestos	CPP601SR008/20/66110/ Metal waste, insulation, paper, wood (MFP, 100 mCi) (This waste may contain asbestos.)	190 ft north and 40 ft east of southwest monument
CPP-601-2H	Asbestos	CPP601SR008/20/66210/ Metal, insulation, paper, and wood waste (MFP, 100 mCi) (This waste may contain asbestos.)	180 ft north and 40 ft east of southwest monument
CPP-601-2H	Asbestos	CPP601SR008/20/66310/ Metal, insulation, paper, and wood waste (unknown isotope, 100 mCi) (This waste may contain asbestos.)	180 ft north and 40 ft east of southwest monument
CPP-601-6H	Kerosene	CPP601SR008/30/66100/ Kerosene containing (MFP, <3 Ci)	10 ft east and 160 ft north of southwest monument
CPP-601-6H	Lead	CPP601SR011/22/66120/ Lead, concrete, and iron (unknown isotope, 0.18 Ci)	170 ft north and 30 ft west of southwest monument

Table A-45. (continued).

Waste Stream	Contaminant	Shipping Document Identification Number and Shipment Description	Burial Location
NRF-618-6H	Oil	NRF617SR001/20/66251/ Tank of contaminated waste oil (Co-60, 46 μ Ci)	75 ft northwest of the southwest monument
TAN-607-4H	Lead	TAN607SR007/31/64125/ Lead and steel scrap, 24 germanium actuator rods scrap (unknown isotope, 1.7 mCi)	100 ft south of northwest marker
TRA-603-17H	Acid	TRA603SR011/11/66210/ Acid contaminated soil from TRA (unknown isotope, 1 μ Ci)	195 ft north and 10 ft west of southwest monument

MFP = mixed fission product
TRA = Test Reactor Area

A-2.5 Pit 6

Pit 6 was open from May 18, 1967, to October 22, 1968. Pit 6 has an area of 5,108 m² (54,984 ft²) and volume, including overburden, of 22,000 m³ (780,000 ft³). Table A-46 lists shipments with suspect hazardous contaminants from Pit 6.

Table A-46. Shipments to Pit 6 with suspect hazardous contaminants.

Waste Stream	Contaminant	Shipping Document Identification Number and Shipment Description	Burial Location
CPP-601-5H	Methyl isobutyl ketone Ethyl alcohol Acetone Carbon tetrachloride	CPP601SR009/18/67810/ Miscellaneous (e.g., used oils and solvents) 10 55-gal drums are slightly surface contaminated, 100–300 counts (unknown isotope, 0.001 Ci)	30 ft north and 30 ft east of the southeast monument
NRF-601-1H	Lead Asbestos	NRF601SR005/16/68800/ Contaminated iron, lead, asbestos, canvas, poly (unknown isotope, 10 mCi)	90-100 ft west and 35-45 ft north of the southeast monument
NRF-601-1H	Lead	NRF601SR006/19/68800/ Scrap valves and piping, washing machine, and lead bricks (Co-60, 50 mCi)	50 ft west and 30 ft north of the southeast monument
TAN-607-4H	Lead	TAN607SR006/07/68800/ Lead and steel scrap, 24 General Electric actuator rods scrap (unknown isotope, 1.7 mCi)	20-30 ft north and 70-80 ft west of the southeast monument

A-2.6 Pit 9

Pit 9 was open from November 8, 1967, to June 9, 1969. Pit 9 has an area of 4,231 m² (45,541 ft²) and volume, including overburden, of 18,000 m³ (650,000 ft³). Pit 9 originally contained approximately 4,248 m³ (150,000 ft³) of waste of which approximately 3,398 m³ (120,000 ft³) was generated at RFP. The pit was filled with 3,921 drums and 2,029 boxes including 1,302 boxes of empty drums (Loehr et al. 1994). Table A-47 lists shipments with suspect hazardous contaminants from Pit 9.

Table A-47. Shipments to Pit 9 with suspect hazardous contaminants.

Waste Stream	Contaminant	Shipping Document Identification Number and Shipment Description	Burial Location
CFA-654-1H	Lead	CFA654SR005/12/6980020/ Contaminated lead (MFP, 0.001 Ci)	105 ft south of northeast monument
CPP-601-2H	Asbestos	CPP601SR008/23/68800101/ Trash, concrete, pipes, insulation (unknown isotope, <0.1Ci) (This waste may contain asbestos.)	175 ft south and 5-20 ft west of northeast monument
CPP-601-7H	Zirconium	CPP601SR009/22/67800200/ Scrap zirconium and zirconium alloy- miscellaneous shapes and sizes from large pieces to long thin strips (unknown isotope, 0.1 Ci)	180-210 ft north and 0-20 ft west of southeast monument
CPP-601-7H	Zirconium	CPP601SR009/22/67810200/ Zirconium scrap with some natural uranium (U, <0.1 (182 kg natural uranium)	150-180 ft north and 0-10 ft east of southwest monument
NRF-618-6H	Oil	NRF617SR005/22/6880010/ Waste oil sludge (Co-60, 17 µCi)	85 ft north and 40 ft west of southeast monument
TRA-642-6H	Lead	TRA642SR009/05/68810100/ Stainless steel and lead (unknown isotope, <0.001 Ci)	170 ft south of northeast monument

A-2.7 Pit 10

Pit 10 was open from June 7, 1968, to July 8, 1971. Pit 10 has an area of 10,307 m² (110,942 ft²) and volume, including overburden, of 45,000 m³ (1,600,000 ft³). Table A-48 lists shipments with suspect hazardous contaminants from Pit 10.

Table A-48. Shipments to Pit 10 with suspect hazardous contaminants.

Waste Stream	Contaminant	Shipping Document Identification Number and Shipment Description	Burial Location
ANL-765-1H	Asbestos	ANL711SR002/03/70800/ Metal, plastic, asbestos (unknown isotope, <0.001 Ci)	385 ft west and 10 ft south of northeast monument
ANL-765-1H	Lead	ANL717SR005/24/711505/ steel jacket lead lined, steel extension casing (casing), steel base plate for cask (MFP, 5.00E-03 Ci)	260 ft west and 90 ft south of northeast monument
CFA-601-1H	Lead	CFA601SR011/05/70800/ Lead pipe heater, pumps, tension tester (MFP, 0.001 Ci)	300 ft west and 60 ft south of northeast monument
CFA-690-1H	Lead	CFA690SR003/17/70800/ Steel box and frame with lead shielding (MFP, 0.001 Ci)	360 ft west and 20 ft south of northeast monument
CPP-601-2H	Sodium potassium alloy	CPP601SR005/07/708003000100/ NaK tube bundle, Metal tube bundle WC-302 (MFP, 0.5 Ci)	320 ft west and 75 ft south of northeast monument
CPP-601-6H	Gasolene	CPP601SR004/23/6980000/ Some gasoline left in tank. 250-gal gasoline tank. Potential fire hazard if spilled enroute	375 ft east and 40 ft south of northwest monument
CPP-601-6H	Lead	CPP601SR004/09/70800355/ Lead, wood, scrap material (MFP, 50 mCi)	355 ft west and 10 ft south of northeast monument

Table A-48. (continued).

Waste Stream	Contaminant	Shipping Document Identification Number and Shipment Description	Burial Location
CPP-601-6H	Lead	CPP601SR004/20/70800505/ Lead, unreadable, scrap metal, obtained from calciner cleanup (unknown isotope, 2.31 Ci)	335 ft west and 55 ft south of northeast monument
NRF-601-1H	Lead	NRF601SR010/21/68800/ Six wooden boxes and one pallet of contaminated waste. Includes lead and poly plugs from S1W plant (unknown isotope, 12 mCi)	60 ft west and 65 ft north of SW - 2 Monument
NRF-601-1H	Lead	NRF601SR006/26/69800/ Lead and Steel core coffin barrel (unknown isotope, 100 mCi)	330-350 ft east and 15-20 ft north of SW-2 monument
NRF-601-1H	Lead	NRF601SR001/22/70810/Empty shipping containers constructed of lead and steel (unknown isotope, estimated maximum of 10 mCi each cask, 70 mCi)	365 ft west and 15-45 south of northeast monument
NRF-601-1H	Zirconium	NRF601SR003/19/70830/ 12 north. Foils, 12 U-235 foils, 12 plutonium foils, 750 U-Zr wires, one U-235 foil, 12 U-235 Sr flux wires, one Pu-Al foil (Np-Pu, 1 Ci)	365 ft west and 45 ft south of northeast monument
NRF-617-2H	Lead	NRF618SR007/08/71100/ Contaminated ducting, soil, and lead brick (Co-60, 1.00E-03 Ci)	270 ft west and 40 ft south of northeast monument
NRF-617-2H	Lead	NRF618SR007/28/70810/ Alpha box, scrap lumber from cell #10, lead bricks (unknown isotope, 0.005 Ci)	325 ft east and 50 ft south of northeast monument
NRF-618-6H	Oil	NRF617SR005/14/71900/ Metal, wood, paper waste and 3 solidified waste oil drums -AIW (55 gal) (Co-60, 0.002 Ci)	280-290 ft west and 10-20 ft south of northeast monument
NRF-618-6H	Oil	NRF617SR002/25/71120/ 66 ft ³ oil absorbed in fullers earth, 18 ft ³ parts, refer to WSRC-3413, C-3425, and 8 ft ³ scrap metal pipe (Co-60, 1.0 µCi)	300-315 ft west and 50-60 ft south of northeast monument
PER-620-1H	?	PER620SR003/31/71213/ Contaminated metal scrap with excess equipment from Reactor operation (unknown isotope, <1.0 mCi)	280-310 ft west and 5-20 ft south of northeast monument
TAN-607-5H	Lead	TAN607SR001/12/70810/ Metal source cask mounted on wooden platform (RWMIS lead) (unknown isotope < 0.1 mCi)	380 ft west and 75 ft south of northeast pit marker
TRA-603-15H	Beryllium	TRA603SR005/11/70830/ Aluminum BF grid and upper support casting (RWMIS: content code beryllium) (unknown isotope, 2.5 Ci) (description probably should be BE not BF)	325 ft west and 70 ft south of northeast monument
TRA-603-26H	Lead	TRASR004/16/71245/ Blocks, scrap equipment, stainless steel, lead? (MFP = 0.0275 Ci)	280-300 ft west and 0-30 ft south
TRA-603-26H	Lead	TRASR004/20/71250/ Stainless steel, lead shielding block, black iron, boxes, other scrap equipment (unknown isotope, 0.0825 Ci)	280-300 ft west and 20-40 ft south of northeast monument

Table A-48. (continued).

Waste Stream	Contaminant	Shipping Document Identification Number and Shipment Description	Burial Location
TRA-603-26H	Lead	TRASR004/21/71252/ Black iron, lead shielding, blocks, pallets, scrap equipment (unknown isotope, 0.0385 Ci)	280-300 ft west and 10-30 ft south of northeast monument

BE = beryllium
MFP = mixed fission product
RWMIS = Radioactive Waste Management Information System

A-3. RESULTS BY CONTAMINANT

For each nonradioactive, suspect hazardous contaminant, all shipments identified as having or potentially having that contaminant, are displayed in the following tables.

A-3.1 1,1,1-Trichloroethane

1-1-1-trichloroethane has Chemical Abstracts Service (CAS) Number 71-55-6. This contaminant is listed because of its toxicity. Constituents for the waste stream PER-ORM-1H reported by HDT included 1,1,1-trichloroethane. Organic waste was reported in shipments to Pit 4 for waste stream PER-ORM-1H and may, therefore, contain the reported constituents. Table A-49 lists shipments containing organic waste.

Table A-49. Shipments containing 1,1,1-Trichloroethane.

Waste Stream	Pit	Shipping Document Identification Number and Shipment Description	Burial Location
PER-ORM-1H	P4	PERAIISR006/24/63800/ Organic waste and residue in 51 55-gal drums (unknown isotope, 0.7 Ci)	2+25 from west, 0+50 from north
PER-ORM-1H	P4	PERAIISR007/10/63800/ Organic waste and residue in 56 full 55-gal drums and seven empty drums (unknown isotope, 0.75 Ci)	2+75 and 3+35
PER-ORM-1H	P4	PERAIISR007/12/63810/ Organic waste and residue in drums of absorbent, 42 full, two empties (unknown isotope, 1.4 Ci)	2+90 from west end, 0+80 from north side
PER-ORM-1H	P4	PERAIISR007/19/63800/ Organic waste, cardboard, wood, steel, two full drums, and empty drums (unknown isotope, 100 mCi)	300 ft from west end, 180 ft from north side
PER-ORM-1H	P4	PERAIISR008/03/63742/ Organic waste and residue, empty drums, steel and wood, miscellaneous scrap (unknown isotope, 50 mCi)	200 ft from west end, 80 ft from north side

A-3.2 3-Methylcholanthrene

The contaminant 3-methylcholanthrene is identified by CAS Number 56-49-5. This contaminant is listed because of its toxicity. The constituents reported by HDT for waste stream OFF-UOW-1H include 3-methylcholanthrene. These shipments make up the entire waste stream and all of them report liquids or absorbent paper. Table A-50 lists shipments containing 3-methylcholanthrene.

Table A-50. Shipments containing 3-methylcholanthrene.

Waste Stream	Pit	Shipping Document Identification Number and Shipment Description	Burial Location
OFF-UOW-1H	P2	OFFUOWSR112/12/6180040/ Contains laboratory trash contaminated with miscellaneous radioactive isotopes. Trash includes paper, glass, animal carcasses and lead shielding for Co-60 sources of millicurie size and over. Liquid residues have been mixed with Perlite #2 at rate of 2 volumes of Perlite to 1 volume of liquid to obtain a damp solid aggregated for shipping purposes (unknown weight for Co-60, C-14, H-3 Fe-59, Fe-55, Cr-51, S-35, Ag-1, and MFPs; 0.78 total curies)	Begin at a point 387 ft west and 20 ft north from southeast pit marker run 20 ft north and 3 ft west
OFF-UOW-1H	P2	OFFUOWSR110/10/6080050/ Type A, three steel 55-gal drums with 4 in. concrete cap on top. Type B, 25 steel 5-gal drums with 3-in. concrete cap on top. Type C, 38 welded steel "fuze" box with four clamp sealed metal lid. Contents: Laboratory trash materials including animal carcasses, glassware, absorbent paper (unknown weight for Fe-59, H-3, C-14, Zn-65, Sr-90, Cr-51, Ca-45, Fe-55, Cs-137; 0.15 total curies, plus or minus 0.06 curies)	145 ft north of monument 40 and 50 ft west
OFF-UOW-1H	P2	OFFUOWSR106/09/6180020/ Miscellaneous laboratory trash including (1) animal carcasses packed in lime, (2) waste absorbent paper, (3) glassware, (4) planchets (unknown weight for Sr-89, Mn-54, Co-60, Sn-113, H-3 C-14, S-35, Ca-45, Fe-59, Fe-55, Zn-65, Cr-51; 0.11 total curies 51)	Begin at a point 152 ft west and 90 ft north from southeast pit marker run 6 ft north and 3 ft west Burial Row #50
OFF-UOW-1H	P2	OFFUOWSR109/20/62800130/ 12 55-gal drums containing byproduct material contaminated laboratory trash (including animal carcasses, waste paper, broken and intact glassware, wet vermiculite). Packed in ICC-approved steel 55-gal drums (unknown weight for H-3, C-14, Fe-59, Fe-55, Cr-51, Co-60, S-3; 0.103 total curies)	405 ft east and 135 ft north of southwest pit marker
OFF-UOW-1H	P4	OFFUOWSR102/20/63800/ Laboratory solid trash contaminated with miscellaneous radioactive isotopes. Trash includes paper, glass, and animal carcasses allayed in dry unslacked lime. Liquids have been mixed with Perlite 2 (H-3, I-125, C-14, S-35, Sr-85, Cr-51, P-32, Cu-64, Fe-59, Zn-65, Co-60, Pm-147, I-131, H9-203, Cs-137, Fe-55, Sr-90, Co-45, 0.15 Ci)	330 ft east of west pit marker

ICC = Interstate Commerce Commission
MFP = mixed fission product

A-3.3 Acid

The HDT does not report constituents for this waste stream TRA-603-17H. The characteristic for most acids is corrosivity. The acid reported in this waste stream shipment was not specified (see Table A-51).

Table A-51. Shipments containing unspecified acid.

Waste Stream	Pit	Shipping Document Identification Number and Shipment Description	Burial Location
TRA-603-17H	P5	TRA603SR011/11/66210/ Acid contaminated soil from TRA (unknown isotope, 1 μ Ci)	195 ft north and 10 ft west of southwest monument

TRA = Test Reactor Area

A-3.4 Acetone

Acetone is identified by CAS Number 67-64-1. The characteristic for this contaminant is ignitability. Acetone could also be listed if unused (U002) or if used for solvent properties (F003). The HDT reported acetone for waste stream PER-ORM-1H. The organic waste reported in the shipments for waste stream PER-ORM-1H may contain acetone. The waste stream CPP-601-5H consists of organic solvents. The HDT reported acetone in the waste stream CPP-601-5H; therefore, acetone is a possible constituent of the shipment to Pit 6 (see Table A-52).

Table A-52. Shipments containing acetone.

Waste Stream	Pit	Shipping Document Identification Number and Shipment Description	Burial Location
NRF-618-6H	P3	NRF618SR001/26/67820202/ Three 5-gal containers containing acetone and benzine contaminated with active corrosion products (unknown amount of Co-60; 0.2 total curies)	Burial Grounds liquid disposal
PER-ORM-1H	P4	PERAHSR006/24/63800/ Organic waste and residue in 51 55-gal drums (unknown isotope, 0.7 Ci)	2+25 from west, 0+50 from north
PER-ORM-1H	P4	PERAHSR007/10/63800/ Organic waste and residue in 56 full 55-gal drums and seven empty drums (unknown isotope, 0.75 Ci)	2+75 and 3+35
PER-ORM-1H	P4	PERAHSR007/12/63810/ Organic waste and residues in drums of absorbent, 42 full, two empties (unknown isotope, 1.4 Ci)	2+90 from west end, 0+80 from north side
PER-ORM-1H	P4	PERAHSR007/19/63800/ Organic waste, cardboard, wood, steel, two full drums, and empty drums (unknown isotope, 100 mCi)	300 ft from west end, 180 ft from north side
PER-ORM-1H	P4	PERAHSR008/03/63742/ Organic waste and residues, empty drums, steel and wood, miscellaneous scrap (unknown isotope, 50 mCi)	200 ft from west end, 80 ft from north side
CPP-601-5H	P6	CPP601SR009/18/67810/ Miscellaneous (e.g., used oils and solvents), 10 55-gal drums are slightly surface contaminated 100–300 counts (unknown isotope, 0.001 Ci) (This waste appears to contain solvents, perhaps all those noted for this waste stream.)	30 ft north and 30 ft east of the southeast monument

A-3.5 Anthracene

Anthracene is identified by CAS Number 120-12-7. This contaminant is potentially toxic. The HDT reported anthracene in the waste stream OFF-NMR-2H. Because only one shipment was in the waste stream, the shipment must include anthracene (see Table A-53).

Table A-53. Shipments containing anthracene.

Waste Stream	Pit	Shipping Document Identification Number and Shipment Description	Burial Location
OFF-NMR-1H	P2	OFFNMRSR105/11/6180020/ 19 55 gal steel drums containing unknown contents. RWMIS: 1 bbl animal waste, 18 bbl paper equipment (unknown weight for MFPs; Cs-137, Sr-89, Sr-90, Y-90, Y-91, Zn-65, Fe-59, P-32, I-131, Ru-106, Co-60, H-3, Ce-144, Ca-45; <0.02 total curies)	Begins at a point 121 ft west and 20 ft north from southeast marker. Runs 50 ft north and 3 ft W

MFP = mixed fission product
RWMIS = Radioactive Waste Management Information System

A-3.6 Asbestos

Asbestos is identified by CAS Number 1332-21-4. This contaminant is potentially toxic. The HDT reported asbestos in waste stream CPP-601-2H. Thus, the shipments from CPP-601 with reported insulation may contain asbestos. Asbestos was reported in the shipment description for the remaining shipments (see Table A-54).

Table A-54 Shipments containing asbestos.

Waste Stream	Pit	Shipping Document Identification Number and Shipment Description	Burial Location
ARA-602-3H	P2	ARA602SR004/16/6381020/ Cast iron ruptured water pump (unknown isotope, <1 µCi) (RWMIS content code iron, asbestos)	1+00 east of west pit marker
CPP-601-2H	P5	CPP601SR008/20/66110/ Metal waste, insulation, paper, wood (MFP, 100 mCi) (This waste may contain asbestos.)	190 ft north and 40 ft east of southwest monument
CPP-601-2H	P5	CPP601SR008/20/66210/ Metal, insulation, paper, and wood waste (MFP, 100 mCi) (This waste may contain asbestos.)	180 ft north and 40 ft east of southwest monument
CPP-601-2H	P5	CPP601SR008/20/66310/ Metal, insulation, paper, and wood waste (unknown isotope, 100 mCi) (This waste may contain asbestos.)	180 ft north and 40 ft east of southwest monument
NRF-601-1H	P6	NRF601SR005/16/68800/ CONTAMINATED IRON, LEAD, ASBESTOS, CANVAS, POLY (unknown isotope, 10 mCi)	90-100 ft west and 35-45 ft north of the southeast monument
CPP-601-2H	P9	CPP601SR008/23/68800101/ Trash, concrete, pipes, insulation (unknown isotope, <0.1Ci) (This waste may contain asbestos.)	175 ft south and 5-20 ft west of northeast monument
ANL-765-1H	P10	ANL711SR002/03/70800/ Metal, plastic, asbestos (unknown isotope, <0.001 Ci)	385 ft west and 10 ft south of northeast monument

MFP = mixed fission product
RWMIS = Radioactive Waste Management Information System

A-3.7 Benzene

Benzene is identified by CAS Number 71-43-2. The characteristic for this contaminant is toxicity and ignitability. Benzene could also be listed if used as a solvent (F005) or if unused (U019). The constituents reported by HDT for waste stream OFF-UOW-1H includes benzene. The shipments make up the entire waste stream and all report liquids or absorbent paper shipments (see Table A-55).

Table A-55. Shipments containing benzene.

Waste Stream	Pit	Shipping Document Identification Number and Shipment Description	Burial Location
OFF-UOW-1H	P2	OFFUOWSR112/12/6180040/ Contains laboratory trash contaminated with miscellaneous radioactive isotopes. Trash includes paper, glass, animal carcasses and lead shielding for Co-60 sources of millicurie size and over. Liquid residues have been mixed with Perlite #2 at rate of 2 volume of Perlite to 1 volumes of liquid to obtain a damp solid aggregated for shipping purposes (unknown weight for Co-60, C-14, H-3 Fe-59, Fe-55, Cr-51, S-35, Ag-1, and MFPS; 0.78 total curies)	Begin at a point 387 ft west and 20 ft north from southeast pit marker run 20 ft north and 3 ft west
OFF-UOW-1H	P2	OFFUOWSR110/10/6080050/Type A, 3 steel 55-gal drums with 4 in. concrete cap on top. Type B, 25 steel 5-gal drums with 3-in. concrete cap on top. Type C, 38 welded steel "fuze" box with 4 clamp sealed metal lid. Contents: Laboratory trash materials including animal carcasses, glassware, absorbent paper (unknown weight for Fe-59, H-3, C-14, Zn-65, Sr-90, Cr-51, Ca-45, Fe-55, Cs-137; 0.15 total curies, plus or minus 0.06 curies)	145 ft north of monument 40 and 50 ft west
OFF-UOW-1H	P2	OFFUOWSR106/09/6180020/ Miscellaneous laboratory trash including (1) Animal carcasses packed in lime (2) waste-absorbent paper (3) glassware: (4) planchets (unknown weight for Sr-89, Mn-54, Co-60, Sn-113, H-3 C-14, S-35, Ca-45, Fe-59, Fe-55, Zn-65, Cr-51; 0.11 total curies 51)	Begin at a point 152 ft west and 90 ft north from southeast pit marker run 6 ft north and 3 ft west Burial Row #50
OFF-UOW-1H	P2	OFFUOWSR109/20/62800130/ 12 55-gal drums containing byproduct material contaminated laboratory trash (uncluding animal carcasses, waste paper, broken and intact glassware, wet vermiculite). Packed in ICC-approved steel 55-gal drums (unknown weight for H-3, C-14, Fe-59, Fe-55, Cr-51, Co-60, S-3; 0.103 total curies)	405 ft east and 135 ft north of southwest pit marker
OFF-UOW-1H	P4	OFFUOWSR102/20/63800/ Laboratory solid trash contaminated with miscellaneous radioactive isotopes. Trash includes paper, glass, and animal carcasses allayed in dry unslacked lime. Liquids have been mixed with Perlite 2 (H-3, I-125, C-14, S-35, Sr-85, Cr-51, P-32, Cu-64, Fe-59, Zn-65, Co-60, Pm-147, I-131, H9-203, Cs-137, Fe-55, Sr-90, Co-45, 0.15 Ci)	330 ft east of west pit marker

A-3.8 Benzene

Benzene is identified by CAS Number 8032-32-4. Benzene is also known as ligroin. It is a highly flammable liquid that is toxic if ingested or inhaled. Shipments containing benzene are listed in Table A-56.

Table A-56. Shipments containing benzene.

Waste Stream	Pit	Shipping Document Identification Number and Shipment Description	Burial Location
NRF-618-6H	P3	NRF618SR001/26/67820202/ 3 5-gal containers containing acetone and benzene contaminated with active corrosion products (unknown amount of Co-60; 0.2 total curies)	Burial Grounds liquid disposal

A-3.9 Beryllium and Beryllium Oxide

Beryllium is identified by CAS Number 7440-41-7, and beryllium oxide is identified by CAS Number 1304-56-9. Beryllium or beryllium oxide were specifically reported in the shipment documents (see Table A-57). Beryllium and its salts are toxic substances and are potentially carcinogenic. Special precautions must be taken for any activity that may release beryllium dust.

Table A-57. Shipments containing beryllium or beryllium oxide.

Waste Stream	Pit	Shipping Document Identification Number and Shipment Description	Burial Location
OFF-ATI-1H	P2	OFFATISR107/14/60800NA/ Unknown number of containers containing mixed fission products. Contains beryllium oxide (unknown isotope; 0.005 total curies)	See map in shipping document for location
OFF-ATI-1H	P2	26 Wooden boxes containing radioactively contaminated sheet metal and ducting: 1 mCi MFP per box. (Two wooden boxes, containing beryllium oxide-contaminated ducting and sheet metal. One wooden box containing radioactively contaminated ductwork 1 mCi MFP. One wooden box, containing radioactively contaminated ductwork 1 mCi MFP. (MFPs; each package has <0.00135 total curies)	See map in shipping document for location
OFF-ATI-1H	P2	OFFATISR107/14/608200/ 26 wooden boxes containing radioactively contaminated sheet metal and ducting: 1 mCi MFPs per box. Two wooden boxes containing beryllium oxide-contaminated ducting and sheet metal. One wooden box 1 containing radioactively contaminated ductwork; 1 mCi MFP. One wooden box containing radioactively contaminated ductwork; 1 mCi MFP. Contains beryllium oxide. (MFPs; each package has <0.00135 total curies)	See map in shipping document for location

Table A-57. (continued).

Waste Stream	Pit	Shipping Document Identification Number and Shipment Description	Burial Location
OFF-ATI-1H	P2	OFFATISR107/18/608000/ One wooden box containing radioactively contaminated sheet metal and ducting. One wooden box containing beryllium oxide-contaminated filter housing. One wooden box containing beryllium oxide-contaminated bag filters. One wooden box containing beryllium oxide-contaminated roto-clone. Three wooden boxes containing radioactively contaminated filter housings. One wooden box containing radioactively contaminated fume housing. Two wooden boxes containing one radioactively contaminated fume hood. One wooden box containing beryllium oxide and radioactively contaminated hyranlic press. One wooden box containing beryllium oxide-contaminated laboratory waste material. One wooden box, containing radioactively contaminated sheet metal, dusting, and blower. Two wooden boxes containing radioactively contaminated filter housings. One wooden box containing radioactively contaminated filter housing. (MFPs; each package has <0.00135 total curies)	See map in shipping document for location
OFF-ATI-1H	P2	OFFATISR107/18/608100/ Unknown number of containers containing mixed fission products. Contains beryllium oxide (unknown isotope; 0.008 total curies)	See map in shipping document for location
OFF-ATI-1H	P2	OFFATISR107/18/608200/ Unknown number of containers containing mixed fission products. Contains beryllium oxide (unknown isotope; 0.009 total curies)	See map in shipping document for location
OFF-ATI-1H	P2	OFFATISR107/18/608300/ Unknown number of containers containing mixed fission products. Contains beryllium oxide (unknown isotope; 0.004 total curies)	See map in shipping document for location
OFF-ATI-1H	P2	OFFATISR107/20/608000/ 100 55-gal drums (radioactive material, NOS tile, metal and laboratory trash) 1 mCi MFP per drum. (2) One wooden box, 14 ft × 3 ft-8 in. × 4 ft-1 in. box contains beryllium oxide (unknown isotope; Each package has <0.00135 total curies)	Row 19 (west end) 20 (east end)
OFF-ATI-1H	P2	OFFATISR107/20/608100/ 29 55-gal drums radioactive material, NOS (tile, metal and laboratory trash) 1 mCi per drum. Associated hazards: beryllium oxide (MFPs; each package has <0.00135 total curies)	Row 20 (east end)
OFF-ATI-1H	P2	OFFATISR111/28/60800200/ 124 55-gal drums containing unknown contents, “may contain beryllium in microgram quantities” (unknown weight of mixed fission products; <2.7 curies per container)	Rows 31, 32, 33, 34; north from monument 155 to 165 ft, west 35 to 80 ft

Table A-57. (continued).

Waste Stream	Pit	Shipping Document Identification Number and Shipment Description	Burial Location
OFF-ATI-1H	P2	OFFATISR104/26/61800200/ 136 55-gal steel drums of compressed dry waste. The waste is covered with a concrete cap. Four 55-gal drums are similar to the above, except the contents are a lead cask surrounded by concrete. Two 55-gal drums contain a lead cask. The cask is surrounded on all sides with concrete. The container has a lock on steel lid. 55 conduits, 3 ft diameter × 4 ft high or 4 ft diameter × 4 ft high. The conduits contain a 30-gal drum or other primary container surrounded by concrete. One wooden box containing a wash trough centered in the box and surrounded by reinforced concrete. Two 55-gal drums packaged similar to the above except contents are solidified liquid waste. Eight 55-gal drums with permanent lids containing bungs. The packages are filled with solidified liquid waste. 33 55-gal drums of solidified liquid waste that is stainless steel accountable. 181 55-gal drums containing compressed dry waste. 20 wooden containers containing dry waste (unknown weight for MFPs, stainless steel material, beryllium; 25.41 total curies)	Begins at a point 115 ft west and 50 ft north from southeast pit marker. Runs 50 ft north, 120 ft west, 25 ft south, 100 ft east, 25 ft south, 20 ft east to beginning
OFF-ATI-1H	P2	OFFATISR108/07/618002000/ 299 55-gal steel drums containing compressed dry waste. The lid is a lock-on type (steel). 77 wooden boxes of various dimensions containing dry waste. 27 conduits – 3 ft diameter × 4 ft high or 4 ft diameter × 4 ft high. Conduits contain 30-gal drum or other primary container encased in concrete. 10 55-gal drums - contains a lead pig encased in concrete. Nine wooden boxes filled with concrete. 22 in. square by 103 in. long. Contains dry waste. One 6 × 6 cask. Steel shell containing high density concrete. Package contains SNAP reactor shield plug including plutonium-beryllium source. 12 55-gal drums - contain compressed dry waste. Waste is covered by a concrete cap. One 55-gal drum - contains compressed dry or solidified liquid waste that is stainless steel accountable. Some drums are covered by a concrete cap. The remainder are enclosed by a lock-on lid (steel) (unknown weight for MFPs, U-235, beryllium, plutonium-beryllium source; 7751 total curies)	Begin at a point 200 ft west and 20 ft north from southeast pit marker run 60 ft north and 6 ft west also 215 ft west and 20 ft north from marker run 60 ft north and 3 ft west Boxes at 197 ft west and 0 ft north run 20 ft north and 18 ft west also at a point 218 ft west and 45 ft north run 30 ft north and 90 ft West
CFA-633-1H	P4	CFA633SR006/23/662/ About 10 gal of water containing a small amount of beryllium oxide. Vermiculite has been added to absorb the water.	305 ft west of the southeast monument
TRA-603-15H	P10	TRA603SR005/11/70830/ Aluminum BF grid and upper support casting (RWMIS: content code beryllium) (unknown isotope, 2.5 Ci) (description probably should be BE not BF)	325 ft west and 70 ft south of northeast monument

BE = beryllium
MFP = mixed fission product
NOS = not otherwise specified
RWMIS = Radioactive Waste Management Information System
SNAP = Systems for Nuclear Auxiliary Power

A-3.10 Carbon Tetrachloride

Carbon tetrachloride is identified by CAS Number 56-23-5. The characteristic for this contaminant is toxicity. Carbon tetrachloride could also be listed if used as a solvent (F001) or if unused (U211). The constituents reported by HDT for the waste stream OFF-UOW-1H include carbon tetrachloride. The shipments make up the entire waste stream OFF-UOW-1H and all report liquids or absorbent paper. Waste stream CPP-601-5H consists of organic solvents. The HDT reported carbon tetrachloride in the waste stream; therefore, carbon tetrachloride is a possible constituent of the shipment to Pit 6 (see Table A-58).

Table A-58. Shipments containing carbon tetrachloride.

Waste Stream	Pit	Shipping Document Identification Number and Shipment Description	Burial Location
OFF-UOW-1H	P2	OFFUOWSR112/12/6180040/ Contains laboratory trash contaminated with miscellaneous radioactive isotopes. Trash includes paper, glass, animal carcasses and lead shielding for Co-60 sources of millicurie size and over. Liquid residues have been mixed with Perlite #2 at rate of 2 volumes of Perlite to 1 volume of liquid to obtain a damp solid aggregated for shipping purposes (unknown weight for Co-60, C-14, H-3 Fe-59, Fe-55, Cr-51, S-35, Ag-1, and MFPS; 0.78 total curies)	Begin at a point 387 ft west and 20 ft north from southeast pit marker run 20 ft north and 3 ft west
OFF-UOW-1H	P2	OFFUOWSR110/10/6080050/Type A, three steel 55-gal drums with 4 in. concrete cap on top. Type B, 25 steel 5-gal drums with 3-in. concrete cap on top. Type C, 38 welded steel "fuze" box with 4 clamp sealed metal lid. Contents: Laboratory trash materials including animal carcasses, glassware, absorbent paper (unknown weight for Fe-59, H-3, C-14, Zn-65, Sr-90, Cr-51, Ca-45, Fe-55, Cs-137; 0.15 total curies, plus or minus 0.06 curies)	145 ft north of monument 40 and 50 ft west
OFF-UOW-1H	P2	OFFUOWSR106/09/6180020/ Miscellaneous laboratory trash including (1) Animal carcasses packed in lime, (2) waste absorbent paper, (3) glassware, (4) planchets (unknown weight for Sr-89, Mn-54, Co-60, Sn-113, H-3 C-14, S-35, Ca-45, Fe-59, Fe-55, Zn-65, Cr-51; 0.11 total curies)	Begin at a point 152 ft west and 90 ft north from southeast pit marker run 6 ft north and 3 ft west Burial Row #50
OFF-UOW-1H	P2	OFFUOWSR109/20/62800130/ 12 55-gal drums containing byproduct material contaminated laboratory trash (including animal carcasses, waste paper, broken and intact glassware, wet vermiculite) Packed in ICC-approved steel 55-gal drums (unknown weight for H-3, C-14, Fe-59, Fe-55, Cr-51, Co-60, S-3; 0.103 total curies)	405 ft east and 135 ft north of southwest pit marker
OFF-UOW-1H	P4	OFFUOWSR102/20/63800/ Laboratory solid trash contaminated with miscellaneous radioactive isotopes. Trash includes paper, glass, and animal carcasses allayed in dry unslacked lime. Liquids have been mixed with Perlite 2 (H-3, I-125, C-14, S-35, Sr-85, Cr-51, P-32, Cu-64, Fe-59, Zn-65, Co-60, Pm-147, I-131, H9-203, Cs-137, Fe-55, Sr-90, Co-45, 0.15 Ci)	330 ft east of west pit marker

Table A-58. (continued).

Waste Stream	Pit	Shipping Document Identification Number and Shipment Description	Burial Location
CPP-601-5H	P6	CPP601SR009/18/67810/ Miscellaneous (e.g., used oils and solvents). 10 55-gal drums are slightly surface contaminated 100–300 counts (unknown isotope, 0.001 Ci) (This waste appears to contain solvents, perhaps all those noted for this waste stream.)	30 ft north and 30 ft east of the southeast monument

ICC = Interstate Commerce Commission
MFP = mixed fission product

A-3.11 Diisopropyl-fluoro-phosphate

Diisopropyl-fluoro-phosphate is identified by CAS Number 55-91-4. This contaminant is potentially toxic. The constituents reported by HDT for waste stream OFF-UOW-1H includes diisopropyl-fluoro-phosphate. Four shipments make up the entire waste stream and all report liquids or absorbent paper. Table S-59 lists shipments containing diisopropyl-fluoro-phosphate.

Table A-59. Shipments containing diisopropyl-fluoro-phosphate.

Waste Stream	Pit	Shipping Document Identification Number and Shipment Description	Burial Location
OFF-UOW-1H	P2	OFFUOWSR112/12/6180040/ Contains laboratory trash contaminated with miscellaneous radioactive isotopes. Trash includes paper, glass, animal carcasses and lead shielding for Co-60 sources of millicurie size and over. Liquid residues have been mixed with Perlite #2 at rate of 2 volume of Perlite to 1 volumes of liquid to obtain a damp solid aggregated for shipping purposes (unknown weight for Co-60, C-14, H-3 Fe-59, Fe-55, Cr-51, S-35, Ag-1, and MFPs; 0.78 total curies)	Begin at a point 387 ft west and 20 ft north from southeast pit marker run 20 ft north and 3 ft W
OFF-UOW-1H	P2	OFFUOWSR110/10/6080050/Type A, three steel 55-gal drums with 4 in. concrete cap on top. Type B, 25 steel 5-gal drums with 3-in. concrete cap on top. Type C, 38 welded steel “fuze” box with four-clamp sealed metal lid. Contents: Laboratory trash materials including animal carcasses, glassware, absorbent paper (unknown weight for Fe-59, H-3, C-14, Zn-65, Sr-90, Cr-51, Ca-45, Fe-55, Cs-137; 0.15 total curies, plus or minus 0.06 Ci)	145 ft north of monument 40 and 50 ft west
OFF-UOW-1H	P2	OFFUOWSR106/09/6180020/ Miscellaneous laboratory trash including (1) animal carcasses packed in lime, (2) waste absorbent paper, (3) glassware, (4) planchets (unknown weight for Sr-89, Mn-54, Co-60, Sn-113, H-3 C-14, S-35, Ca-45, Fe-59, Fe-55, Zn-65, Cr-51; 0.11 total curies)	Begin at a point 152 ft west and 90 ft north from southeast pit marker run 6 ft north and 3 ft west Burial Row #50
OFF-UOW-1H	P2	OFFUOWSR109/20/62800130/ 12 55-gal drums containing byproduct material contaminated laboratory trash (including animal carcasses, waste paper, broken and intact glassware, wet vermiculite) Packed in ICC-approved steel 55-gal drums (unknown weight for H-3, C-14, Fe-59, Fe-55, Cr-51, Co-60, S-3; 0.103 total curies)	405 ft east and 135 ft north of southwest pit marker

Table A-59. (continued).

Waste Stream	Pit	Shipping Document Identification Number and Shipment Description	Burial Location
OFF-UOW-1H	P4	OFFUOWSR102/20/63800/ Laboratory solid trash contaminated with miscellaneous radioactive isotopes. Trash includes paper, glass, and animal carcasses allayed in dry unslacked lime. Liquids have been mixed with Perlite 2 (H-3, I-125, C-14, S-35, Sr-85, Cr-51, P-32, Cu-64, Fe-59, Zn-65, Co-60, Pm-147, I-131, H9-203, Cs-137, Fe-55, Sr-90, Co-45, 0.15 Ci)	330 ft east of west pit marker

ICC = Interstate Commerce Commission

A-3.12 Ethyl Alcohol

Ethyl alcohol is identified by CAS Number 64-17-5. The characteristic for this contaminant is ignitability. The HDT reported ethyl alcohol in waste stream OFF-WSU-1H. Because there was only one shipment in waste stream OFF-WSU-1H, the shipment to Pit 3 must include ethyl alcohol. Waste stream CPP-601-5H consists of organic solvents. The HDT reported ethyl alcohol in waste stream CPP-601-5H; therefore, ethyl alcohol is a possible constituent of the shipment to Pit 6 (see Table A-60).

Table A-60. Shipments containing ethyl alcohol.

Waste Stream	Pit	Shipping Document Identification Number and Shipment Description	Burial Location
OFF-WSU-1H	P3	OFFWSUSR105/28/6280010/ RWMIS: Eight 55-gal drums containing animal carcasses, paper, metal and wood (unknown weight for H-3, C-14, P-32, S-35, Ca-45, Co-60, Zn-65, Sr-8, Rb-86, I-131, Cs-137, Ce-144, Pa-147, Tl204, U-238, <0.01 Ci)	Begin at a point 290 ft south and 50 ft east from northwest pit marker. Run 15 ft east and 3 ft south.
CPP-601-5H	P6	CPP601SR009/18/67810/ Miscellaneous used oils, solvents, etc. 10 55-gal drums are slightly surface contaminated 100–300 counts (unknown isotope, 0.001 Ci) (This waste appears to contain solvents, perhaps all those noted for this waste stream.)	30 ft north and 30 ft east of the southeast monument

RWMIS = Radioactive Waste Management Information System

A-3.13 Formaldehyde

Formaldehyde is identified by CAS Number 50-00-0. This contaminant is listed because of its toxicity. The HDT states that animal carcasses in waste stream OFF-USN-1H were pickled in formaldehyde. The HDT reported formaldehyde as a constituent of waste stream OFF-UOU-1H; therefore, the shipment to Pit 3 from the University of Utah probably contains formaldehyde (see Table A-61).

Table A-61. Shipments containing formaldehyde.

Waste Stream	Pit	Shipping Document Identification Number and Shipment Description	Burial Location
OFF-USN-1H	P2	OFFUSNSR108/20/6280010/ 3 55-gal drums containing an ICC-approved drum containing animal carcasses. All carcasses sealed inside double plastic bags, inside drums (unknown weight for C-14; curie amount <0.0012 drum)	Buried 110 yd from northwest pit marker
OFF-USN-1H	P2	OFFUSNSR105/09/6380010/ 3 55-gal drums containing animal carcasses. All carcasses sealed inside double plastic bags, inside drums (unknown weight for C-14; <0.0012 total curies/drum)	70 ft east of west pit markers
OFF-UOU-1H	P3	OFFUOUSR109/17/6280010/ 50 55-gal drums and 1-wooden box containing radioactive excreta and embalmed dog carcasses mixed in concrete (unknown weight for strontium 90, 10 mCi)	30 ft west and 40 ft north of southeast pit marker.
OFF-USN-1H	P3	OFFUSNSR108/20/6281010/ 3 55-gal drums containing animal carcasses. All carcasses sealed inside double plastic bags, inside drums (unknown weight for C-14, <1.2 mCi/drum)	10 ft west and 20 ft north of southeast pit marker

ICC = Interstate Commerce Commission

A-3.14 Gasoline

Gasoline is potentially ignitable. Gasoline also contains benzene and this is usually sufficient to make it toxic. Table A-62 lists the shipments containing gasoline.

Table A-62. Shipment containing gasoline.

Waste Stream	Pit	Shipping Document Identification Number and Shipment Description	Burial Location
CPP-601-6H	P10	CPP601SR004/23/6980000/ Some gasoline left in tank. 250-gal gasoline tank. Potential fire hazard if spilled enroute	375 ft east and 40 ft south of northwest monument

A-3.15 Hydrofluoric Acid

Hydrofluoric acid is identified by CAS Number 7664393. This contaminant is listed because of its toxicity. Waste stream NRF-618-1H consists of dissolved fuel rods absorbed in vermiculite in poly bottles and the HDT reported hydrofluoric acid as a constituent of the waste stream. The shipment description implies the shipment may include hydrofluoric acid (see Table A-63).

Table A-63. Shipment containing hydrofluoric acid.

Waste Stream	Pit	Shipping Document Identification Number and Shipment Description	Burial Location
NRF-618-1H	P2	NRF618SR008/21/6280015050/ Rags, blotting paper, dissolution waste absorbed in Vermiculite filled poly bottles (unknown isotope, 200 mCi) (It appears that this waste could contain hydrofluoric acid.)	465 ft west and 60 ft south of northeast #2 pit marker

A-3.16 Kerosene

Kerosene was reported in the shipment description for the shipment to Pit 5. Kerosene may be ignitable depending on the particular grade. Table A-64 lists the shipment containing kerosene.

Table A-64. Shipments containing kerosene.

Waste Stream	Pit	Shipping Document Identification Number and Shipment Description	Burial Location
CPP-601-6H	P5	CPP601SR008/30/66100/ Kerosene containing (MFP, <3 Ci)	10 ft east and 160 ft north of southwest monument

MFP = mixed fission product

A-3.17 Lead

Lead is identified by CAS Number 7439-92-1. The characteristic for this contaminant is toxicity. Lead was specifically mentioned in the description of all shipments (see Table A-65) except for shipment TAN607SR001/12/70810, which has lead as the content code value in RWMIS. If lead were being used as shielding within the containers, it would not be regulated as a hazardous waste as long as it continues that function.

Table A-65. Shipments containing lead.

Waste Stream	Pit	Shipping Document Identification Number and Shipment Description	Burial Location
ARA-616-1H	P2	ARA616SR010/17/6280030/ Aluminum, stainless steel lead and rubber (unknown isotope, 0.05 Ci)	240 ft east of west pit marker
OFF-AEI-1H	P2	OFFAEISR103/01/61800150/ 13 55-gal barrels contain unused sources of Co-60 and Ce-144-Pr-144 encased in concrete and lead. (2) 37 55-gal barrels contain contaminated laboratory equipment and waste or contaminated asphalt and soil (unknown weight for Ce-144, Pr-144, Co-60, Sr-90, Yr-90, Kr-85, Cs-137; curie amount Co-60 = 4.1 curies; Ce-144 and Pr-144 = 0.9 curies; Kr-85 = 1.3, Cs-137 = 0.013 curies; Sr-90 and Yr-90 = 1 mCi.)	31 Barrels begin at a point 84 ft west and 45 ft north of southeast pit marker. Runs 25 ft north - Barrel Row #24. 19 Barrels begin at a point 87 ft west and 78 ft north of southeast marker. Runs 15 ft north. Barrel Row #25.

Table A-65. (continued).

Waste Stream	Pit	Shipping Document Identification Number and Shipment Description	Burial Location
OFF-ATI-1H	P2	OFFATISR104/26/61800200/ 136 55-gal steel drums of compressed dry waste. The waste is covered with a concrete cap. Four 55-gal drums are similar to the above, except the contents are a lead cask surrounded by concrete. Two 55-gal drums contain a lead cask. The cask is surrounded on all sides with concrete. The container has a lock on steel lid. 55 conduits, 3 ft diameter × 4 ft high or 4 ft diameter × 4 ft high. The conduits contain a 30-gal drum or other primary container surrounded by concrete. One wooden box containing a wash trough centered in the box and surrounded by reinforced concrete. Two 55-gal drums packaged similar to the above except contents are solidified liquid waste. Eight 55-gal drums with permanent lids containing bungs. The packages are filled with solidified liquid waste. 33 55-gal drums of solidified liquid waste that is stainless steel accountable. 181 55-gal drums containing compressed dry waste. 20 wooden containers containing dry waste (unknown weight for MFPs, stainless steel material, beryllium; 25.41 total curies)	Begins at a point 115 ft west and 50 ft north from southeast pit marker. Runs 50 ft north, 120 ft west, 25 ft south, 100 ft east, 25 ft south, 20 ft east to beginning
OFF-ATI-1H	P2	OFFATISR104/26/6181020022/ 31 55-gal steel drums containing a lead cask surrounded by concrete. The concrete is covered with a steel lid and the lip of the drum is crimped to retain the lid. Six 55-gal drums (ICC 6-C) containing a lead cask surrounded by concrete. The lid is a steel lock-on type. 11 Conduits – 3 ft diameter × 4 ft high or 4 × 4 ft. The conduits contain a 30-gal drum or other primary container enclosed in concrete (unknown weight for MFP; 11,533.58 total curies)	Begins at a point 115 ft west and 50 ft north from southeast pit marker. Runs 50 ft north, 120 ft west, 25 ft south, 100 ft east, 25 ft south, 20 ft east to Begin
OFF-ATI-1H	P2	OFFATISR108/07/618002000/ 299 55-gal steel drums containing compressed dry waste. The lid is a lock-on type (steel). 77 wooden boxes of various dimensions containing dry waste. 27 Conduits – 3 ft diameter × 4 ft high or 4 ft diameter × 4 ft high. Conduits contain 30-gal drum or other primary container encased in concrete. 10 55-gal drums - contains a lead pig encased in concrete. Nine wooden boxes filled with concrete. 22 in. square by 103 in. long. Contains dry waste. One 6 × 6 cask. Steel shell containing high density concrete. Package contains SNAP reactor shield plug including plutonium-beryllium source. 12 55-gal drums - contain compressed dry waste. Waste is covered by a concrete cap. One 55-gal drum - contain compressed dry or solidified liquid waste that is stainless steel accountable. Some drums are covered by a concrete cap. The remainder are enclosed by a lock-on lid (steel) (unknown weight for MFPs, U-235, beryllium, plutonium-beryllium source; 7751 total curies)	Begin at a point 200 ft west and 20 ft north from southeast pit marker run 60 ft north and 6 ft west also 215 ft west and 20 ft north from marker run 60 ft north and 3 ft west Boxes at 197 ft west and 0 ft north run 20 ft north and 18 ft west also at a point 218 ft west and 45 ft north run 30 ft north and 90 ft west.

Table A-65. (continued).

Waste Stream	Pit	Shipping Document Identification Number and Shipment Description	Burial Location
OFF-ATI-1H	P2	OFFATISR112/01/6180020022/ 55-gal steel drums containing compressed dry waste. The lid is a steel lock-on type. Wooden Boxes of various dimensions containing dry waste. The gross weight exceeds ICC specifications. Conduits 3 ft diameter × 4 ft high or 4 ft × 4 ft containing 30-gal drum or other primary container encased in concrete. 55-gal drum containing a lead pig encased in concrete. (C-81, C-237) Dry waste encased in a concrete filled wooden box. 55-gal drum-contains solidified liquid waste covered by concrete cap. (55-gal steel drums containing stainless steel Materials (unknown weight for MFPs, U-235, U-238, Thorium, Beryllium; 801 total curies)	Begin 18 ft west and 0 ft north from southeast pit marker fun 18 ft west and 20 ft north. Begin 54 ft west and 0 ft north run 120 ft west and 20 ft north. Begin 303 ft west and 20 ft north run 6 ft west and 30 ft north. Begin 333 ft west and 20 ft north run 39 ft west and 25 ft N
OFF-ATI-1H	P2	OFFATISR110/03/6280060 / 85 55-gal drums which contain compressed dry or solidified stainless steel accountable liquid radioactive by-product waste materials. 55 Conduits - packages are 3 ft diameter. By 4 ft long pipe sections. Each contains a lead wrapped 30-gal drum, encased in reinforced concrete. These packages contain dry radioactive by-product waste materials. 6 Boxes - packages are concrete boxes containing dry radioactive by-product waste materials surrounded by concrete containing steel reinforcing bars. 33 55-gal drums that contain dry radioactive by-product waste materials in lead inner container encased in steel reinforced concrete (unknown weight for MFP, U-235, thorium, plutonium; 2200.3 total curies)	300 ft east of west pit marker and 240 - 360 ft east of west pit marker
OFF-SAM-2H	P2	OFFSAMSR110/21/60800150/ One radioactive structure (shield used with Aircraft Shield Test Reactor). The unit is mounted on steel skids and is otherwise impractical to crate or package. Shield is almost entirely lead and stainless steel (unknown weight for Fe, Co; ~<0.1 total curies)	550 west and 25 south northeast
OFF-UOW-1H	P2	OFFUOWSR112/12/6180040/ Contains laboratory trash contaminated with miscellaneous radioactive isotopes. Trash includes paper, glass, animal carcasses and lead shielding for Co-60 sources of Millicurie size and over. Liquid residues have been mixed with Perlite #2 at rate of 2 volume of Perlite to 1 volumes of liquid to obtain a damp solid aggregated for shipping purposes (unknown weight for Co-60, C-14, H-3 Fe-59, Fe-55, Cr-51, S-35, Ag-1, and MFPs; 0.78 total curies)	Begin at a point 387 ft west and 20 ft north from southeast pit marker run 20 ft north and 3 ft W
TAN-607-3H	P2	TAN607SR010/11/62800100/ Stainless and Lead (unknown isotope, 0.02 Ci)	240 ft east of west pit marker
OFF-DPG-1H	P3	OFFDPGSR107/15/6280011010/ 5 wooden boxes containing lead and scrap metal (unknown weight for Co-60 and P-32, 510 curies) *15 barrels are listed on same invoice, but with different location. Listed under document ID OFFDP6SR107/15/6281011010. RWMIS: 2 wood boxes lead, 3 wood boxes metal scrap.	100 ft north and 30 ft west of southeast #3 pit marker.

Table A-65. (continued).

Waste Stream	Pit	Shipping Document Identification Number and Shipment Description	Burial Location
OFF-IXE-1H	P3	OFFIXESR103/07/6280030/ Iridium in lead cask steel encased and welded closed (unknown weight for Iridium 192, 60 curies)	188 ft south and 8 ft east from northwest pit marker.
TRA-603-26H	P3	TRA603SR006/05/61800100/ 6 wooden boxes containing lead and steel removal equipment from old Knolls Atomic Power Laboratory 30 loop at MTR, including cask, water tanks, shielding, tables, miscellaneous metal parts (unknown isotope; <0.1 total curies)	0+15 ft north and 0+05 ft east run 20 ft north
TRA-603-26H	P3	TRA653SR001/19/6281091/ Unknown number of poly and wood containers containing scrap lead (unknown isotope; 0.0001 total curies)	1+10 ft south and 0+50 ft west
CFA-633-1H	P4	CFA633SR005/06/661/ Contaminated plastic glovebox (MFP, 0.03 Ci) (Glovebox implies the possible presence of lead)	315 ft west and 35 ft north of southeast monument
CFA-687-1H	P4	CFA687SR008/16/661/ Lead slag and sand (unknown isotope, <0.001 Ci)	300 ft west of the southeast monument
CPP-601-6H	P4	CPP601SR012/15/66120/ Straw, lead and Junk (unknown isotope, <0.01 mCi)	225 ft west and 30 ft north of southeast monument
NRF-618-2H	P4	NRF618SR001/19/67800/ Trolley Hoist that is part of Capital Equipment tag #A12064, 5 DP cells tag#Z1016, Z1017, Z1034, and Z1040 and contaminated lead (unknown isotope, 1 mCi)	210 ft west and 40 ft north of southeast monument
OFF-IXE-1H	P4	OFFIXESR102/15/63800/ Steel encased lead cask centered in concrete filled oil drum. Lifting ring welded to supports of lead core and extends above concrete (Co-60, Ir-192, 60 Ci)	300 ft east of west pit marker
OFF-UNR-1H	P4	OFFUNRSR103/01/63800/ Material in block is solid waste materials (paper, wood, glassware, lead-shielded Co-60 sources. Sr-40 sources encased in plaster of Paris, H-3 as liquid absorbent material in polyethylene bottle sealed with plaster of Paris, and empty bottles. Block capped with 6-in. concrete (Co-60 = 15.3 Ci, H-3 = 10 Ci, Sr-90 = 3 Ci, MFP = 200 mCi)	3+10 ft east of the south west marker
ANL-767-1H	P5	ANL767SR004/18/66110/ Metal shear station in lead lined wooden box (unknown isotope, 0.5 Ci)	110 ft north of the southwest monument
ANL-767-1H	P5	ANL767SR006/30/66130/ Steel and Iron machine parts - in lead-lined wooden box 50x32x40 (MFP, 10 Ci)	140 ft north of the southwest monument
CPP-601-6H	P5	CPP601SR011/22/66120/ Lead, concrete, and iron (unknown isotope, 0.18 Ci)	170 ft north and 30 ft west of southwest monument

Table A-65. (continued).

Waste Stream	Pit	Shipping Document Identification Number and Shipment Description	Burial Location
TAN-607-4H	P5	TAN607SR007/31/64125/ Lead and steel scrap, 24 germanium actuator rods scrap (unknown isotope, 1.7 mCi)	100 ft south of northwest marker
NRF-601-1H	P6	NRF601SR005/16/68800/ Contaminated iron, lead, asbestos, canvas, poly (unknown isotope, 10 mCi)	90-100 ft west and 35-45 ft north of the southeast monument
NRF-601-1H	P6	NRF601SR006/19/68800/ Scrap valves and piping, washing machine, and lead bricks (Co-60, 50 mCi)	50 ft west and 30 ft north of the southeast monument
TAN-607-4H	P6	TAN607SR006/07/68800/ Lead and steel scrap, 24 germanium actuator rods scrap (unknown isotope, 1.7 mCi)	20-30 ft north and 70-80 ft west of the southeast monument
CFA-654-1H	P9	CFA654SR005/12/6980020/ Contaminated lead (MFP, 0.001 Ci)	105 ft south of northeast monument
TRA-642-6H	P9	TRA642SR009/05/68810100/ Stainless steel and lead (unknown isotope, <0.001 Ci)	170 ft south of northeast monument
ANL-765-1H	P10	ANL717SR005/24/711505/ steel jacket lead lined, steel extension casting (casing), steel base plate for cask (MFP, 5.00E-03 Ci)	260 ft west and 90 ft south of northeast monument
CFA-601-1H	P10	CFA601SR011/05/70800/ Lead pipe heater, pumps, tension tester (MFP, 0.001 Ci)	300 ft west and 60 ft south of northeast monument
CFA-690-1H	P10	CFA690SR003/17/70800/ Steel box and frame with lead shielding (MFP, 0.001 Ci)	360 ft west and 20 ft south of northeast monument
CPP-601-6H	P10	CPP601SR004/09/70800355/ Lead, wood, scrap material (MFP, 50 mCi)	355 ft west and 10 ft south of northeast monument
CPP-601-6H	P10	CPP601SR004/20/70800505/ Lead, unreadable, scrap metal, obtained from calciner cleanup (unknown isotope, 2.31 Ci)	335 ft west and 55 ft south of northeast monument
NRF-601-1H	P10	NRF601SR010/21/68800/ Six wooden boxes and one pallet of contaminated waste. Includes lead and poly plugs from S1W plant (unknown isotope, 12 mCi)	60 ft west and 65 ft north of SW - 2 Monument
NRF-601-1H	P10	NRF601SR006/26/69800/ Lead and steel core coffin barrel (unknown isotope, 100 mCi)	330-350 ft east and 15-20 ft north of SW-2 Monument
NRF-601-1H	P10	NRF601SR001/22/70810/Empty shipping containers constructed of lead and steel (unknown isotope, est. max of 10 mCi each cask, 70 mCi)	365 ft west and 15-45 south of northeast monument
NRF-617-2H	P10	NRF618SR007/08/71100/ Contaminated ducting, soil, and lead brick (Co-60, 1.00E-03 Ci)	270 ft west and 40 ft south of northeast monument

Table A-65. (continued).

Waste Stream	Pit	Shipping Document Identification Number and Shipment Description	Burial Location
NRF-617-2H	P10	NRF618SR007/28/70810/ Alpha box, scrap lumber from cell #10, lead bricks (unknown isotope, 0.005 Ci)	325 ft east and 50 ft south of northeast monument
TAN-607-5H	P10	TAN607SR001/12/70810/ Metal source cask mounted on wooden platform (RWMIS lead) (unknown isotope < 0.1 mCi)	380 ft west and 75 ft south of northeast pit marker
TRA-603-26H	P10	TRASR004/16/71245/ Blocks, scrap equipment, stainless steel, lead? (MFP = 0.0275 Ci)	280-300 ft west and 0-30 ft south
TRA-603-26H	P10	TRASR004/20/71250/ Stainless steel, lead shielding block, black iron, boxes, other scrap equipment (unknown isotope, 0.0825 Ci)	280-300 ft west and 20-40 ft south of northeast monument
TRA-603-26H	P10	TRASR004/21/71252/ Black iron, lead shielding, blocks, pallets, scrap equipment (unknown isotope, 0.0385 Ci)	280-300 ft west and 10-30 ft south of northeast monument

ICC = Interstate Commerce Commission
MFP = mixed fission product
SNAP = Systems for Nuclear Auxiliary Power
RWMIS = Radioactive Waste Management Information System

A-3.18 Magnesium

Magnesium is identified by CAS Number 7439-92-1. The characteristic for this contaminant is reactivity in a finely divided form. The HDT reported magnesium in the waste stream OFF-NMR-2H. Because only one shipment was included in the waste stream, the shipment must include magnesium. Table A-66 lists the shipments containing magnesium.

Table A-66. Shipments containing magnesium.

Waste Stream	Pit	Shipping Document Identification Number and Shipment Description	Burial Location
OFF-NMR-1H	P2	OFFNMRSR105/11/6180020/ 19 55-gal steel drums containing unknown contents. RWMIS: 1 bbl animal waste, 18 bbl paper equipment (unknown weight for MFPs; Cs-137, Sr-89, Sr-90, Y-90, Y-91, Zn-65, Fe-59, P-32, I-131, Ru-106, Co-60, H-3, Ce-144, Ca-45; <0.02 total curies)	Begins at a point 121 ft west and 20 ft north from southeast marker. Runs 50 ft north and 3 ft west
OFF-SAM-2H	P2	OFFSAMSR112/02/6080075/ 50 steel drums and one steel box containing irradiated steel aluminum, copper, tin, plastic, rubber, magnesium-thorium alloy, paper, fiberglass insulation, glass, dirt, mixed trash (unknown weight for iron, cobalt, copper, mag-thor, tin; 0.094 total curies)	Barrel Row #6, Beginning at 21 ft west and 26 ft north and continuing 15 yd north from south east pit marker

MFP = mixed fission product
RWMIS = Radioactive Waste Management Information System

A-3.19 Mercury

Mercury is identified by CAS Number 7439-97-6. The characteristic for this contaminant is toxicity. Mercury would be listed (U151) if unused. The shipment to Pit 2 reported mercury batteries. The shipment to Pit 4 reported batteries that indicate the possibility of mercury (see Table A-67).

Table A-67. Shipments containing mercury.

Waste Stream	Pit	Shipping Document Identification Number and Shipment Description	Burial Location
CFA-690-1H	P2	CFA690SR010/11/6281000/ Mercury Batteries	300 ft east of west pit marker
CFA-601-1H	P4	CFA601SR005/05/661/ Batteries, turbine, camera lens, paint cans (unknown isotope, 0.1 Ci)	315 ft west and 35 ft north of southeast monument

A-3.20 Methyl Alcohol

Methyl alcohol is identified by CAS Number 67-56-1. The characteristic for this contaminant is ignitability. Methyl alcohol could also be listed if unused (U154) or if used for solvent (F003). The constituents reported by HDT for waste stream OFF-UOW-1H includes benzene. Four shipments make up the entire waste stream and all report liquids or absorbent paper and may contain methyl alcohol. The HDT reported methyl alcohol in waste stream OFF-WSU-1H. Because only one shipment was included in waste stream OFF-WSU-1H, the shipment must include methyl alcohol. Table A-68 lists shipments containing methyl alcohol.

Table A-68. Shipments containing methyl alcohol.

Waste Stream	Pit	Shipping Document Identification Number and Shipment Description	Burial Location
OFF-UOW-1H	P2	OFFUOWSR112/12/6180040/ Contains laboratory trash contaminated with miscellaneous radioactive isotopes. Trash includes paper, glass, animal carcasses and lead shielding for Co-60 sources of millicurie size and over. Liquid residues have been mixed with Perlite #2 at rate of 2 volume of Perlite to 1 volumes of liquid to obtain a damp solid aggregated for shipping purposes (unknown weight for Co-60, C-14, H-3 Fe-59, Fe-55, Cr-51, S-35, Ag-1, and MFPs; 0.78 total curies)	Begin at a point 387 ft west and 20 ft north from southeast pit marker run 20 ft north and 3 ft west
OFF-UOW-1H	P2	OFFUOWSR110/10/6080050/Type A, 3 steel 55-gal drums with 4 in. concrete cap on top. Type B, 25 steel 5-gal drums with 3-in. concrete cap on top. Type C, 38 welded steel “fuze” box with 4 clamp sealed metal lid. Contents: Laboratory trash materials including animal carcasses, glassware, absorbent paper (unknown weight for Fe-59, H-3, C-14, Zn-65, Sr-90, Cr-51, Ca-45, Fe-55, Cs-137; 0.15 total curies, plus or minus 0.06 Ci)	145 ft north of monument 40 and 50 ft west

Table A-68. (continued).

Waste Stream	Pit	Shipping Document Identification Number and Shipment Description	Burial Location
OFF-UOW-1H	P2	OFFUOWSR106/09/6180020/ Miscellaneous laboratory trash including (1) animal carcasses packed in lime, (2) waste absorbent paper, (3) glassware, (4) planchets (unknown weight for Sr-89, Mg-54, Co-60, Sn-113, H-3 C-14, S-35, Ca-45, Fe-59, Fe-55, Zn-65, Cr-51; 0.11 total curies ⁵¹)	Begin at a point 152 ft west and 90 ft north from southeast pit marker run 6 ft north and 3 ft west Burial Row #50
OFF-UOW-1H	P2	OFFUOWSR109/20/62800130/ 12 55-gal drums containing byproduct material contaminated laboratory trash (including animal carcasses, waste paper, broken and intact glassware, wet vermiculite) Packed in ICC-approved steel 55-gal drums (unknown weight for H-3, C-14, Fe-59, Fe-55, Cr-51, Co-60, S-3; 0.103 total curies)	405 ft east and 135 ft north of southwest pit marker
OFF-WSU-1H	P3	OFFWSUSR105/28/6280010/ RWMIS: Eight 55-gal drums containing animal carcasses, paper, metal and wood (unknown weight for H-3, C-14, P-32, S-35, Ca-45, Co-60, Zn-65, Sr-8, Rb-86, I-131, Cs-137, Ce-144, Pa-147, Tl204, U-238, <0.01 Ci)	Begin at a point 290 ft south and 50 ft east from northwest pit marker. Run 15 ft east and 3 ft south.
OFF-UOW-1H	P4	OFFUOWSR102/20/63800/ Laboratory solid trash contaminated with miscellaneous radioactive isotopes. Trash includes paper, glass, and animal carcasses allayed in dry unslacked lime. Liquids have been mixed with Perlite 2 (H-3, I-125, C-14, S-35, Sr-85, Cr-51, P-32, Cu-64, Fe-59, Zn-65, Co-60, Pm-147, I-131, H9-203, Cs-137, Fe-55, Sr-90, Co-45, 0.15 Ci)	330 ft east of west pit marker

ICC = Interstate Commerce Commission
MFP = mixed fission product
RWMIS = Radioactive Waste Management Information System

A-3.21 Methyl Isobutyl Ketone

Methyl isobutyl ketone is identified by CAS Number 108-10-1. The characteristic for this contaminant is ignitability. Waste stream CPP-601-5H consists of organic solvents. The HDT reported methyl isobutyl ketone in waste stream CPP-601-5H; therefore, methyl isobutyl ketone is a possible constituent of the shipment to Pit 6. Table A-69 lists the shipment containing methyl isobutyl ketone.

Table A-69. Shipment containing methyl isobutyl ketone.

Waste Stream	Pit	Shipping Document Identification Number and Shipment Description	Burial Location
CPP-601-5H	P6	CPP601SR009/18/67810/ Miscellaneous (e.g., used oils and solvents). 10 55-gal drums are slightly surface contaminated 100–300 counts (unknown isotope, 0.001 Ci) (This waste appears to contain solvents, perhaps all those noted for this waste stream.)	30 ft north and 30 ft east of the southeast monument

A-3.22 Nitric acid

Nitric acid is identified by CAS Number 7697-37-2. The characteristic for this contaminant is corrosivity and reactivity. Waste stream OFF-GDA-1H reported nitric acid as a constituent; however, the acid was reported as neutralized and solidified in Portland cement in all shipments reporting acid. The shipment to Pit 6 assigned to waste stream NRF-618-618 contained nitric acid, but the acid should have been buried in the Acid Pit with only the empty container being buried in the pit. The HDT reported waste stream OFF-UNR-1H as containing nitric acid and because only one shipment is reported for the waste stream, it should contain nitric acid. Table A-70 lists shipments containing nitric acid.

Table A-70. Shipments containing nitric acid.

Waste Stream	Pit	Shipping Document Identification Number and Shipment Description	Burial Location
OFF-GDA-1H	P2	OFFGDASR105/20/61800200/ 220 55-gal drums and two wooden boxes containing shoe covers, clothing, towels, hand towels, industrial wipes, scrap metal, scrapwood, scrap glass, fiber glass filters, acid solidified in Portland cement. Dirt, cement and liquids solidified in plaster. Loose material pressure packed in steel drums or loose packed in wood crates (unknown weight for U-235, U-238, Co-60? and MFP; curie amount <1)	Begins at a point 100 ft west and 20 ft north from southeast pit marker run 60 ft north and 6 ft west Burial Row #33 and 34. Boxes begin at a point 133 ft west and 75 ft north from southeast pit marker run 33 ft west and 11 ft north.
OFF-GDA-1H	P2	OFFGDASR110/10/62800200/ 140 55-gal drums containing dry, solid state waste, shoe covers, towels, wood, industrial wipes, fiberglass filters, acid solidified and neutralized in cement, scrap metal and glass (unknown weight for U-235, U-238, Th-232, Co-60 and MFPs; <1 total curie)	330 ft east of west pit marker
OFF-GDA-1H	P2	OFFGDASR111/15/62810200/ 100 55-gal drums containing dry, solid state waste, shoe covers, towels, wood, industrial wipes, fiberglass filters, acid solidified and neutralized in cement, scrap metal and glass. Items loose pressure packed in drums (unknown weight for U-235, U-238, Th-232, Co-60 and MFPs; <1 total curie)	285 ft east of west pit markers
OFF-GDA-1H	P2	OFFGDASR112/18/62820200/ 80 55-gal drums containing dry, solid state waste, shoe covers, towels, wood, industrial wipes, fiberglass filters, acid solidified and neutralized in cement, scrap metal and glass (unknown weight for U-235, U-238, Th-232, Co-60 and MFPs; <1 total curie)	240 ft east of west pit marker
OFF-GDA-1H	P2	OFFGDASR104/30/63800200/ 160 55-gal drums containing low level waste dry solid state - shoe covers, towels, industrial wipes, filters scrap metal and glass - acid neutralized and solidified in Portland cement and vermiculite. (10g of U-235, unknown weight for U-238, Th-232, Co-60, and MFPs; 0.20 curies)	95 ft east of the west pit markers

Table A-70. (continued).

Waste Stream	Pit	Shipping Document Identification Number and Shipment Description	Burial Location
NRF-618-6H	P3	NRF618LR005/01/6180000/ 25 55-gal barrels containing acid, nitric 67.2% by volume concentrated. Dispose in burial ground Acid Pit using wood platform. Liquid is to be emptied into the Acid Pit and drums buried in Pit 3 (unknown isotope; Unknown curie amount)	Pit #3 and Acid Pit as per instructions in "Description" column **
OFF-GDA-1H	P3	OFFGDASR104/30/628005/ 120 55-gal drums containing dry, solid state waste shoe covers, towels, wood, industrial wipes, fiberglass filters acid solidified and neutralized in cement, scrap metal and glass (unknown weight for: U-235, U-238, Co-60, Th232 and MFPs, < 0.5 Ci)	Begin at point 185 ft south and 0 ft east from northwest pit marker. Run 9 ft south and 90 ft east
OFF-GDA-1H	P3	OFFGDASR106/28/62800200/ 70 55-gal drums containing dry, solid waste, shoe covers, towels, wood, industrial wipes, fiberglass filters, acid solidified and neutralized in cement, scrap metal and glass. Item loose pressure packed in drums (unknown weight for: U-235, U-238, Co-60, Th-232 < 1 Ci)	Begin at a point 328 ft south of northwest #3 trench marker. Run 60 ft east and 6 ft south.
OFF-GDA-1H	P4	OFFGDASR101/22/63800/ 60 55-gal drums with dry, solid state waste, shoe covers, towels, wood, industrial wipes, fiberglass filters, acid solidified and neutralized in cement, scrap metal and glass (U-235, U-238, Th-232, Co-60, MFP, < 1 Ci)	270 ft east of west pit marker
OFF-GDA-1H	P4	OFFGDASR108/05/63800/ Low level waste, dry solid state - shoe covers, towels, industrial wipes, filters, scrap metal, glass and scrap wood and nitric acid neutralized and solidified in Portland cement (Depleted U, traces U-235, U-238, Th-232, Co-60, < 200 mCi, RWMIS: 800 mCi)	1+80 from west end, 0+75 from north side (RWMIS: this only) 1+85 from west end, 0 to 0+60 from north side
OFF-GDA-1H	P4	OFFGDASR108/05/63810/ Low level waste, dry solid state - shoe covers, towels, industrial wipes, filters, scrap metal, glass and scrap wood and nitric acid neutralized and solidified in Portland cement (depleted uranium, traces U-235, U-238, Th-232, Co-60, < 200 mCi)	1+80 from west end, 0+75 from north side 1+85 from west end, 0 to 0+60 from north side (RWMIS: this only)
OFF-UNR-1H	P4	OFFUNRSR103/01/63800/ Material in block is solid waste material (e.g., paper, wood, glassware, lead-shielded Co-60 sources). Sr-90 sources encased in plaster of Paris, H-3 as liquid absorbent material in polyethylene bottle sealed with plaster of Paris, empty bottles etc. Block capped with 6-in. concrete (Co-60 = 15.3 Ci, H-3 = 10 Ci, Sr-90 = 3 Ci, MFP = 200 mCi)	3+10 ft east of the south west marker

MFP = mixed fission product

RWMIS = Radioactive Waste Management Information System

A-3.23 Oil

Oil can possibly be toxic if it contains heavy metals or benzene in sufficient quantities to exceed TCLP limits. Shipments listed in Table A-71 explicitly reported oil in the shipment descriptions.

Table A-71. Shipments containing oil.

Waste Stream	Pit	Shipping Document Identification Number and Shipment Description	Burial Location
NRF-618-6H	P3	NRF617SR007/11/66151/ Unknown number of metal oil tanks containing low level waste oil (unknown isotope; 1.46E-05 total curies)	Shallow liquid Pit #3
NRF-618-6H	P3	NRF617SR012/09/66151/ Unknown number of metal oil tanks containing tank of low level waste oil (unknown isotope; 1.46E-06 total curies)	Shallow Liquid Pit #3
NRF-618-6H	P3	NRF617SR008/02/6781051/ Unknown number of metal oil tanks containing LLW oil. Contamination spread if tanker is broken (unknown isotope; 1.5E-05 total curies)	Liquid Pit #3
NRF-618-6H	P3	NRF617SR003/25/6880051/ Unknown number of metal oil tanks containing LLW oil. Contamination spread if tank is broken (unknown isotope; 0.0000146 total curies)	Unknown
NRF-618-6H	P3	NRF617SR005/13/6880051/ Unknown number of metal tanks containing LLW oil. Contamination spread if tanker is broken (unknown weight for Co-60; 1.5E-05 total curies)	Unknown
NRF-618-6H	P5	NRF617SR001/20/66251/ Tank of contaminated waste oil (Co-60, 46 µCi)	75 ft northwest of the southwest monument
NRF-618-6H	P9	NRF617SR005/22/6880010/ Waste oil sludge (Co-60, 17 µCi)	85 ft north and 40 ft west of southeast monument
NRF-618-6H	P10	NRF617SR005/14/71900/ Metal, wood, paper waste and 3 solidified waste oil drums - AIW (55 gal) (Co-60, 0.002 Ci)	280-290 ft west and 10-20 ft south of northeast monument
NRF-618-6H	P10	NRF617SR002/25/71120/ 66 ft ³ oil absorbed in fullers earth, 18 ft ³ parts, refer to WSRC-3413, C-3425, and 8 ft ³ scrap metal pipe (Co-60, 1.0 µCi)	300-315 ft west and 50-60 ft south of northeast monument

LLW = low-level waste

A-3.24 Perchloric Acid Residue

Perchloric acid is a strong acid used for digestions of organic material. At elevated temperatures it is an exceedingly strong and active oxidizing agent. Table A-72 lists the shipment containing perchloric acid residue.

Table A-72. Shipment containing perchloric acid residue.

Waste Stream	Pit	Shipping Document Identification Number and Shipment Description	Burial Location
CFA-690-1H	P4	CFA690SR008/22/67800/ Six each chemical hoods approx 7 ft h x 3 ft d x 5 ft l located in rooms 22 and 24 of CF646--Perchloric residue, not suitable for surplus per J. White 8/21/67 (unknown isotope, 0.001 Ci)	15 ft -20 ft west of southeast monument

A-3.25 Resin

Heavy metals such as cadmium may be on the resin although no specific contaminant may be identified. Note that there are additional shipments that contain unspecified resin. Table A-73 shows shipments containing resin.

Table A-73. Shipments containing resin.

Waste Stream	Pit	Shipping Document Identification Number and Shipment Description	Burial Location
NRF-618-6H	P4	NRF617SR002/07/63800/ Used HOH resin with approximately 10 gal of water (Co-60, 0.385 mCi)	270 ft east of west pit marker
NRF-618-6H	P4	NRF617SR002/07/63810/ Used LiOH resin with approximately 10 gal of water in 8 ft x 6 ft diameter concrete shielded tank (Co-60, 1.55 Ci)	270 ft east of west pit marker
NRF-618-61H	P4	NRF617SR011/06/63800/ 27 cubic ft of HOH resin with approximately 1 gal of water enclosed in steel and concrete cylinder (Co-60, 4 mCi)	125 ft from west end, 20 ft from north side
NRF-618-6H	P4	NRF617SR011/14/63800/ 27 ft ³ of HOH resin with approximately 1 gal of water enclosed in steel and concrete cylinder (Co-60, 4 mCi)	125 ft from west end, 30 ft from north side

A-3.26 Sodium Nitrate

Sodium nitrate is identified by CAS Number 7631-99-4. This contaminant might meet the definition of oxidizer (ignitable) dependent on the concentration. The HDT reported sodium nitrate in the waste stream OFF-NMR-2H. Because only one shipment was included in the waste stream, the shipment must include sodium nitrate (see Table A-74).

Table A-74. Shipment containing sodium nitrate.

Waste Stream	Pit	Shipping Document Identification Number and Shipment Description	Burial Location
OFF-NMR-1H	P2	OFFNMRSR105/11/6180020/ 19 55 gal steel drums containing unknown contents. RWMIS: 1 bbl animal waste, 18 bbl paper equipment (unknown weight for MFPs; Cs-137, Sr-89, Sr-90, Y-90, Y-91, Zn-65, Fe-59, P-32, I-131, RU-106, Co-60, H-3, Ce-144, Ca-45; <0.02 total curies)	Begins at a point 121 ft west and 20 ft north from southeast marker. Runs 50 ft north and 3 ft W

MFP = mixed fission product

RWMIS = Radioactive Waste Management Information System

A-3.27 Sodium Potassium Alloy

Sodium potassium alloy is identified by CAS Number 11135-81-2. The characteristic for this contaminant is reactivity. Sodium potassium alloy was reported in the shipment description (see Table A-75).

Table A-75. Shipments containing sodium potassium alloy.

Waste Stream	Pit	Shipping Document Identification Number and Shipment Description	Burial Location
CPP-601-2H	P10	CPP601SR005/07/708003000100/ NaK tube bundle, metal tube bundle WC-302 (MFP, 0.5 Ci)	320 ft west and 75 ft south of northeast monument

MFP = mixed fission product

A-3.28 Toluene

Toluene is identified by CAS Number 108-88-3. The characteristic for this contaminant is ignitability. Toluene is listed, if unused (U220) or if used for its solvent properties (F005) because of its toxicity. The HDT reported toluene for waste stream PER-ORM-1H. The organic waste reported in the shipments may also contain toluene. The HDT reported toluene in waste stream OFF-WSU-1H. Only one shipment (see Table A-76) was included in waste stream OFF-WSU-1H; therefore, the shipment must include toluene.

Table A-76. Shipments containing toluene.

Waste Stream	Pit	Shipping Document Identification Number and Shipment Description	Burial Location
PER-ORM-1H	P4	PERAIISR006/24/63800/ Organic waste and residue in 51 55-gal drums (unknown isotope, 0.7 Ci)	2+25 from west, 0+50 from north
PER-ORM-1H	P4	PERAIISR007/10/63800/ Organic waste and residue in 56 full 55-gal drums and seven empty drums (unknown isotope, 0.75 Ci)	2+75 and 3+35
PER-ORM-1H	P4	PERAIISR007/12/63810/ Organic waste and residues in drums of absorbent, 42 full, two empties (unknown isotope, 1.4 Ci)	2+90 from west end, 0+80 from north side
PER-ORM-1H	P4	PERAIISR007/19/63800/ Organic waste, cardboard, wood, steel, two full drums, and empty drums (unknown isotope, 100 mCi)	300 ft from west end, 180 ft from north side
PER-ORM-1H	P4	PERAIISR008/03/63742/ Organic waste and residue, empty drums, steel and wood, miscellaneous scrap (unknown isotope, 50 mCi)	200 ft from west end, 80 ft from north side
OFF-WSU-1H	P3	OFFWSUSR105/28/6280010/ RWMIS: eight 55-gal drums containing animal carcasses, paper, metal and wood (unknown weight for H-3, C-14, P-32, S-35, Ca-45, Co-60, Zn-65, Sr-8, Rb-86, I-131, Cs-137, Ce-144, Pa-147, Tl-204, U-238, <0.01 Ci)	Begin at a point 290 ft south and 50 ft east from northwest pit marker. Run 15 ft east and 3 ft south.

MFP = mixed fission product

RWMIS = Radioactive Waste Management Information System

A-3.29 Trichloroethylene

Trichloroethylene is identified by CAS Number 79-01-6. The characteristic for this contaminant is toxicity. Constituents for waste stream PER-ORM-1H reported by HDT include trichloroethylene. Organic waste was reported in shipments to Pit 4 (see Table A-77); therefore, they may contain trichloroethylene.

Table A-77. Shipments containing Trichloroethylene.

Waste Stream	Pit	Shipping Document Identification Number and Shipment Description	Burial Location
PER-ORM-1H	P4	PERAIISR006/24/63800/ Organic waste and residue in 51 55-gal drums (unknown isotope, 0.7 Ci)	2+25 from west, 0+50 from north
PER-ORM-1H	P4	PERAIISR007/10/63800/ Organic waste and residue in 56 full 55-gal drums and seven empty drums (unknown isotope, 0.75 Ci)	2+75 and 3+35
PER-ORM-1H	P4	PERAIISR007/12/63810/ Organic waste and residues in drums of absorbent, 42 full, two empties (unknown isotope, 1.4 Ci)	2+90 from west end, 0+80 from north side
PER-ORM-1H	P4	PERAIISR007/19/63800/ Organic waste, cardboard, wood, steel, two full drums, and empty drums (unknown isotope, 100 mCi)	300 ft from west end, 180 ft from north side
PER-ORM-1H	P4	PERAIISR008/03/63742/ Organic waste and residue, empty drums, steel and wood, miscellaneous scrap (unknown isotope, 50 mCi)	200 ft from west end, 80 ft from north side

A-3.30 Xylene

Xylene is identified by CAS Number 1330-20-7. The characteristic for this contaminant is ignitability. Xylene could be listed if unused (U239) or if used for solvent properties (F003). The HDT reported xylene for waste stream PER-ORM-1H. The organic waste reported in the shipments (see Table A-78) may also contain toluene

Table A-78. Shipments containing organic xylene.

Waste Stream	Pit	Shipping Document Identification Number and Shipment Description	Burial Location
PER-ORM-1H	P4	PERAIISR006/24/63800/ Organic waste and residue in 51 55-gal drums (unknown isotope, 0.7 Ci)	2+25 from west, 0+50 from north
PER-ORM-1H	P4	PERAIISR007/10/63800/ Organic waste and residue in 56 full 55-gal drums and 7 empty drums (unknown isotope, 0.75 Ci)	2+75 and 3+35
PER-ORM-1H	P4	PERAIISR007/12/63810/ Organic waste and residues in drums of absorbent, 42 full, 2 empties (unknown isotope, 1.4 Ci)	2+90 from west end, 0+80 from north side
PER-ORM-1H	P4	PERAIISR007/19/63800/ Organic Wastes, cardboard, wood, steel, 2 full drums, and empty drums (unknown isotope, 100 mCi)	300 ft from west end, 180 ft from north side
PER-ORM-1H	P4	PERAIISR008/03/63742/ Organic waste and residues, empty drums, steel and wood, miscellaneous scrap (unknown isotope, 50 mCi)	200 ft from west end, 80 ft from north side

A-3.31 Zirconium

Zirconium is identified by CAS Number 7440-67-7. When finely divided, zirconium can spontaneously ignite and should be regarded as a fire and explosion hazard. A fire did occur in a drum containing zirconium shavings at the SDA. Table A-79 lists shipments containing zirconium.

Table A-79. Shipments containing zirconium.

Waste Stream	Pit	Shipping Document Identification Number and Shipment Description	Burial Location
NRF-618-5H	P2	NRF618SR009/27/628006000100/ Cell 7 liner and components. Cask containing solid Zr-95 scrap metal, all items sufficiently wrapped (unknown isotope, 40 Ci)	450 ft east of northwest pit marker
CPP-601-7H	P9	CPP601SR009/22/67800200/ Scrap zirconium and zirconium alloy- miscellaneous shapes and sizes from large pieces to long thin strips (unknown isotope, 0.1 Ci)	180-210 ft north and 0-20 ft west of southeast monument
CPP-601-7H	P9	CPP601SR009/22/67810200/ Zirconium scrap with some natural uranium (uranium, <0.1) (182 kg natural uranium)	150-180 ft north and 0-10 ft east of southwest monument
NRF-601-1H	P10	NRF601SR003/19/70830/ 12 neptunium foils, 12 U-235 foils, 12 plutonium foils, 750 U-Zr wires, 1 U-235 foil, 12 U-235 strontium flux wires, oneutonium, aluminum foil (Np-Pu 1 Ci)	365 ft west and 45 ft south of northeast monument

Appendix B

Shipment Record Data for Non-Rocky Flats Plant Shipments to the Subsurface Disposal Area

Appendix B

Shipment Record Data for Non-Rocky Flats Plant Shipments to the Subsurface Disposal Area

Table B-1. Shipment record data for non-Rocky Flats Plant Shipments to the Subsurface Disposal Area.

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
ANL-EBRI-1H		Asbestos (59-59) - Unk (PUL 560 kg)	Unk (PUL 560 kg)	EBR-1-601 Reactor Building and Annex. Other core, reactor vessel, loop components and miscellaneous waste. (1958 - 1963) (5914 ft ³) This waste stream is in the HDT.	5,914	
ANL-601				No waste stream in the HDT could be identified with shipments with source ANL-601. Both EBR-1 and EBR-II can possibly be associated with ANL-601.		
ANL-601 ?	P4			ANL601SR012/20/66800 / Wood and plastic, low level contamination (unknown isotope, 4 uCi)	35	225' West and 30' North
ANL-601 ?	P5			ANL601SR001/18/66100 / 10 Empty wooden boxes and (6) pallets (unknown isotope, 3.0 uCi)	70	90' East & 60' North of S/W Monument
ANL-601 ?	P5			ANL601SR008/20/66128 / Iron & wood (unknown isotope, 100 mCi)	1000	190' North & 40' East of S/W Monument
ANL-601 ?	P5			ANL601SR008/22/66120 / Iron, wood, and canvas (unknown isotope, 20 mCi)	150	190' South of N/E Monument
ANL-601 ?	P10			ANL601SR005/04/71800 / Metal shipping drums, empty (MFP, 1.00E-03 Ci)	128	275' West & 60' South of NE Monument
ANL-711				No waste stream in the HDT could be identified with shipments with source ANL-711.		
ANL-711 ?	P10			ANL711SR002/05/7080020 / Metal, plastic, paper, wood, etc. (unknown isotope, <0.001 Ci)	80	Station 3+25 West center
ANL-711 ?	P10			ANL711SR005/15/69800 / Metal (unknown isotope, <.001 mCi)	100	170' East & 10' North of SW -2 Monument

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
ANL-717				BORAX Reactor Building, AEF-601, later redesignated Bldg 717 No waste stream in the HDT could be identified with shipments with source ANL-711.		
ANL-717 ?	P10			ANL717SR005/24/71144 / Core structure Borax 5 SS (Co60 & unk, 5.00E-01 Ci)	240	270' West & 95' South of NE Monument
ANL-717 ?	P10			ANL717SR005/24/711500 / Core structure Borax 5 AL (MAP, 1.00E-04 Ci)	240	260' West & 90' South of NE Monument
ANL-717 ?	P10			ANL717SR005/26/71140 / Core structure Borax 5 99 (Co60 & unk., 1.6 Ci)	240	270' West & 95' South of NE Monument
ANL-750				No waste stream in the HDT could be identified with shipments with source ANL-750.		
ANL-750 ?	P10			ANL750SR001/25/71108 / 1 M.R. furnace base, 1-glass scrap dumper (Mn54, Co58, Cr51, 850 Ci)	90	290-300' West & 15-45' South of NE Monument
ANL-750 ?	P10			ANL750SR002/05/71175 / Metal (unknown isotope, 30 mCi)	40	260-280' West & 50-70' South of NE Monument
ANL-750 ?	P10			ANL750SR002/09/71176 / Wood (unknown isotope, 10 mCi)	30	280-300' West & 50-70' South of NE Monument
ANL-750 ?	P10			ANL750SR002/16/71109 / 1- M.R. furnace base, 1- injection casting furnace base #2, 1 ply wood box of contaminated wood (U235 (52%), U238 (48 %), 2000 Ci)	298	290-300' West & 15-45' South of NE Monument
ANL-750 ?	P10			ANL750SR002/24/71112 / Metal (MFP, 100 mCi)	160	300-315' West & 15-40' South of NE Monument
ANL-765-1H		Lead (62-83) - 3308 lb Asbestos (66-83) - Unk (ULE 2300 kg)	3308 lb* Unk (ULE 2300 kg)	ANL-765 - Fuel Conditioning Facility. "Dry active waste" routinely generated in facility monitoring, operation, & maintenance. This waste stream was also called "General Plant Waste" (1966 - 1983) (1815 m3) This waste stream is listed in the HDT.	64096	

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
ANL-765-1H ?	P10	Asbestos		ANL711SR002/03/70800 / Metal, plastic, asbestos (unknown isotope, <0.001 Ci)	30	385' West & 10' South of NE Monument
ANL-765-1H?	P10	Lead		ANL717SR005/24/711505 /Steel jacket lead lined, steel extension casting (casing), steel base plate for cask (MFP, 5.00E-03 Ci)	10	260' West & 90' South of NE Monument
ANL-765-1H ?	P10			ANL765SR002/09/70800 / Steel parts in a wood box contaminated tools (unknown isotope, 1 mCi)	66	375' West & 85' South of NE Monument
ANL-765-1H ?	P10			ANL765SR006/23/71120 / Scrap trailer bed parts (MFP, 5.00E-03 Ci)	50	275' West & 30' South of NE Monument
ANL-765-2H		Lead (77-83) - Unk (no est.)	Unk (no est)	ANL-765 - Fuel Conditioning Facility. FCF hot cell waste. Sub-assembly hardware (from nuclear fuel and material experiments), gloves, coveralls, plastic, & sample materials. (1977 - 1983) (12.32 m3) This waste stream is listed in HDT.	435	
ANL-767-1H				EBR-II-601 Reactor Plant (ANL-767) "Dry active waste" routinely generated in facility monitoring, operation, & maintenance. This waste stream was also called "General Plant Waste". This waste stream includes waste from ANL-720, ANL-793, and ANL-EBR II (1962 - 1971) (650 m3) This waste stream is listed in HDT. Note: several shipments with source ANL-767 have dates that do not match waste stream.	22,954.5	
ANL-767-1H ?	P5	Lead	??	ANL767SR004/18/66110 / Metal shear station in lead lined wooden box (unknown isotope, 0.5 Ci)	48	110' North of the S/W Monument
ANL-767-1H ?	P5	Lead	??	ANL767SR006/30/66130 / Steel and Iron machine parts - in lead-lined wooden box 50x32x40 (MFP, 10 Ci)	36	140' North of the S/W Monument
ANL-767-1H ?	P2			ANL767SR008/21/6280050 / Paper, wood, plastic, wire (unknown isotope, <0.0001Ci)	75	Low level waste pit. 465' West and 60' South of NW #2 pit marker
ANL-767-1H	P3			ANL767SR003/30/6180050 / Unknown number of cardboard boxes containing paper, plastic, wood wire, cardboard, etc. (Unknown isotope; <0.01 total curies)	55	Unknown

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
ANL-767-1H	P3			ANL767SR004/11/6180020 / Unknown number of cardboard boxes containing paper, plastic, wood, wire, cardboard, etc. (Unknown isotope; <0.01 total curies)	55	1+00 S & 0+05 W
ANL-767-1H	P3			ANL767SR004/18/61800102 / Unknown number of cardboard and wooden boxes containing rags, wooden radioactive shipment boxes, etc. (Unknown isotope; 0.01 total curies)	133	1+00 S & 0+40 W
ANL-767-1H	P3			ANL767SR005/02/6180020 / Unknown number of cardboard boxes containing cardboard boxes, rags, plastic, etc. (Unknown isotope; <0.001 total curies)	55	0+90 S & 0+45 W
ANL-767-1H	P3			ANL767SR005/05/6180030 / Unknown number of cardboard boxes containing cardboard boxes, rags, wooden boxes, etc. (Unknown isotope; 0.01 total curies)	120	1+10 S & 0+25 W
ANL-767-1H	P3			ANL767SR005/19/6180020 / Unknown number of cardboard boxes containing cardboard boxes, paper, wood, etc. (Unknown isotope; <0.0001 total curies)	75	1+05 S & 0+20 W
ANL-767-1H	P3			ANL767SR007/11/6180010 / Unknown number of cardboard boxes containing paper, wood, plastic, etc. (Unknown isotope; <0.001 total curies)	70	1+20 S & 0+25 W
ANL-767-1H	P3			ANL767SR008/17/6180020 / Unknown number of dumpsters containing paper, plastic, cotton rags, etc. (Unknown isotope; <0.001 total curies)	32	1+20 S & 0+10 W
ANL-767-1H	P3			ANL767SR010/31/6180020 / Unknown number of dumpsters containing paper, plastic, wood etc. (Unknown isotope; <0.0001 total curies)	80	1+65' S & 0+50' W
ANL-767-1H	P3			ANL767SR001/05/6280050 / Unknown number of cardboard boxes containing paper, plastic, wood etc. (Unknown isotope; 0.0001 total curies)	65	1+05 S & 0+60 W
ANL-767-1H	P3			ANL767SR004/03/62800 / Paper, rags, wood plastic etc. (unknown isotope < 0.0001Ci)	75	110' South, 30' West of NE #3 trench marker
ANL-767-1H?	P3			ANL767SR005/14/6280010 / Unknown number of containers containing metal pipe, metal boxes, wood, cardboard, plastic, etc. (Unknown isotope; 0.0001 total curies)	75	Stake 0+25
ANL-767-1H ?	P4			ANL767SR007/12/66150 / Type 304 stainless steel 6" pipe, Iron trays, various scrap tubing (unknown isotope, 500 mCi)	34	220' West of the NE Monument

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
ANL-767-1H ?	P4			ANL767SR010/13/66350 / IC furnace, crane clutch, fuel pin breaker, waste can lid (unknown isotope, 2 Ci)	8	250' West and 20' North of SE Monument
ANL-767-1H ?	P4			ANL767SR008/01/67800 / Contaminated Equipment ANL Nos. 89246, SN7137753A1, SN SW80677-1, ANL No 109270 (unknown isotope, <1 Ci)	250	50' West & 20' North of SE Monument
ANL-767-1H ?	P9			ANL767SR005/21/69820505 / Plastic, paper, wood, metal, rags, etc. (unknown isotope, 530 mCi)	204	70-80' East of NW Monument
ANL-767-1H ?	P9			ANL767SR005/26/69800505 / Rags, plastic, wood, metal etc (unknown isotope, 340 uCi)	204	30' West of NE Monument
ANL-767-1H ?	P9			ANL767SR006/05/6980072 / Plastic, paper, wood, metal, rags, etc. (unknown isotope, 203 mCi)	204	40' West of NE Monument
ANL-767-1H ?	P10			ANL767SR001/22/70800100 / Wood and metal (unknown isotope, 1 mCi)	30	375' West & 70' South of NE Monument
ANL-767-1H ?	P10			ANL767SR002/05/69800302 / Metal and wood (unknown isotope, 50 mCi)	250	175-185' East & 5' North of SW - 2 Monument
ANL-767-1H ?	P10			ANL767SR002/13/7080010 / Metal, wood, etc. (unknown isotope, <0.001 Ci)	70	370' West & 30' South of NE Monument
ANL-767-1H ?	P10			ANL767SR002/13/70820300 / Contaminated water mixed in vermiculite. Set solid in concrete (MFP, 3.6 Ci)	168	355' West & 15' South of NE Monument
ANL-767-1H ?	P10			ANL767SR003/17/69810300 / Broken vycor glass molds contained in 320 quart cans (255 g of U-235, .534 mCi)	24	90' North of SW -2 Monument
ANL-767-1H ?	P10			ANL767SR003/18/7081010 / Metal and wood. shipping tubes, 1 steel rod, cart, 1 box misc scrap metal, tubing (unknown isotope, <0.001 Ci)	250	360' West & 70' South of NE Monument
ANL-767-1H ?	P10			ANL767SR003/24/7080050 / Metal (unknown isotope, 1 mCi)	12	330' West & 35' South of NE Monument
ANL-767-1H ?	P10			ANL767SR004/03/70800200 / 1- oxide dumper, 1- injection casting bell jar, 4-decanter carts-B7,3,8 & A7, gauging station # 1 & caging station #2, 1-ingont (unknown isotope, 500 Ci)	324	350' West & 30-45' South of NE Monument

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
ANL-767-1H ?	P10			ANL767SR004/25/69800250 / Wood and metal (unknown isotope, 25 uCi)	102	95' East & 40' North of SW -2 Monument
ANL-767-1H ?	P10			ANL767SR004/30/7080000 / Vycor glass scrap with adhering U/Fs alloy contained in quart cans. FCF Cold line vycor glass scrap (FCF produced) (U235, 0.495 mCi)	9	330' West & 70' South of NE Monument
ANL-767-1H ?	P10			ANL767SR005/01/70800600 / Catalyzer material encased in concrete and wood - palladium (unknown isotope, 10 Ci)	48	330' West & 70' South of NE Monument
ANL-767-1H ?	P10			ANL767SR005/01/7081035025 /1- MR furnace, 1- IC furnace, 1- elect. lead, 2- elect. Bridge, 1- MR spill tray, 1- steak gam tongs, 1- band saw Ser. # 108203, misc. scrap (unknown isotope, 15 Ci)	8	320' West & 80' South of NE Monument
ANL-767-1H ?	P10			ANL767SR005/19/70800402 / Contaminated metal (unknown isotope, 10 mCi)	40	320-330' West & 60' South of NE Monument
ANL-767-1H ?	P10			ANL767SR005/20/7080011 / Metal bird cages used for storage of radioactive material (unknown isotope, <1 mCi)	300	320-330' West & 50-60' East of NE Monument
ANL-767-1H ?	P10			ANL767SR005/27/708003003 / Sludge from evaporated contaminated water. Sludge solidified in concrete and encased in steel drums, 6 drums total (unknown isotope, 10 Ci)	44	320' West & 75' South of NE Monument
ANL-767-1H ?	P10			ANL767SR006/10/7080035060 / Demolder & stand, shear station & heal dumper, spare demolder, Toledo seal, spare settling furnace, pallet stands, oxide furnace, inj, casting furnace (Bell Jar) (unknown isotope, 650 Ci)	610	325' West & 80' South of NE Monument
ANL-767-1H ?	P10			ANL767SR006/23/7081010 / Miscellaneous scrap piping and equipment components (unknown isotope, 1 mCi)	100	325' West & 45-50' South of NE Monument
ANL-767-1H ?	P10			ANL767SR007/22/69800505 / Wooden boxed and canvas (unknown isotope, <1 Ci)	90	270' East of SW-3 Monument
ANL-767-1H ?	P10			ANL767SR008/04/70800 / Stainless steel (unknown isotope, 0.25 Ci)	8	320' West & 75' South of NE Monument
ANL-767-1H ?	P10			ANL767SR009/28/7080010 / Wood and metal (unknown isotope, 1 mCi)	16	Unknown

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
ANL-767-1H ?	P10			ANL767SR010/01/69800150025 / Contaminated ducts wrapped in polyethylene (MFP, 200 mCi)	250	400' SW of Monument #2 15' South Bank
ANL-767-1H ?	P10			ANL767SR010/07/6981011 / 4 wooden boxes containing graphite and Zirconia crucibles from ECF Cold Line production of fuel box nos. 1,2,3,&4 (U-235, negl. Ci)	64	610-620' East & 5' South of NW Monument
ANL-767-1H ?	P10			ANL767SR010/09/6980020 / Metal with fixed contamination (unknown isotope, <1 mCi)	0.5 (0.5 = 1)	610' East & 5' South of NW Monument
ANL-767-1H ?	P10			ANL767SR010/30/6980035035 / Air cell table from A8 and Bond tester tables (unknown isotope, 110 mCi)	62	400' West & 10' North of SE Monument
ANL-767-1H ?	P10			ANL767SR011/11/69810 / Metal (unknown isotope, 1 mCi)	55	375' West & 5' North of SE Monument
ANL-767-1H ?	P10			ANL767SR011/13/69800101 / Cement blocks, steel, tubs, waste cans, wood (unknown isotope, <1 mCi)	500	475' West & 10' South of NE Monument
ANL-767-1H ?	P10			ANL767SR011/14/698000000 / One wooden box containing four one gallon cans with broken depleted U3O8 ceramic plates (U-235 (85 gms), 13 mCi)	3	425' West & 45' North of SE Monument
ANL-767-1H ?	P10			ANL767SR011/24/69810202 / Concrete blocks (unknown isotope, <1 Ci)	225	370' West & 10' North of SE Monument
ANL-767-1H ?	P10			ANL767SR011/25/69800100 / Scrap metal - FP contaminated (unknown isotope, 1 mCi)	250	395' West & 30' North of SE Monument
ANL-767-1H ?	P10			ANL767SR011/26/6980011 / Metal and wood scrap, wood boxes, metal tubing (unknown isotope, 1 mCi)	250	425' West & 70' South of NE Monument
ANL-767-1H ?	P10			ANL767SR012/11/69800101 / Metal and wood (unknown isotope, 2 mCi)	110	350' West of SE Monument
ANL-776				EBR-II-619 ZPPR Reactor Cell (ANL-776) No waste stream in the HDT could be identified with shipments with source ANL-776.		

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
ANL-776 ?	P9			ANL776SR005/28/6980000 / 17 cardboard cartons containing cardboard, plastic, rags, rubber, etc. (unknown isotope, 0.0001 Ci)	204	North end, 60' East
ANL-??				No waste stream in the HDT could be identified with these shipments.		
ANL-??	P10			ANLSR002/16/7189 / Two daw boxes, vacuum cleaner, and aluminum metal frames (MFP, 0.001 Ci)	40	300-315' West & 70-80' South of NE Monument
ANL-??	P10			ANLSR002/16/7192 / Wooden box containing radioactive waste and eight empty birdcage 12" * 12" * 60" long (MFP, 5.5 mCi)	10	310' West & 60-70' South of NE Monument
ARA-602-1H				ARA -602 Gas Dynamics Building This waste is from the SL-1 clean-up & consists of a 1000 gal tank, a demineralizer with resin, various bldg materials, pipes, soil, wire, concrete, insulation, etc. (1960 - 1965) (885.5957 m3) This waste stream is listed in the HDT.	31,274.5	
ARA-602-1H	P3			ARA602SR001/20/6180000 / Unknown number of Dempster Dumpsters containing paper, rags etc. (Unknown isotope; Unknown curie amount)	150	0+25
ARA-602-1H	P3			ARA602SR003/22/6180050 / Unknown number of Dempster Dumpsters containing paper, rags etc. (Unknown isotope; Unknown curie amount)	250	0+50 W & 0+80 S
ARA-602-1H	P3			ARA602SR004/28/6180051 / Unknown number of Dempster Dumpsters containing cardboard, paper, etc. 15 boxes (MFP; 0.001 total curies)	50	0+80 S & 0+65 W
ARA-602-2H				ARA -602 Gas Dynamics Building This waste stream consists of low levels of items listed as "scrap" and "rad waste NOS" which was taken from the ML-1 site during clean-up. There is a small amount of paper & wood. (1965 - 1966) (79.942 m3) This waste stream is listed in the HDT.	2823	
ARA-602-2H ?	P4			ARA602SR012/15/65830 / Scrap parts (unknown isotope, 0.05 Ci)	1200	280' West and 40' North of SE Monument
ARA-602-2H ?	P4			ARA602SR012/17/65800 / (unknown isotope, 0.001 Ci) RWMIS: Rad waste NOS	50	300' West and 50' North of SE Monument

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
ARA-602-2H ?	P4			ARA602SR012/17/65810 / (unknown isotope, 0.001 Ci) RWMIS: Rad waste NOS	50	310' West and 40' North of SE Monument
ARA-602-21H ?	P4			ARA602SR012/17/65820 / Scrap (unknown isotope, 0.001 Ci)	100	270' West and 30' North of SE Monument
ARA-602-2H ?	P4			ARA602SR008/10/66110 / Metal, paper, rags, & wood (unknown isotope, 0.001 Ci)	48	310' West of the SE Monument
ARA-602-3H				Hot cell waste consisting of some fuel residue. Metals (Cu, Cd, SS, & Al), soil, HEPA filters & clean-up supplies (i.e., rags, paper, mops, etc. (1963 - 1977) (84.8767 m3) This waste stream is listed in the HDT.	2997.4	
ARA-602-3H ?	P2	Asbestos?		ARA602SR004/16/6381020 / Cast iron ruptured water pump (unknown isotope, <1 uCi) (RWMIS content code Iron, asbestos)	1	1+00 East of West pit marker
ARA-602-3H ?	P4			ARA602SR008/09/66110 / Metal, wood, poly, paper, rags (unknown isotope, 0.5 Ci)	252	290' West of the SE Monument
ARA-606-1H				ARA-606 Admin/Technical Support Building. Contaminated soil & scrap building material. (1977 - 1977) (3.624 m3) This waste stream is listed in the HDT.	128	
ARA-608-1H				ARA-608 Reactor Building. Less than 0.1 Ci UO2. Tank, pump, valves, gauges, wire scrap metal, sludge NOS 1, concrete masonry & asphalt gravel. (1960 - 1982) (78.4 m3) This waste stream is listed in HDT.	2768.7	
ARA-608-1H	P6			ARA608SR006/14/67800 /Pipe, brackets, flanges, conduit, valves, tape and poly (unknown isotope, 0.001 Ci)	250	Unknown
ARA-608-1H ?	P10			ARA608SR004/01/7080030 / Metal (unknown isotope, <0.01 Ci)	50	360' West & 20' South of NE Monument
ARA-616-1H		??		ARA-616 ML-1 Change House. ML-1 & GCRE waste consisting of various scrap metals (SS, Ag, Al, Fe, K, & Pb), resin , burnables, sludge, & some boric acid crystals. (1961 - 1966) (376.73 m3) This waste stream is listed in HDT. The HDT indicated no hazardous constituents but the description above mentions lead.	13304	

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
ARA-616-1H ?	P2	Lead	??	ARA616SR010/17/6280030 / Aluminum, stainless steel lead and rubber (unknown isotope, 0.05 Ci)	64	240' East of West pit marker
ARA-616-1H ?	P2			ARA616SR005/24/63800100 / unknown, RWMIS: Rad waste NOS (unknown isotope, 18 mCi)	60	1+50 W.E.
ARA-616-1H ?	P2			ARA616SR010/08/628005000500 / s.s, Al (MFP, 8.30E-01 Ci)	432	300' East and 00' North of SW marker
ARA-616-1H ?	P2			ARA616SR006/17/63800/Unknown waste in cardboard boxes. RWMIS, Rad waste NOS, (unknown isotope .027 Ci)	84	0+85 from West, 0+40 from N side
ARA-616-1H	P3			ARA616SR001/26/6280051 / Unknown number of G I 30-gal cans containing ion exchange resin (Unknown isotope; 0.025 total curies)	24	1+25 S & 0+20 W
ARA-616-1H	P3			ARA616SR004/10/6280040065 / Unknown number of containers containing paper, stainless steel and trash (Unknown isotope; 0.83 total curies)	128	110' S & 45' W of NE #3 trench marker
ARA-616-1H	P3			ARA616SR011/07/6180010 / Unknown number of cardboard boxes containing paper, scrap, stainless steel, iron (Unknown isotope; 0.008 total curies)	24	0+80' S & 0+25' W
ARA-616-1H ?	P5			ARA616SR006/14/66110 / Metal, wood, poly, paper, concrete (MFP, 55 Ci)	6568	90' North of S/W Monument
ARA-616-1H ?	P5			ARA616SR006/23/66100 / Metal, cement, poly, rubber, wood (unknown isotope, 0.001 Ci)	15	110' North & 30' East of S/W Monument
ARA-626-1H				ARA-626 Hot Cell Building, Some fuel scraps, waste from disassembly of facilities, & Hot Cell waste. (1961 - 1983) (424.7 m3) This waste stream is listed in the HDT.	14998	
ARA-626-1H ?	P2			ARA626SR008/17/6280020025 / Rags, blotting paper, etc. (unknown isotope, 50 mCi)	12	500' West of NE #2 pit marker
ARA-626-1H	P3			ARA626SR004/05/62800602 / Unknown number of containers containing paper and trash (MFP; 1.00E-02 total curies)	24	125' S & 15' W of NE #3 trench marker
ARA-626-1H	P3			ARA626SR007/28/61800401 / Unknown number of cartons containing unknown items (Unknown isotope; 0.006 total curies)	24	0+85 S & 0+55 W

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
ARA-626-1H	P3			ARA626SR011/17/6180041 / Unknown number of carbon containers containing paper, junk, rags, and contaminated waste fission products (Unknown isotope; ~0.002 total curies)	36	0+80' S & 0+55' W
ARA-626-1H ?	P4			ARA626SR009/15/67800 / Metal (unknown isotope, 0.01 mCi)	250	10' West & 40' South of N/E Monument
ARA-626-1H?	P6			ARA626SR009/26/67800 / Concrete (MFP, 0.0001 Ci)	81	40 - 50' West & 0 -5' North of SE Monument
ARA-626-1H ?	P6			ARA626SR012/15/67800 / Wood (Co60, Cr134, <0.001 Ci)	75	40' West of the SE Monument
ARA-626-1H ?	P10			ARA626SR003/23/7082010 / Bird cages (unknown isotope, 0.003 Ci)	300	350-360' West & 5-10' South of NE Monument
ARA-626-1H ?	P10			ARA626SR003/23/7083061 / Induced radiation & contaminated metal components from reactor operation (ML-1) (unknown isotope, 0.03 Ci)	350	360' East & 30-50' South of NE Monument
ARA-626-1H ?	P10			ARA626SR003/26/7080050 / Contamination & induced radiation metal components form ML-1 Reactor (unknown isotope, 0.018 Ci)	450	365' West & 30' South of NE Monument
CFA-601-1H				CF 601 Warehouse, Evaporated salts, misc. waste solids, such as HEPA filters, paper wipes, graphite molds and crucibles, small tools & casting residues, sometimes contaminated with beryllium and beryllium oxide, were placed in plastic bags & sometimes added to the boxes or drums containing the salt waste. Also BXW. Before Sept. 1975, the salts were packaged in 55-gal drums. After this date 4x4x7 ft. wooden boxes were used. (1966 - 1974) (34.438 m3) This waste stream is listed in the HDT. The HDT indicated no hazardous constituents but the description above mentions Be and BeO.	1216.2	
CFA-601-1H ?	P10	Lead	??	CFA601SR011/05/70800 / Lead pipe heater, pumps, tension tester (MFP, 0.001 Ci)	10	300' West & 60' South of NE Monument
CFA-601-1H	P4	??		CFA601SR005/05/661 / Batteries, turbine, camera lens, paint cans (unknown isotope, 0.1 Ci)	100	315' West & 35' North of SE Monument

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
CFA-601-1H ?	P4			CFA601SR005/06/662 / Unreadable RWMIS: Equip., scrap metal (unknown isotope, 0.1 Ci)	12	315' West & 35' North of SE Monument
CFA-601-1H	P4			CFA601SR006/17/661 / Metal, rubber, wood (unknown isotope, 0.017 Ci)	656	305' West of the SE Monument
CFA-601-1H	P4			CFA601SR009/15/661 / Metal tailgate (unknown isotope, 0.001 Ci)	1	60'0 West of the SE Monument
CFA-601-1H ?	P4			CFA601SR010/24/661 / Unreadable, possibly something valve, RWMIS metal comp (unknown isotope, 0.001 Ci)	16	50' North and 20' East of S/W Monument
CFA-601-1H ?	P5			CFA601SR005/31/66110 / Metal, cast iron and/or steel (unknown isotope, 0.005 Ci)	46	90' North of S/W Monument
CFA-601-1H ?	P5			CFA601SR010/31/66120 / Metal beams and pipe (unknown isotope, 0.001 Ci)	30	65' East & 175' North of S/W Monument
CFA-601-1H ?	P10			CFA601SR001/08/68102 / Metal, rags (MFP .5 Ci)	243	250' East & 40' South of NW Monument
CFA-601-1H ?	P10			CFA601SR005/05/70800 / Steel table (unknown isotope, 0.002 Ci)	27	325' West & 50' South of NE Monument
CFA-633-1H		Lead (63-70) - Unk (PUL 810 kg) Beryllium (66-66) - 15.407 lb	Unk*(PUL 810 kg) 15.407 lb*	CF 633 Health Physics Instrument Lab. Basic trash - metal, wood, gravel, sand, etc. (1963 - 1974) (14.02 m3) This waste stream is listed in the HDT.	495	
CFA-633-1H ?	P4	Beryllium Oxide		CFA633SR006/23/662 / About 10 gals of water containing a small amount of beryllium oxide. Vermiculite has been added to absorb the water.	4	305' West of the SE Monument
CFA-633-1H ?	P4	Lead?		CFA633SR005/06/661 / Contaminated plastic glove box (MFP, 0.03 Ci) (There could be some beryllium or lead in this waste.)	72	315' West & 35' North of SE Monument
CFA-633-1H ?	P10			CFA633SR001/07/69800 / RWMIS: Rad waste NOS (MFP, .5 mCi)	240	250' East & 55' South of NW monument
CFA-633-1H ?	P10			CFA633SR007/02/69800 / Steel specimens and graphite in plastic bag (unknown isotope, 3 Ci)	0.5	435' East & 60' South of NW Monument

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
CFA-654-1H		Lead (65-65) - 800 lb Beryllium (70-70) - Unk (PUL <<E+03 kg) Zirconium (68-68) - 0.4 lb	800 lb* Unk*(PUL <<E+03 kg) 0.4 lb*	CF 654 Craft Shop (Old). Scrap metals, steel, beryllium, lead, zirconium, depleted uranium, sewer sludge, machine coolant, two radium sources, weeds and combustibles (paper, rags, etc.). (1962 - 1970) (50.37 m3) This waste stream is listed in HDT.	1778.8	
CFA-654-1H ?	P9	Lead	??	CFA654SR005/12/6980020 / Contaminated lead (MFP, 0.001 Ci)	30	105' South of NE Monument
CFA-654-1H	P4			CFA654SR011/23/66800 / Sewage sludge (unknown isotope, 1.5 Ci)	948	200-220' West & 20-30' North of SE Mon.
CFA-654-1H ?	P10			CFA654SR001/02/70800 / Tank (MFP, <0.001 Ci)	2	330' West & 10' North of SE Monument
CFA-654-1H ?	P10			CFA654SR008/12/69800 / Steel drums (MFP, <0.1 Ci)	240	RWMIS gives location as 305E 5N S2
CFA-654-1H ?	P10			CFA654SR012/02/69800 / Pellets and packaging for depleted U238 (unknown isotope, <1 mCi)	5	350' West & 10' North of SE Monument
CFA-665-1H				CFA 665 Equipment Repair Building. Two truck beds, three trailers, one forklift, one straddle carrier, some tires and wheels, an air compressor, and some wood. (1968 - 1976) (83.89 m3) This waste stream is listed in the HDT.	2962.5	
CFA-665-1H ?	P9			CFA665SR004/12/688002002 / Bed of pickup E71317 - contaminated (unknown isotope, 0.001 Ci)	90	60' North of SE Monument
CFA-665-1H ?	P10			CFA665SR004/10/70800 / Truckbed, tailgate loader, electric, Mdl. 300 One each truck bed removed from E-71963 (unknown isotope, 0.0002 Ci)	10	NRTS Burial grounds
CFA-669-1H				Combustibles (rags, paper, wood, cloth) and dirt. (1960 - 1982) (722.552 m3) This waste stream is listed in the HDT.	25516.7	
CFA-669-1H ?	P2			CFA669SR008/13/62800100 / Discard clothing, sweeping, plastic bags, etc. (unknown isotope, 2 mCi)	22	500' West and 60' South of the NE #2 pit marker
CFA-669-1H	P3			CFA669SR001/20/6180020 / Unknown number of boxes containers containing rags, paper, rubber, latex plastic, dirt (MFP, MAP; <0.0001 total curies)	48	30' S & 40' W of NE

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
CFA-669-1H	P3			CFA669SR001/24/62800101 / Unknown number of cardboard box containers containing waste clothing (Unknown isotope; 0.002 total curies)	24	1+25 S & 0+20 W
CFA-669-1H	P3			CFA669SR003/15/6180010 / Unknown number of box containers containing pipes, paper, rags, slightly contaminated. Box clean on outside.	12	0+50 S & 0+20 W
CFA-669-1H	P3			CFA669SR003/21/62800100 / 5 cardboard box containers containing waste clothing, plastic bags, sweepings, etc. (Unknown isotope; 0.005 total curies)	60	125' S & 15' W
CFA-669-1H	P3			CFA669SR003/31/6180010 / Unknown number of box containers containing rags, paper, cloth, dirt, rubber, latex-plastic (Unknown isotope; 0.003 total curies)	24	1+10 S & 0+15 W
CFA-669-1H	P3			CFA669SR004/07/6180015 / Unknown number of box containers containing rags, cloth, paper, rubber, plastic, dirt (Unknown isotope; 0.005 total curies)	36	0+90 S & 0+25 W
CFA-669-1H	P3			CFA669SR004/27/6180010 / Unknown number of box containers containing cloth, rags, paper, rubber, latex-plastic, dirt (Unknown isotope; 0.002 total curies)	48	1+05' S & 0+25' W
CFA-669-1H	P3			CFA669SR004/28/6180020 / Unknown number of containers containing rags, paper, bottles (Unknown isotope; 0.0003 total curies)	36	0+90 S & 0+50 W
CFA-669-1H	P3			CFA669SR006/02/6180010 / Unknown number of box containers containing rags, paper, cloth, rubber, plastic, dirt (MFP, MAP; 0.0001 total curies)	24	1+10 S & 0+25 W
CFA-669-1H	P3			CFA669SR007/18/6180010 / Unknown number of cardboard containers containing solid waste, dirt, paper, plastic bags, etc. (MFP, MAP; 0.0001 total curies)	24	0+60 W & 0+75 S
CFA-669-1H	P3			CFA669SR007/24/6180010 / Unknown number pf containers containing cotton clothes and sweepings (Unknown isotope; 0.001 total curie)	36	0+85 S & 0+50 W
CFA-669-1H	P3			CFA669SR007/31/6180030 / Unknown number of containers containing contaminated personal clothing confiscated at the SL-1 accident (Unknown isotope; ~10E-6 total curies)	12	1+00 S & 0+30 W
CFA-669-1H	P3			CFA669SR011/13/61800101 / Unknown number of cardboard containers containing waste clothing and latex (Unknown isotope; 0.001 total curie)	24	0+80' S & 0+55' W

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
CFA-669-1H ?	P6			CFA669SR009/27/67800 / Troy washing machine (unknown isotope, 0.1 Ci)	128	40' West of the SE Monument
CFA-669-1H ?	P9			CFA669SR005/27/69800201 / Cloth, paper, filters, floor sweep (unknown isotope, 0.001 Ci)	36	80' East of NW Monument
CFA-669-1H ?	P10			CFA669SR008/28/70800300 / Laundry sludge (unknown isotope, 1 Ci)	540	Unknown
CFA-674-1H				CF 674 Warehouse. Laboratory waste contaminated with P-32, U-235, & U-238. Excess property (furniture, machinery, valves, boxes, wire, noses, & filters) & combustible waste. (1961 - 1975) (26.19 m3) This waste stream is listed in the HDT.	924.9	
CFA-674-1H ?	P5			CFA674SR003/10/66151 / Wooden palette; small metal bolts (MAP, MFP, <0.001 Ci)	4	100' East & 130' North of S/W Monument
CFA-674-1H ?	P5			CFA674SR004/04/66110 / (unknown isotope, <0.0001 Ci) RWMIS: Metal drums, MAP, MFP 0.0001 Ci	8	100' East & 120' North of the S/W Monument
CFA-674-1H ?	P5			CFA674SR004/21/66101 / Wooden palette and metal valve (unknown isotope, 10 uCi)	1	110' N/E of the S/W Monument
CFA-683-1H				Contaminated crane, two pickups, tanker, trailer, traveler wheels, scrap metal and some wood. (1971 - 1973) (74.8 m3) This waste stream is listed in HDT.	2641.5	
CFA-683-1H ?	P10			CFA683SR005/21/71160 / 1-3" pump 1-4 " pump ? (MFP, 1.00E-03 Ci)	8	280' West & 80' South of NE Monument
CFA-687-1H		Lead (64-80) - 333,897.4 lb		CF 687 Old Lead Shop, Scrap metal and lead. (1964 - 1980) (22.74 m3) This waste stream is listed in the HDT.	803.1	
CFA-687-1H ?	P4	Lead	Lead	CFA687SR008/16/661 / Lead slag and sand (unknown isotope, <0.001 Ci)	9	300' West of the SE Monument
CFA-690-1H		Zirconium (69-69) - 2100 lb	2100 lb*	CF 690 Radiologics/Environ Lab. Combustibles, animal carcasses and feces, scrap metal, sources, sand & gravel. (1960 - 1981) (451.5 m3) This waste stream is listed in HDT.	15,944.6	

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
CFA-690-1H ?	P2	Mercury	??	CFA690SR010/11/6281000 / Mercury batteries	2	300' East of West pit marker
CFA-690-1H ?	P10	Lead	??	CFA690SR003/17/70800 / Steel box & frame with lead shielding (MFP, 0.001 Ci)	8	360' West & 20' South of NE Monument
CFA-690-1H ?	P4	Perchloric acid residue	??	CFA690SR008/22/67800/ Six each chemical hoods approx 7' h x 3' d x 5' l located in rooms 22 and 24 of CF646-- Perchloric residue, not suitable for surplus per J. White 8/21/67 (unknown isotope, 0.001 Ci)	630	15' -20' West of SE Monument
CFA-690-1H	P3			CFA690SR003/15/6181030 / 1-paper bag containers containing contaminated shoes (Unknown isotope; ~10E-9 total curies)	1	0+50 S & 0+20 W
CFA-690-1H ?	P3			CFA690SR005/02/61800402 / Unknown number of cardboard boxes containing misc. laboratory waste (Unknown isotope; <0.001 total curie)	12	1+05 S & 0+25 W
CFA-690-1H	P3			CFA690SR006/06/6180000 / Unknown number of cardboard containers containing paper and glassware (Unknown isotope; ~0.0001 total curie)	3	1+10 S & 0+25 W
CFA-690-1H	P3			CFA690SR006/29/6180071 / Unknown number of cardboard containers containing paper, plastic, dirt, animal/veg. matter (Unknown isotope; 0.0001 total curies)	12	1+50 S & 0+75 W
CFA-690-1H	P3			CFA690SR007/28/6180000 / Unknown number of cardboard boxes containing animal, blotting paper and glass (Unknown isotope; Unknown curie amount)	12	0+85 S & 0+50 W
CFA-690-1H	P3			CFA690SR008/01/6180010 / Unknown containers containing paper, Phosphorous 32 (Unknown isotope; 10E-8 total curies)	12	1+00 S & 0+30 W
CFA-690-1H	P3			CFA690SR003/29/6280050 / Unknown number of cardboard containers containing particulate contamination on gum paper collectors (Unknown isotope; <0.001 total curie)	1	125' S & 15' W of NE marker
CFA-690-1H ?	P4			CFA690SR005/04/663 / Contaminated lab waste, paper, filter (131, Pa233, <0.01 mCi)	12	315' West & 35' North of SE Monument
CFA-690-1H ?	P10			CFA690SR001/13/70800 / Laboratory waste from HSL (unknown isotope, <0.01 mCi)	12	330' West & 20' North of SE Monument

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
CFA-690-1H ?	P11			CFA690SR009/17/70800 / DOW Rocky Flats Waste (Waste also does not appear to be INEL waste.)	11	0-5' North & 223' East of S/W Monument
CPP-601-1H				CPP-601 Fuel Process Building. Leached Vycor glass (1966 -1970) (1.738 m3) This waste stream is listed in the HDT.	61.4	
CPP-601-2H		Asbestos (60-70) - 240 lb	240 lb*	CPP-601 Fuel Process Building. Insulation, pipe, wire, wood, plastic, rags and concrete. Primarily in the form of insulation covering pipe in the WCF oil fired burner which took the form of piping with the insulation resulting from breaching of pipe by NaK and resulting fires. (1960 - 1970) (0.914 m3) This waste stream is listed in the HDT. Insulation was mixed with other items of the shipment hence asbestos volume is less than shipment volume.	32.3	
CPP-601-2H ?	P5	Asbestos?	??	CPP601SR008/20/66110 / Metal waste, insulation, paper, wood (MFP, 100 mCi) This waste may contain asbestos.	120	190' North & 40' East of S/W Monument
CPP-601-2H ?	P5	Asbestos?	??	CPP601SR008/20/66210 / Metal, insulation, paper, and wood waste (MFP, 100 mCi) This waste may contain asbestos.	120	180' North & 40' East of S/W Monument
CPP-601-2H ?	P5	Asbestos?	??	CPP601SR008/20/66310 / Metal, insulation, paper, and wood waste (unknown isotope, 100 mCi) This waste may contain asbestos.	120	180' North & 40' East of S/W Monument
CPP-601-2H ?	P5	Asbestos?	??	CPP601SR008/23/66120 / sheet metal, pipe, etc. (unknown isotope, 1.1 mCi) This waste may contain asbestos.	108	80' East & 175' North of S/W Monument
CPP-601-2H ?	P9	Asbestos?	??	CPP601SR008/23/68800101 / Trash, concrete, pipes, insulation (unknown isotope, <0.1 Ci) This waste may contain asbestos.	300	175' South & 5-20' West of NE Monument
CPP-601-2H ?	P10	NaK		CPP601SR005/07/708003000100 / NaK tube bundle, Metal tube bundle WC-302 (MFP, 0.5 Ci)	80	320' West & 75' South of NE Monument
CPP-601-3H				CPP-601 Fuel Process Building. Dissolved fuel specimens. One shipment. Fuel specimens dissolved in HF-HNO ₃ , then reacted with plaster of Paris. (1969 -1969) (0.0568 m3) This waste stream is listed in the HDT.	2	

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
CPP-601-4H		Nitric Acid (54-70) - 47960 kg Alum. Nitrate Nonahydrate - 192400 kg Uranyl Nitrate - 224.1 kg* Sodium Nitrate - 2391 kg Hydrofluoric Acid - 7523 kg Mercury Nitrate Nonhydrate - 810.2 kg Sulfuric Acid - 108.3 kg Chromium - 19.68 kg Beryllium - 113.6 kg Copper Nitrate - 329.7 kg	47960 kg* 192400 kg* 224.1 kg* 2391 kg* 7523 kg* 810.2 kg* 108.3 kg* 19.68 kg* 113.6 kg* 329.7 kg*	CPP-601 Fuel Process Building. Acidic aqueous liquid. From CF674A pilot plant studies on CPP dissolution & extraction. Tons of lime were added in disposal pit to neutralize the acid. The acid was probably disposed in the acid pit and the containers disposed of in the trenches. (1954-1970) (173300 gal.) This waste stream is listed in the HDT.	23166.8	
CPP-601-5H		Methyl Isobutyl Ketone (54-70) - 8928 kg Ethyl Alcohol - 22.55 kg Tributyl Phosphate - 1002 kg Acetone - 22.55 kg Carbon Tetrachloride - 25.55 kg	8928 kg* 22.55 kg* 1002 kg* 22.55 kg* 25.55 kg*	CPP-601 Fuel Process Building - Organic solvents. Much of the waste came from CF674A, which was a pilot plant used to develop dissolution and extraction processes for CPP. The liquid was probably disposed in the acid, chem, or fluoride pits and the containers disposed in the trenches. The organics may have been burned. (1954 - 1970) (4763 gal.) This waste stream is listed in the HDT.	636.7	
CPP-601-5H	P6	Solvents?		CPP601SR009/18/67810 / Miscellaneous used oils, solvents, etc. 10-55 gallon drums are slightly surface contaminated 100-300 counts (unknown isotope, 0.001 Ci) This waste appears to contain solvents, perhaps all those noted for this waste stream.	74	30' North and 30' East of the SE Monument
CPP-601-6H				CPP-601 Fuel Process Building - Pipe, glass, gloves, cans, vessels, wire, valves, paper, metal, wood, clothing, filters, plastic bottles and rubber. This waste stream is a catch all for all the misc. type waste from all of CPP. It resulted from taking all the waste and subtracting out the other specified waste streams to get this remaining waste stream. (1960 - 1983) (21710 m ³) This waste stream is listed in the HDT. Note: all shipments to the RFP TRU pits from other CPP sources, CPP-602, CPP-603, CPP-630, CPP-640 were assigned to this catch all waste stream.	766,681	
CPP-601-6H	P4	Lead	??	CPP601SR012/15/66120 / Straw, lead and junk (unknown isotope, <0.01 mCi)	96	225' West and 30' North of SE Monument
CPP-601-6H ?	P5	Kerosene	??	CPP601SR008/30/66100 / Kerosene containing mixed fission products (MFP, <3 Ci)	73	10' East & 160' North of S/W Monument

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
CPP-601-6H ?	P5	Lead	??	CPP601SR011/22/66120 / Lead, concrete, and iron (unknown isotope, 0.18 Ci)	385	170' North & 30' West of S/W Monument
CPP-601-6H ?	P10	Lead	??	CPP601SR004/09/70800355 / Lead, wood, scrap material (MFP, 50 mCi)	100	355' West & 10' South of NE Monument
CPP-601-6H ?	P10	Lead	??	CPP601SR004/20/70800505 / Lead, unreadable, scrap metal, ? obtained from calciner cleanup (unknown isotope, 2.31 Ci)	37	335' West & 55' South of NE Monument
CPP-601-6H ?	P10	Gasoline	??	CPP601SR004/23/6980000 / Some gasoline left in tank. 250 gallon gasoline tank. Potential fire hazard if spilled enroute	33.4	375' East & 40' South of NW Monument
CPP-601-6H ?	P2			CPP601SR008/24/6280050 / (?) fission products, paper, glass, etc. (unknown isotope, .01Ci)	144	460' West and 65' South of NE #2 pit marker
CPP-601-6H ?	P2			CPP601SR004/25/6381010 / Wood (unknown isotope, <.001 uCi)	56	90' East of SW marker
CPP-601-6H ?	P2			CPP601SR008/23/60800100 / Lumber-contaminated with FP (unknown isotope, <1 Ci)	300	South side 200'
CPP-601-6H ?	P2			CPP601SR008/23/6081010 / Contaminated lumber (unknown isotope <1 Ci)	320	South side about 230 south side
CPP-601-6H ?	P3			CPP601SR001/20/6182000 / 66-cardboard boxes containing cardboard, concrete (MFP; <0.000001 total curies)	115	0+05 S & 0+05 W
CPP-601-6H ?	P3			CPP601SR001/31/61800101 / Unknown number of cardboard containers containing gross mixed fission products (Unknown isotope; <0.001 total curie)	300	0+45 W & 0+30 S
CPP-601-6H	P3			CPP601SR002/07/6180000 / Unknown number of cardboard box containing gross mixed fission products, rags, paper and other trash (MFP, 0.0001 total curies)	84	36' W & 40' S
CPP-601-6H	P3			CPP601SR003/03/61800120 / 13-dump boxes containing construction waste (Unknown isotope; <0.3 total curies)	156	90' S & 25' W
CPP-601-6H	P3			CPP601SR003/14/6180020 / 15-cardboard boxes containing gross mixed fission products, scrap paper, etc. (Unknown isotope; 0.01 total curies)	180	0+40 S & 0+05 W
CPP-601-6H	P3			CPP601SR003/24/6180050 / 9-cardboard boxes containing gross mixed fission products, rags, paper, and other trash. (Unknown isotope; <0.01 total curies)	108	0+35 W & 0+85 S

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
CPP-601-6H	P3			CPP601SR004/04/61800101 / Unknown number of cardboard containers containing gross mixed fission products. Cab reading <1 mr/hr. (Unknown isotope; 5.5E-2 total curies)	132	1+10 S & 0+15 W
CPP-601-6H ?	P3			CPP601SR004/07/61800152 / Unknown number of containers containing hot waste (Unknown isotope; <0.001 total curies)	84	0+60 S & 0+20 W
CPP-601-6H	P3			CPP601SR004/18/61800505 / 11-cardboard boxes containing gross mixed fission products due to normal operation (Unknown isotope; 0.6 total curies)	132	0+90 S & 0+10 W
CPP-601-6H ?	P3			CPP601SR004/21/6180010 / Unknown number of containers containing cement in cardboard boxes (Unknown isotope; <0.0001 total curies)	72	1+05 S & 0+40 W
CPP-601-6H ?	P3			CPP601SR004/21/6181010 / Unknown number of cardboard containers containing contaminated concrete (Unknown isotope; <0.001 total curies)	150	1+10 S & 0+35 W
CPP-601-6H ?	P3			CPP601SR004/28/61800100 / 9-cardboard boxes containing rags, paper, wood, and junk in general. Cab reading <1 mr/hr. (Unknown isotope; <1 total curies)	108	0+75 W & 0+75 S
CPP-601-6H ?	P3			CPP601SR004/28/6181010 / 12-cardboard boxes containing junk, etc. Cab reading <1 mr/hr. (Unknown isotope; <1 total curies)	144	0+75 W & 0+75 S
CPP-601-6H ?	P3			CPP601SR005/08/6180060 / Unknown number of dumpsters containing rags, paper, etc. (Unknown isotope; 0.050 total curies)	168	1+15 S & 0+50 W
CPP-601-6H ?	P3			CPP601SR005/08/6181080 / Unknown number of dumpsters containing rags, paper, dirt, etc. (Unknown isotope; 0.096 total curies)	180	1+05 S & 0+20 W
CPP-601-6H ?	P3			CPP601SR005/23/6180020 / Unknown number of cardboard box containers containing concrete and iron (Unknown isotope; <0.001 total curies)	200	1+00 S & 0+70 W
CPP-601-6H	P3			CPP601SR005/26/6180010 / 15-cardboard boxes containers containing misc. waste. Cab reading <7.5 mr/hr. (Unknown isotope; <1 total curies)	180	Unknown
CPP-601-6H ?	P3			CPP601SR006/27/6181050 / Unknown number of cardboard containers containing paper, wood, misc. junk (Unknown isotope; 0.0275 total curies)	156	25' W & 140' S

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
CPP-601-6H ?	P3			CPP601SR006/27/6180020 / Unknown number of cardboard containers containing dirt, rags, etc. (Unknown isotope; 0.003 total curies)	100	25' W & 140' S
CPP-601-6H ?	P3			CPP601SR007/14/6180000 / 14-cardboard boxes and 1 barrel containing gross mixed fission products, paper, glass and other trash (Unknown isotope; 0.00001 total curies)	180	Unknown
CPP-601-6H	P3			CPP601SR007/25/61800122 / Unknown number of cardboard containers containing rags, metal, cardboard, paper, etc. (Unknown isotope; 0.000006 total curies)	192	0+80 S & 0+30 W
CPP-601-6H ?	P3			CPP601SR008/01/61800101 / Unknown number of cardboard containers containing gross waste fission (Unknown isotope; <0.001 total curies)	168	1+00 S & 0+30 W
CPP-601-6H ?	P3			CPP601SR008/18/6180010 / Unknown number of cardboard containers containing rags, cardboard, etc. (Unknown isotope; <0.002 total curies)	144	1+20 S & 0+20 W
CPP-601-6H	P3			CPP601SR008/29/6180001 / Unknown number of cardboard containers containing gross fission products (Unknown isotope; 2.7E-2 total curies)	156	1+20 S & 0+15 W
CPP-601-6H	P3			CPP601SR009/15/6180000 / 13-cardboard boxes containing residual mixed fission products due to normal plant operation (Unknown isotope; <0.001 total curies)	156	1+30 S & 0+20 W
CPP-601-6H ?	P3			CPP601SR010/03/6180050 / Unknown number of Dempster Dumpsters containing mixed fission products (Unknown isotope; 0.010 total curies)	120	1+40' S & 0+50' W
CPP-601-6H	P3			CPP601SR010/03/6181050 / 14-cardboard boxes containing mixed fission products-rags, mops, paper (Unknown isotope; <1 total curies)	168	1+50' S & 0+50' W
CPP-601-6H ?	P3			CPP601SR010/13/6180010 / 10-cardboard boxes containing rags, wood, and other misc. waste (Unknown isotope; <1 total curies)	120	Unknown
CPP-601-6H	P3			CPP601SR011/03/6180010 / 17-cardboard boxes containing gross mixed fission products, rags, paper, glass, etc. (Unknown isotope; 0.055 total curies)	204	0+70' S & 0+25' W
CPP-601-6H	P3			CPP601SR011/07/6180010 / 15-cardboard boxes containing gross mixed fission products, rags, paper, glass, etc. (Unknown isotope; 0.027 total curies)	180	0+85' S & 0+30' W

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
CPP-601-6H	P3			CPP630SR011/09/6180010 / Unknown number of Dempster Dumpsters containing scrap metal, wire (Unknown isotope; <0.001 total curie)	150	1+05' S & 0+45' W
CPP-601-6H ?	P3			CPP601SR011/10/6180010 / Unknown number of boxes containing cardboard, cement, paper, etc. Contamination if boxes break. (MFP; 0.0001 total curies)	135	0+90' S & 0+45' W
CPP-601-6H	P3			CPP601SR011/17/6181082 / 11-cardboard boxes containing gross mixed fission products, glass, wood, paper, rags, etc. (Unknown isotope; 0.033 total curies)	216	0+70' S & 0+55' W
CPP-601-6H ?	P3			CPP601SR011/21/6180051 / 11-cardboard boxes containing gross mixed fission products. Cab reading <7.5 mr/hr. (Unknown isotope; 0.000027 total curies)	216	Unknown
CPP-601-6H	P3			CPP601SR012/01/6180050 / 14-cardboard boxes containing gross mixed fission products, glass, paper, etc. (Unknown isotope; 0.027 total curies)	168	1+20' S & 0+25' W
CPP-601-6H	P3			CPP601SR012/01/6181050 / 8-cardboard lumber boxes containing gross mixed fission products, boards, paper, glass, etc. (Unknown isotope; 0.027 total curies)	96	1+20' S & 0+15' W
CPP-601-6H ?	P3			CPP601SR012/15/6180050 / Unknown number of Dumpsters containing rags, paper, dirt, etc. (Unknown isotope; 0.001 total curies)	216	1+10' S & 0+15' W
CPP-601-6H	P3			CPP601SR002/02/62800101 / Unknown number of Dempster Dumpsters containing scrap metal (Unknown isotope; 5.4x10E-2 total curies)	72	1+30 S & 0+40 W
CPP-601-6H	P3			CPP601SR004/03/62800100 / 18-cardboard boxes containing rags, wood, paper, etc. (MFP - 1.00E+00; <1 total curies)	216	80' S of NE #3 trench marker
CPP-601-6H	P3			CPP601SR004/06/6280050 / Unknown number of metal containers containing scrap metal contaminated to some degree (Unknown isotope; 0.275 total curies)	216	110' S & 20' W of NE #3 trench marker
CPP-601-6H	P4			CPP601SR010/10/63800 / Stainless Steel vessels and pump parts, PA-238 and 239 remote heads, tube bundles from G-110 & H-110 and L-106, Plus two Laboratory Hoods (unknown isotope, 5 mCi)	122	125' from West end, 100' from North side
CPP-601-6H	P4			CPP601SR001/29/64820 / Contaminated scrap lumber, alpha contamination, spots read up to 1 R/hr B-1 (unknown isotope, 0.1 Ci)	70	40' from West end, 60' from North side
CPP-601-6H	P4			CPP601SR004/26/66230 / Scrap metal, some wood and paper (MFP, 4 mCi)	108	320' West of SE Monument

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
CPP-601-6H	P4			CPP601SR005/06/66350 / 100' pipe, 5 mr/hr; 1 plywood box, bkgd; 1 whasisit bkgd; 1 10' ladder, <1 mr/hr (MFP, <1mCi)	80	315' West & 35 North of SE Monument
CPP-601-6H ?	P4			CPP601SR005/20/66110 / rags, paper, weeds, etc (MFP, <1 mCi)	220	210' West of the SE Monument
CPP-601-6H	P4			CPP601SR005/24/66251 / valves, etc (MFP, 3 mCi)	100	320' West of the SE Monument
CPP-601-6H	P4			CPP601SR006/03/66450 / Scrap wood and metal (unknown isotope, 0.25 Ci)	110	85' North and 65' East of the SW Monument
CPP-601-6H	P4			CPP601SR006/15/66100 / Metal, wood, paper (MFP, <0.1 Ci)	100	300' West of the SE Monument
CPP-601-6H	P4			CPP601SR006/15/66200 / Metal, wood, paper (MFP, <0.001 Ci)	100	300' West of the SE Monument
CPP-601-6H	P4			CPP601SR006/16/66151 / Wood, metal, rags, etc (MFP, 0.001 Ci)	100	300' West of the SE Monument
CPP-601-6H ?	P4			CPP601SR007/27/66210 / Scrap aluminum (unknown isotope, 0.001 Ci)	54	265' West of the SE Monument
CPP-601-6H ?	P4			CPP601SR007/28/66210 / Scrap aluminum (unknown isotope, 0.001 Ci)	54	265' West of the SE Monument
CPP-601-6H ?	P4			CPP601SR008/09/66151 / Dirt (unknown isotope, 0.2 Ci)	84	325' West of the SE Monument
CPP-601-6H ?	P4			CPP601SR008/15/66110 / Contaminated dirt wrapped in plastic bags (unknown isotope, 0.007 Ci)	48	310' West of the SE Monument
CPP-601-6H ?	P4			CPP601SR008/15/66225 / Contaminated concrete from the access corridor (unknown isotope, 0.05 Ci)	72	310' West of the SE Monument
CPP-601-6H	P4			CPP601SR008/18/66150 / Sand, gravel, wood, paper, metal (MFP, 0.001 Ci)	81	275' West of the SE Monument
CPP-601-6H	P4			CPP601SR008/25/66130 / Scrap metal and pipe (MFP, 1.1 mCi)	108	180' West of the SE Monument
CPP-601-6H	P4			CPP601SR008/25/664 / wood (MFP, 0.01 mCi)	108	195' West of the SE Monument

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
CPP-601-6H	P4			CPP601SR010/07/66120 / Scrap lumber, wooden boxes, packing material (unknown isotope, 0.001 Ci)	100	275' West and 15' North of SE Monument
CPP-601-6H	P4			CPP601SR011/07/66330 / Scrap metal (unknown isotope, 0.002 Ci)	192	265' West and 30' North of SE Monument
CPP-601-6H	P4			CPP601SR012/16/66100 / Lumber and junk (unknown isotope, <0.01 mCi)	96	240' West and 30' North of SE Monument
CPP-601-6H	P4			CPP601SR012/16/66220 / Lumber (unknown isotope, <0.01 mCi)	48	250' West and 30' North of SE Monument
CPP-601-6H	P4			CPP601SR012/19/66120 / Lumber (unknown isotope, <0.01 mCi)	96	260' West and 30' North of SE Monument
CPP-601-6H	P4			CPP601SR012/19/66210 / Lumber (unknown isotope, <0.01 mCi)	120	280' West and 40' North of SE Monument
CPP-601-6H	P4			CPP601SR012/20/66110 / Lumber (unknown isotope, <0.01 mCi)	140	250' West and 35' North of SE Monument
CPP-601-6H	P4			CPP601SR012/20/66210 / Lumber (unknown isotope, <0.01 mCi)	150	225' West and 30' North of SE Monument
CPP-601-6H	P4			CPP601SR012/21/66110 / Metal, paper, hoses (MFP, 2.2 mCi)	108	250' West and 35' North of SE Monument
CPP-601-6H	P4			CPP601SR012/23/66120 / Lumber (unknown isotope, <0.01 mCi)	350	220-250' West and 30' N of SE Monument
CPP-601-6H	P4			CPP601SR012/27/66110 / Lumber (unknown isotope, <0.01 mCi)	96	225-240' West & 35' North of SE Monument
CPP-601-6H	P4			CPP601SR012/28/66110 / Lumber, Straw, misc (unknown isotope, <0.01 mCi)	180	220-230' West & 30' North of SE Monument

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
CPP-601-6H	P4			CPP601SR012/30/66110 / Wood, scrap metal, steel pipe, general construction waste (MFP, <0.1Ci)	144	220'-240' West & 40' North of SE Monument
CPP-601-6H	P4			CPP601SR001/03/67800 / Lumber, pipe and miscellaneous (unknown isotope, <0.01 mCi)	80	210' West & 30' North of SE Monument
CPP-601-6H	P4			CPP601SR001/05/67800 / Canvas, boxes, lumber, general construction waste (MFP, 1.2 mCi)	42	200-210' West & 30' North of SE Mon.
CPP-601-6H	P4			CPP601SR001/09/67800 / Rags, wood scraps, general construction waste (MFP, <0.1 Ci)	40	175' West & 35' North of SE Monument
CPP-601-6H	P4			CPP601SR001/23/67800 / Wood, pipe, rags, metal (MFP, 0.005 Ci)	80	210' West & 45' North of SE Monument
CPP-601-6H ?	P4			CPP630SR002/03/67800 / Metal (unknown isotope, 0.5 mCi)	60	220' West & 45' North of SE Monument
CPP-601-6H	P4			CPP601SR005/11/67800 / Pipe and pump heads from F Cell (MFP, 3 Ci)	60	50' West & 10' North of SE Monument
CPP-601-6H ?	P5			CPP601SR005/06/66250 / Straw, weeds, plastic, etc. (MFP, 0.25 mCi)	460	40' East & 120' North of S/W Monument
CPP-601-6H ?	P5			CPP601SR005/19/66121 / Weeds and paper waste mixed fission products (MFP, 0.002 Ci)	200	30' East & 115' North of the S/W Monument
CPP-601-6H ?	P5			CPP601SR006/02/66103/ Scrap metal and lumber (unknown isotope, 0.015 Ci)	130	80' North & 65' East of the S/W Monument
CPP-601-6H ?	P5			CPP601SR006/03/66210 / Scrap metal (unknown isotope, 0.001 Ci)	140	85' North & 70' East of S/W Monument
CPP-601-6H ?	P5			CPP601SR006/06/66131 / Scrap metal, wood rubber with mixed fission products (MFP, 0.02 Ci)	240	80' North & 50' East of S/W Monument

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
CPP-601-6H ?	P5			CPP601SR006/06/66230 / Mixed fission products and scrap wood and steel (MFP, 0.01 Ci)	240	80' North & 40' East of S/W Monument
CPP-601-6H ?	P5			CPP601SR006/07/66151 / Metal pipe, etc. (unknown isotope, 0.0003 Ci)	350	90' North & 80' East of S/W Monument
CPP-601-6H ?	P5			CPP601SR006/17/66101 / Metal, wood, paper (unknown isotope, 0.001 Ci)	108	N/E Monument
CPP-601-6H ?	P5			CPP601SR006/17/66210 / Metal, wood, paper (unknown isotope, 0.001 Ci)	81	105' South of N/W Monument
CPP-601-6H ?	P5			CPP601SR006/23/66150 / 4 BBLS (unknown isotope, 0.01 Ci)	28	115' North of S/W Monument
CPP-601-6H ?	P5			CPP601SR007/11/66320 / Metal (MFP, 0.04 Ci)	72	140' South of the N/E Monument
CPP-601-6H ?	P5			CPP601SR008/12/66521 / Gravel (MFP, 0.03 Ci)	40	180' South of the N/E Monument
CPP-601-6H ?	P5			CPP601SR008/19/66110 / Scrap wood material (MFP, 0.001 Ci)	252	90' East & 200' North of S/E Monument
CPP-601-6H ?	P5			CPP601SR009/14/66120 / Clay tile, ss pipe, sheet metal & scrap metal (MFP, <1 mCi)	208	150' South of N/W Monument
CPP-601-6H ?	P5			CPP601SR010/08/65800 / Slug scanners (unknown isotope, 1 mCi)	24	30' East & 10' North of the S/W Monument
CPP-601-6H ?	P5			CPP601SR010/27/66210 / Scrap metal (MFP, <0.1 mCi)	84	40' East & 180' North of S/W Monument
CPP-601-6H ?	P5			CPP601SR011/08/66130 / Contaminated 55 gal oil barrels (empty) (unknown isotope, 0.002 Ci)	378	50-70' East & 180-195' North of S/W Monument
CPP-601-6H ?	P5			CPP601SR011/21/66200 / Dirt from sewage drying beds (unknown isotope, <0.5 mCi)	128	170' North & 60' East of S/W Monument
CPP-601-6H ?	P5			CPP601SR011/21/66300 / Dirt from sewage drying beds (unknown isotope, <0.5 mCi)	128	170' North & 10' East of S/W Monument

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
CPP-601-6H ?	P5			CPP601SR011/22/66251 / Concrete blocks (unknown isotope, <0.001 Ci)	100	170' North & 50-60' East of the S/W Monument
CPP-601-6H ?	P5			CPP601SR011/23/66210 / Concrete and straw (unknown isotope, <0.1 Ci)	385	190' North & 60-70' East of S/W Monument
CPP-601-6H ?	P5			CPP601SR011/23/66310 / Concrete and straw (unknown isotope, <0.1 mCi)	285	190' North & 70-80' East of S/W Monument
CPP-601-6H ?	P5			CPP601SR011/29/66151 / Lumber (unknown isotope, <0.1 mCi)	95	160' North & 25' West of S/W Monument
CPP-601-6H ?	P5			CPP601SR012/12/66110 / Metal pipe (unknown isotope, <0.01 mCi)	96	160' North & 75' East of S/W Monument
CPP-601-6H ?	P5			CPP601SR012/13/66110 / Metal pipe (unknown isotope, <0.01 mCi)	48	160' North & 65' East of S/W Monument
CPP-601-6H	P6			CPP601SR007/27/67820 / Metal (MFP, 0.4 Ci)	112	150' West of the SE Monument
CPP-601-6H	P6			CPP601SR009/25/67800 / Rusty pipes, metal waste (MFP, <1 mCi)	81	50 - 60' West & 0-5' North of SE Monument
CPP-601-6H ?	P6			CPP601SR007/05/68800 / Weeds, paper, and plastic (unknown isotope, 0.1 Ci)	128	40' West & 40' North of the SE Monument
CPP-601-6H ?	P6			CPP601SR007/29/68810 / Wood (MFP, 0.001 Ci)	240	20' West of SE Monument
CPP-601-6H ?	P6			CPP630SR005/24/68800 / Metal scraps, paper (MFP, 1 mCi)	128	50' West & 20' North of the SE Monument
CPP-601-6H ?	P6			CPP630SR007/20/67800 / Metal, paper, rags (unknown isotope, 1 mCi)	128	160' West of the SE Monument
CPP-601-6H ?	P6			CPP630SR008/15/67800 / Metal, poly, paper (unknown isotope, 55 mCi)	40	100' West of SE Monument
CPP-601-6H ?	P6			CPP630SR009/01/67800 / Pipes and scrap metal (MFP, <0.1 Ci)	54	60' West of the SE Monument

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
CPP-601-6H	P6			CPP601SR010/20/67800 / Surplus stainless steel vessel, 5ft X 11in. approximate 10 gals capacity (unknown isotope, <1 mCi)	1	30' North and 15' East of the SE Monument
CPP-601-6H ?	P9			CPP601SR004/10/6880020 / Metal waste (MFP, <1 mCi)	72	90 - 95 South & 10 East of NW Monument
CPP-601-6H ?	P9			CPP601SR005/01/6880010 / Metal scraps (unknown isotope, 0.005 Ci)	128	150' North & 15' East of SW Monument
CPP-601-6H ?	P9			CPP601SR007/08/6880050 / Contaminated metal scraps (unknown isotope, 0.001 mCi)	96	60' South & 10' East of NW Monument
CPP-601-6H ?	P9			CPP601SR009/03/6880050 / Scrap paper, plastic, rags, metal (unknown isotope, 0.01 Ci)	128	175' South of NE Monument
CPP-601-6H ?	P9			CPP601SR009/30/68820505 / Contaminated dirt (unknown isotope, 0.1 Ci)	36	155' South of NE Monument
CPP-601-6H ?	P9			CPP601SR010/01/68800102 / Contaminated dirt (MFP, 5 mCi)	220	155' South of NE Monument
CPP-601-6H ?	P9			CPP601SR010/01/68810102 / Contaminated dirt (MFP, 5.5 mCi)	270	140' South of NE Monument
CPP-601-6H ?	P9			CPP601SR010/03/6880030 / Contaminated metal, scrap, etc. (unknown isotope, 0.001 Ci)	36	130' South of NE Monument
CPP-601-6H ?	P9			CPP601SR010/11/6880020 / Metal duct work (U238, <0.1 mCi)	250	10-20' South & 0-10' East of NW Monument
CPP-601-6H ?	P9			CPP601SR005/29/6980030040 / Rags, sweeping, blotting paper, empty sample bottles, etc. from normal plant operation (unknown isotope, 0.687 Ci)	204	Unknown
CPP-601-6H ?	P10			CPP601SR012/13/68800100 / Scrap metal (MFP, <0.1 Ci)	10	225' East & 40' South of NW Monument
CPP-601-6H	P10			CPP601SR012/17/6880010 / Storage tank (unknown isotope, <0.01 Ci)	125	260' East & 30' South of NW Monument
CPP-601-6H	P10			CPP601SR012/17/68810 / Wood and metal scrap (MFP, <0.1)	8	240' East & 45' South of NW Monument

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
CPP-601-6H ?	P10			CPP601SR002/20/69800202 / Scrap Wood used in cell modification (unknown isotope, (0.6 mCi)	100	265' East & 60' South of NW Monument
CPP-601-6H ?	P10			CPP601SR002/20/6981020 / Reliatron tubes, S/S tube, 1/4" dia. x 41" long, 3 each (unknown isotope, < 8*10-6)	2	225' East & 25' South of NW Monument
CPP-601-6H ?	P10			CPP601SR002/28/6980010015 / Steel sheeting (unknown isotope, 2 Ci)	100	325' East & 100' South of NW Monument
CPP-601-6H ?	P10			CPP601SR003/27/6980020025/ Scrap paper, plastic, rags, etc. (unknown isotope, 0.112 Ci) (RWMIS has 0.412 Ci)	192	300' East & 10' South of NW Monument
CPP-601-6H ?	P10			CPP601SR003/28/6980065002000 / 4 Barrel s filled with diatom. earth (unknown isotope, 36 Ci)	28	240' East & 20' South of NW Monument
CPP-601-6H ?	P10			CPP601SR005/21/6980070 / Concrete block (MFP, <1 mCi)	32	170' East & 10' North of SW -2 Monument
CPP-601-6H ?	P10			CPP601SR008/05/6980050 / Metal scrap (unknown isotope, <0.1 mCi)	128	250' East & 45' North of SW-2 Monument
CPP-601-6H ?	P10			CPP601SR009/04/698002000500 / 4 barrels containing basin earth filters (unknown isotope, 2 Ci)	22	350-375' SE Monument #2 100-120 S bank
CPP-601-6H ?	P10			CPP601SR012/01/6980030 / Wire, metal scrap (unknown isotope, <0.001 Ci)	24	350' West & 10' North of SE Monument
CPP-601-6H ?	P10			CPP601SR012/11/6980020 / Door slats (unknown isotope, <0.01 Ci)	56	350' West
CPP-601-6H ?	P10			CPP601SR001/09/70800101 / Metal scrap (unknown isotope, 0.001 Ci)	72	400' West & 50' South of NE Monument
CPP-601-6H ?	P10			CPP601SR001/12/70800100040 / Metal waste and cloth tarps (unknown isotope, 0.21 Ci)	72	375' West & 40' South of NE Monument
CPP-601-6H ?	P10			CPP601SR001/26/70800 / Wood and metal scrap (MFP, <0.01)	60	400' West & 20' South of NE Monument

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
CPP-601-6H ?	P10			CPP601SR003/03/708002000100 / Pipe, cement pipe, valves, etc (unknown isotope, 0.2 Ci)	64	370' West & 40' South of NE Monument
CPP-601-6H ?	P10			CPP601SR003/05/70800102 / Scrap metal, concrete (MFP, 2.5 mCi)	300	310' West & 40' South of NE Monument
CPP-601-6H ?	P10			CPP601SR004/13/70800 / Contaminated lumber (MFP, 70 mCi)	80	335' West & 30' South of NE Monument
CPP-601-6H ?	P10			CPP601SR004/14/70800305 / Scrap lumber, iron, etc. form construction project (unknown isotope, 80 mCi)	80	330' West & 20' South of NE Monument
CPP-601-6H ?	P10			CPP630SR004/14/70810401 / Steel (unknown isotope, 0.02 Ci)	80	325' West of NE Monument
CPP-601-6H ?	P10			CPP601SR004/15/70800252 / Metal scraps (MFP, 0.14 Ci)	80	330-340' West @ 90 S
CPP-601-6H ?	P10			CPP601SR004/17/70800205 / Waste lumber, metal, valves (MFP, 35 mCi)	200	335' West & 50' South of NE Monument
CPP-601-6H ?	P10			CPP601SR005/01/7080020010 / Buckets- stainless pipe (unknown isotope, 1 Ci)	100	325' West & 60' South of NE Monument
CPP-601-6H ?	P10			CPP601SR005/01/70810201 / Scrap metal (MFP, 0.5 Ci)	384	320-330' West & 70' South of NE Monument
CPP-601-6H ?	P10			CPP601SR005/04/708001003 / Material from bone yard, pipe, metal (MFP, 0.5 Ci)	150	330' West & 70' South of NE Monument
CPP-601-6H ?	P10			CPP601SR005/08/7080015050 / Metal, poly, pipe (MFP, 50 mCi)	160	325' West & 50' South of NE Monument
CPP-601-6H ?	P10			CPP601SR008/17/70810200 / Contaminated dirt (unknown isotope, 10 mCi)	54	Unknown
CPP-601-6H ?	P10			CPP601SR008/18/70800501 / Contaminated dirt (MFP, 50 mCi)	60	Unknown
CPP-601-6H ?	P10			CPP601SR008/18/708103020 / Contaminated dirt (MFP, 20 mCi)	60	Unknown
CPP-601-6H ?	P10			CPP601SR008/19/70800502 / Contaminated soil and gravel (unknown isotope, 10 mCi)	150	Unknown

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
CPP-601-6H ?	P10			CPP601SR008/31/7080030 / Metal scraps, shavings, etc (unknown isotope, 0.001 Ci)	54	330-335' West & 0-10' South of NE Monument
CPP-601-6H ?	P10			CPP601SR010/22/7080050 / Concrete scrap (MFP, 0.001 Ci)	50	315-330' West & 30-40' South of NE Monument
CPP-601-6H ?	P10			CPP601SR011/24/70800100 / Wood and metal scrap (MFP, 5.5 mCi)	50	300' West & 65' South of NE Monument
CPP-601-6H ?	P10			CPP601SR012/17/70800407 / Waste fuel cans and used pieces of yokes from CPP 603 basins (MFP, 0.192 mCi)	270	280-300' West & 60-80' South of NE Monument
CPP-601-6H ?	P10			CPP601SR012/17/708108010 / Used pieces of yokes from CPP basins (MFP, 0.385 mCi)	270	300-315' West & 60-80' South of NE Monument
CPP-601-6H ?	P10			CPP601SR012/17/70820407 / Waste fuel cans and used pieces of yokes from CPP basins (MFP, 0.192 mCi)	270	300-310' West & 60-80' South of NE Monument
CPP-601-6H ?	P10			CPP601SR012/18/70800805 / Used scrapped yoke components (MFP, 0.275 mCi)	270	285-300' West & 60-80' South of NE Monument
CPP-601-6H ?	P10			CPP601SR012/18/7081050/ Contaminated metal duct (MFP, 1 mCi)	480	285-300' West & 60-80' South of NE Monument
CPP-601-6H ?	P10			CPP601SR012/21/70800 / Duct work (unknown isotope, 0.001 Ci)	480	275-300' West & 60-80' South of NE Monument
CPP-601-6H ?	P10			CPP601SR005/06/71800 / Duct misc. trash (MFP, 7.50E-02 Ci)	160	270' West & 60' South of NE Monument
CPP-601-6H ?	P10			CPP601SR005/07/71800 / Paper, rags, empty bottles (MFP, 1.00E-03 Ci)	204	260' West & 40' South of NE Monument

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
CPP-601-6H ?	P10			CPP601SR005/07/71801 / Hand and foot counter (MFP, 1.00E-04 Ci)	25	260' West & 10' South of NE Monument
CPP-601-6H ?	P10			CPP601SR005/07/71802 / Paper, rags, empty bottles (MFP, 1.00E-03 Ci)	204	260' West & 60' South of NE Monument
CPP-601-6H ?	P10			CPP603SR006/19/6980030001000 / 603 basin filter barrels and hot waste boxes (unknown isotope, 8.25 Ci)	96	135' East & 30' North of SW - 2 Monument
CPP-601-6H ?	P10			CPP603SR005/03/71800 / Metal waste (MFP, 1.51E-01 Ci)	324	275' West & 60' South of NE Monument
CPP-601-6H ?	P10			CPP603SR005/04/71800 / Metal waste (MFP, 1.30E-02 Ci)	135	275 West 40' South of NE Monument
CPP-601-6H ?	P10			CPP603SR005/04/71805 / Metal waste (MFP, 2.20E-02 Ci)	162	270' West & 60' South of NE Monument
CPP-601-6H ?	P10			CPP603SR005/06/71800 / Metal waste (MFP, 7.70E-02 Ci)	135	270' West & 40' South of NE Monument
CPP-601-6H ?	P10			CPP630SR011/18/6980050 / Metal scrap, paper etc (MFP, 0.03 Ci)	128	375' West & 15' North of SE Monument
CPP-601-6H ?	P10			CPP630SR012/05/6980010 / MFP on chairs (MFP, 0.0001 Ci)	6	425' West of NE Monument
CPP-601-6H ?	P10			CPP630SR001/08/7080060 / Metal scrap (MFP, 0.1 mCi)	132	400' West & 10' South of NE Monument
CPP-601-6H ?	P10			CPP630SR005/12/70800100 / Metal, wood, etc. (MFP, 10 mCi)	100	320' West & 75' South of NE Monument
CPP-601-6H ?	P10			CPP630SR005/12/70810100 / Metal (MFP, 10 mCi)	100	325' West & 80' South of NE Monument
CPP-601-6H ?	P10			CPP630SR005/13/71800 / Scrap metal and pipe (MFP, 1.00E-03 Ci)	128	275' West & 40' South of NE Monument

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
CPP-601-6H ?	P10			CPP630SR006/10/711400 / Scrap metal (MFP, 5.50E-05 Ci)	84	275' West & 85' South of NE Monument
CPP-601-6H ?	P10			CPP640SR004/21/69800155 / Stainless steel (MFP, 4 mCi)	162	90' East & 35' North of SW -2 Monument
CPP-601-6H ?	P10			CPP640SR011/09/70800400 / 5 plywood boxes covered with poly (MFP, 3.85 Ci)	135	275-300' West & 40-50' South of NE Monument
CPP-601-6H ?	P10			CPPSR002/11/7199 / Scrap metal (MFP, <0.001 Ci)	96	300-315' West & 80-90' South of NE Monument
CPP-601-6H ?	P10			CPPSR003/15/71163 / Scrap metal (MFP, 0.01 Ci)	128	275-300' West & 20-30' South of NE Monument
CPP-601-6H ?	P10			CPPSR003/18/71192 / Scrap pipe, conduit, metal (MFP, 0.001 Ci)	128	280-300' West & 30-50' South of NE Monument
CPP-601-6H ?	P10			CPPSR004/21/71257 / Contaminated metal and scraps (MFP, 1 mCi)	96	280-300' West & 20-30' South of NE Monument
CPP-601-6H ?	P10			CPPSR004/23/71262 / Metal scraps, pipe etc. (MFP, 25 mCi)	128	Unknown
CPP-601-6H ?	P11			CPP601SR005/05/70800 / CPP bone yard waste, paper, boxes of scrap metal etc.	30	325' West & 70' South of N/E Monument
CPP-601-6H ?	P11			CPP602SR010/15/70800 / ??? Contaminated waste	10	24' North & 220' East of S/W Monument
CPP-601-6H ?	P12			CPP601SR008/13/70800 / Paper, metal, wood	7	15' East & 5' South of Northwest monument
CPP-601-6H ?	P12			CPP627SR001/10/72121 / EBR-I Mark-III Fuel	7	190' East & 70' South of Northwest monument

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
CPP-601-7H		Zirconium - 18000 kg	18000 kg*	CPP-601 Fuel Process Building - Zirconium & zirconium-uranium alloy. Excess metal scrap used for dissolution studies. (1967- 1967) (11.75 m3) This waste stream is listed in the HDT.	414.9	
CPP-601-7H ?	P9	Zirconium	??	CPP601SR009/22/67800200 / Scrap zirconium and zirconium alloy- miscellaneous shapes and sizes from large pieces to long thin strips. (unknown isotope, 0.1 Ci)	300-350	180-210' North & 0-20' West of SE Monument
CPP-601-7H ?	P9	Zirconium	??	CPP601SR009/22/67810200 / Zirconium scrap with some natural uranium (U, <0.1 (182 kg. natural. U)	90	150-180' North & 0-10' East of SW Monument
NRF-601-1H				NRF-601 S1W Main Building, NRF-613 Radiographic Facility Bldg - Low-level compactable & non-compactable waste from operation of the S1W reactor & related activities. Most was probably particulate with occasional large metal valve or other reactor system component. Also, includes NRF-613. (1960 - 1983) (2942 m3) This waste stream is listed in HDT.	103,895.7	
NRF-601-1H	P6	Lead Asbestos	?? ??	NRF601SR005/16/68800 / Contaminated iron, lead, asbestos, canvas, poly (unknown isotope, 10 mCi)	162	90-100' West & 35-45' North of the SE Monument
NRF-601-1H	P6	Lead	??	NRF601SR006/19/68800 / Scrap valves and piping, washing machine, and lead bricks (Co60, 50 mCi)	135	50' West & 30' North of the SE Monument
NRF-601-1H ?	P10	Lead		NRF601SR010/21/68800 / Six wooden boxes and one pallet of contaminated waste. Includes lead and poly plugs from S1W plant. (unknown isotope, 12 mCi)	480	60' West & 65' North of SW - 2 Monument
NRF-601-1H ?	P10	Lead	??	NRF601SR006/26/69800 / Lead and steel core coffin barrel (unknown isotope, 100 mCi)	900	330-350' East & 15-20' North of SW-2 Monument
NRF-601-1H?	P10	Lead		NRF601SR001/22/70810/ Empty shipping containers constructed of lead and steel (unknown isotope, est. max of 10 mCi each cask, 70 mCi)	70	365' West & 15-45 South of NE monument
NRF-601-1H ?	P10	Zirconium		NRF601SR003/19/70830 / 12 N. Foils, 12 U235 foils, 12 Pu Foils, 750 U-Zr wires, 1 U235 foil, 12 U235 Sr flux wires, 1 Pu, Al foil (Np-Pu, 1 Ci)	1	365' West & 45' South of NE Monument

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
NRF-601-1H	P3			NRF601SR001/23/6180030 / Unknown number of cardboard containers containing clean up material, rags, paper, etc. Possible contamination spread. (Unknown isotope; 0.000070 total curies)	216	30' S & 35' W
NRF-601-1H	P3			NRF601SR002/23/6184010 / Metal scrap and wood plank (contents not in container) (Unknown isotope; .00007 Ci)	216	0+25' W & 0+40' S
NRF-601-1H	P3			NRF601SR003/30/61800253 / Unknown number safe (repository) containers containing active corrosion product samples. Contamination spread. (Unknown isotope; 0.022 total curies)	81	0+5' W & 1+20' N
NRF-601-1H ?	P3			NRF601SR004/10/6180018020 / Unknown number cardboard box containers containing clean up materials contaminated with chemical waste. Contamination spread. (Unknown isotope; 0.075 curie amount)	202.5	0+95' S & 0+5' W
NRF-601-1H	P3			NRF601SR005/05/6180010 / 13-cardboard boxes containing cardboard boxes, poly, blotting water, etc. Possible air activity when dumped. (Unknown isotope; 0.00018 total curies)	156	1+00' S & 0+25' W
NRF-601-1H	P3			NRF601SR006/22/6180011 / Dump truck load radioactive material, scrap, pipe, etc. Contamination spread. (Unknown isotope; 0.001 total curies)	162	1+10' S & 0+20' W
NRF-601-1H ?	P3			NRF601SR007/14/61800102 / Unknown number of cardboard boxes containing clean up material. Contamination spread. (Unknown isotope; 0.0375 total curies)	178.2	0+30' W & 1+10' S
NRF-601-1H	P3			NRF601SR007/21/6180051 / Unknown number of containers containing contaminated equipment and contaminated pipes. Contamination spread. (Unknown isotope; 0.001 total curie)	81	1+10' S & 0+10' W
NRF-601-1H ?	P3			NRF601SR009/26/6181041 / Unknown number of containers containing clean up material. Contamination spread. (Unknown isotope; Unknown curie amount)	675	0+10' N & 0+5' E run 35' North
NRF-601-1H ?	P3			NRF601SR012/08/6181051 / Unknown number of cardboard boxes containing clean up materials. Contamination spread. (Unknown isotope; 0.0223 total curies)	216	1+20' S & 0+20' W
NRF-601-1H ?	P3			NRF601SR012/14/61800121 / Unknown number of poly bags containing clean up materials. Contamination spread. (Unknown isotope; 0.010 total curies)	162	1+10' S & 0+40' W
NRF-601-1H	P3			NRF601SR003/23/6281021 / Unknown number of cardboard box containers containing poly, rags, wood, metal (Co-60; 0.00337 total curies)	216	1+45' S & 0+10' W

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
NRF-601-1H ?	P4			NRF601SR007/27/664 / Bags of contaminated sand and wood crates (unknown isotope, 2.0 mCi)	162	185' West of the SE Monument
NRF-601-1H?	P4			NRF601SR006/22/67800 / Two sections of heat shielding and contaminated piping poly wrapped (corrosion products, <0.1 mCi)	150	RWMIS: 420' West and 90' North of SW Monument (ship doc unreadable)
NRF-601-1H	P6			NRF601SR005/02/68810 / Contaminated soil (unknown isotope, 5 mCi)	135	200' West & 40' North of SE Monument
NRF-601-1H	P6			NRF601SR005/02/68820 / Contaminated soil (unknown isotope, 5 mCi)	135	240' West & 40' North of SE Monument
NRF-601-1H	P6			NRF601SR005/03/68800 / Contaminated soil (unknown isotope, 5 mCi)	135	250' West & 40' North of the SE Monument
NRF-601-1H	P6			NRF601SR005/07/68800 / Contaminated soil (unknown isotope, 5 mCi)	135	255' West & 45' North of the SE Monument
NRF-601-1H	P6			NRF601SR005/07/68810 / Contaminated soil (unknown isotope, 5 mCi)	135	255' West & 45' North of the SE Monument
NRF-601-1H	P6			NRF601SR007/19/68800 / Contaminated soil (unknown isotope, <1 mCi)	81	20' West & 20' North of the SE Monument
NRF-601-1H ?	P9			NRF601SR004/18/6884030 / Shipping cask, metal tank and misc. piping (unknown isotope, 0.3 Ci)	324	190' North & 40' East of SW Monument
NRF-601-1H ?	P9			NRF601SR007/19/6881000 / Contaminated dirt (unknown isotope, 1 mCi)	81	50' West of SE-2 Monument
NRF-601-1H ?	P9			NRF601SR008/01/6881021 / Neutron shipping cask, contaminated wood and soil (unknown isotope, 1 mCi)	54	30' South & 20' East of NW Monument
NRF-601-1H ?	P9			NRF601SR005/26/6980000 / 16 cardboard boxes of contaminated waste (Co60, 2 mCi)	192	40' South & 30' West of NE Monument

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
NRF-601-1H ?	P10			NRF601SR010/17/68800 / Wooden storage boxes containing poly wrapped items (unknown isotope, 1 mCi)	480	25' West & 10' North of SW - 2 Monument
NRF-601-1H ?	P10			NRF601SR003/27/69800 / Sr 90 sets # 363 & # 7-05 Navy<0.1 uCi total 17 Cardboard boxes containing misc. contaminated waste-poly-paper etc (Co60, 0.005 Ci)	204	225' East & 20' South of NW Monument
NRF-601-1H ?	P10			NRF601SR006/24/69800 / Steel, poly, herculite (unknown isotope, 3 mCi)	100	450' East & 50' South of NW Monument
NRF-601-1H ?	P10			NRF601SR007/10/69800 / Contaminated metal, wood, poly & canvas (unknown isotope, 10 mCi)	512	460' East & 0-20 South of NW Monument
NRF-601-1H ?	P10			NRF601SR007/16/69800 / Dirt (Co60, 0.1 mCi)	45	180' East & 25' North of SW-2 Monument
NRF-601-1H ?	P10			NRF601SR007/17/69800 / Dirt (Co60, 0.1 mCi)	135	180' East & 25' North of SW-2 Monument
NRF-601-1H ?	P10			NRF601SR002/25/70800 / 1- APD, 3 vacuum pumps, 1- heise gage, 24- RV studs and accessories 5- transducers, 3- BF3 detectors and accessories, 1-insp. tool, 1- fuel plate storage, and 4- mechanism boxes (unknown isotope, 15 mCi)	216	360-370' West & 10-20' South of NE Monument
NRF-601-1H ?	P10			NRF601SR002/19/71107 / 10 2'x2'x3' cardboard boxes with canvas and 1 2'x2'x3' metal skiff filled with canvas (Co60, 0.09 mCi)	132	275-300' West & 90-100' South of NE Monument
NRF-601-1H ?	P10			NRF601SR003/02/71130 / Contaminated mud from excavation south and west of SIW main building (Co60, 0.05 mCi)	108	300-315' West & 60-70' South of NE Monument
NRF-601-1H ?	P10			NRF601SR003/04/71135 / Contaminated mud from excavation south and west of SIW main building (Co60, 0.05 Ci)	108	300-315' West & 60-80' South of NE Monument
NRF-601-1H ?	P10			NRF601SR003/04/71139 / Contaminated mud from excavation south and east of SIW main building (Co60, 0.04mCi)	81	300-315' West & 50-65' South of NE Monument

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
NRF-601-1H ?	P10			NRF601SR003/05/71141 / Contaminated mud from excavation of SIW main building (Co60, 0.05 mCi)	108	300-315' West & 60-70' South of NE Monument
NRF-601-1H ?	P10			NRF601SR003/12/71159 / Contaminated mud from excavation south of S1W Pump House (Co60, 0.05 mCi)	216	290-310' West & 20-30' South of NE Monument
NRF-601-1H ?	P10			NRF601SR003/12/71160 / Contaminated mud from excavation south of S1W Pump House (Co60, 0.2 mCi)	216	300-315' West & 20-30' South of NE Monument
NRF-601-1H ?	P10			NRF601SR003/13/71161 / Contaminated mud form excavation south of S1W pump house (Co60, 0.05 mCi)	216	300-315' West & 20-30' South of NE Monument
NRF-601-1H ?	P10			NRF601SR003/14/71162 / Contaminated mud from excavation south of S1W Pump House (Co60, 0.05 mCi)	216	280-300' West & 30-40' South of NE Monument
NRF-601-1H ?	P10			NRF601SR003/18/71170 / Contaminated soil form excavation south of S1W pump house (Co60, 0.2 mCi)	216	260-280' West & 80-100' South of NE Monument
NRF-601-1H ?	P10			NRF601SR003/18/71174 / Contaminated mud from excavation south of S1W Pump House (Co60, 0.2 Ci)	216	260-280' West & 80-100' South of NE Monument
NRF-601-1H ?	P10			NRF601SR003/18/71175 / Contaminated soil from excavation south of S1W pump house (unknown isotope, 0.2 mCi)	216	280-300' West & 80-100' South of NE Monument
NRF-601-1H ?	P10			NRF601SR003/18/71183 / Contaminated soil (Co60, 2.00E-04 Ci)	216	260-280' West & 80-100' South of NE Monument
NRF-601-1H ?	P10			NRF601SR003/19/70820 / Contaminated wood, poly, rags, blotting paper and metal (unknown isotope, 8 mCi)	145	365' West & 60' South of NE Monument

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
NRF-601-1H ?	P10			NRF601SR003/19/71176 / Contaminated soil from excavation south of S1W pump house (Co60, 0.2 mCi)	216	260-300' West & 80-100' South of NE Monument
NRF-601-1H ?	P10			NRF601SR003/19/71177 / Contaminated soil from excavation south of S1W pump house (Co60, 0.2 mCi)	216	260-300' West & 80-100' South of NE Monument
NRF-601-1H ?	P10			NRF601SR003/19/71178 / Contaminated soil from excavation south of S1W pump house (Co60, 0.2 mCi)	216	280-300' West & 40-60' South of NE Monument
NRF-601-1H ?	P10			NRF601SR003/19/71179 / Contaminated soil from excavation south of S1W pump house (Co60, 0.2 mCi)	216	280-300' West & 40-50' South of NE Monument
NRF-601-1H ?	P10			NRF601SR003/19/71180 / Contaminated soil from excavation south of S1W pump house (Co60, 0.2 mCi)	216	280-300' West & 50-70' South of NE Monument
NRF-601-1H ?	P10			NRF601SR003/19/71181 / Contaminated soil from excavation south of S1W pump house (Co60, 0.2 mCi)	216	260-300' West & 80-100' South of NE Monument
NRF-601-1H ?	P10			NRF601SR003/19/71187 / Contaminated soil from excavation south of S1W pump house (Co60, 0.2 mCi)	216	260-300' West & 80-100' South of NE Monument
NRF-601-1H ?	P10			NRF601SR003/19/71193 / Contaminated soil from excavation south of S1W pump house (Co60, 0.2 mCi)	216	280-300' West & 50-70' South of NE Monument
NRF-601-1H ?	P10			NRF601SR003/19/71195 / Contaminated soil from excavation south of S1W pump house (Co60, 0.2 mCi)	216	260-280' West & 50-60' South of NE Monument
NRF-601-1H ?	P10			NRF601SR003/22/71103 / Contaminated soil (Co60, 2.00E-04 Ci)	216	280-300' West & 20-30' South of NE Monument

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
NRF-601-1H ?	P10			NRF601SR003/22/71194 / Contaminated soil from excavation south of S1W pump house (Co60, 0.2 mCi)	216	280-300' West & 20-30' South of NE Monument
NRF-601-1H ?	P10			NRF601SR003/22/71196 / Contaminated soil from excavation south of S1W pump house (Co60, 0.2 mCi)	216	260-270' West & 50-60' South of NE Monument
NRF-601-1H ?	P10			NRF601SR003/22/71197 / Contaminated spill from excavation south of S1W pump house (Co60, 0.2 mCi)	216	280-300' West & 30-50' South of NE Monument
NRF-601-1H ?	P10			NRF601SR004/01/71220 / Contaminated pumping equipment, hoses and miscellaneous scrap material (Co60, 2 mCi)	162	280-300' West & 40-60' South of NE Monument
NRF-601-1H ?	P10			NRF601SR004/28/71274 / Carbon steel tank (drain measuring tank and associated piping) (Co60, 50 mCi)	70	280-300' West & 10-30' South of NE Monument
NRF-601-1H ?	P10			NRF601SR005/10/71120 / Stainless steel and poly (Co60, 1E-06 Ci)	200	260-300' West & 5-20' South of NE Monument
NRF-601-1H ?	P10			NRF601SR005/18/71151 / General plant waste (Co60, 1.50E-03 Ci)	145	285' West & 5' South of NE Monument
NRF-601-1H ?	P10			NRF601SR005/26/711320 / Head bolts and nuts (Co60, 4.80E-05 Ci)	200	275' West & 70' South of NE Monument
NRF-601-1H ?	P10			NRF601SR006/10/71140 / General plant waste (Co60, 1.00E-04 Ci)	90	275' West & 80' South of NE Monument
NRF-601-1H ?	P10			NRF601SR006/29/71113 / Carbon steel tank (Co60, 3.00E-04 Ci)	50	270' West & 60' South of NE Monument
NRF-610				NRF-610 S1W Flammable Storage Building No waste stream in the HDT could be identified with shipments with source NRF-610.		

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
NRF-610 ?	P10			NRF610SR004/27/70830 / Miscellaneous scrap material (Co60, 0.05 mCi)	270	325' West & 70' South of NE Monument
NRF-610 ?	P10			NRF610SR011/05/68800 / Contaminated ladders- obsolete equipment, contaminated waste containers (unknown isotope, 2 Ci)	900	30' East & 20' North of SE - 2 Monument
NRF-617-1H				NRF-617, A, B, C A1W Buildings - Low-level compactable & non-compactable waste from operation of the A1W reactor & related activities. Most was probably particulate with occasional large metal valve or other reactor system component. Also, includes NRF-616, -636, -619, -630, & -631. (1960 - 1983) (3092 m3) This waste stream is listed in HDT.	109,192.9	
NRF-617-1H ?	P2			NRF617SR006/18/63800153 / Scrap metal - poly - blotting paper and 18 2x2x3 cardboard boxes (unknown isotope, 27 mCi)	216	90' from West and 40' from North side
NRF-617-1H ?	P2			NRF617SR008/20/6280041 / Scrap metal, poly, blotting paper, etc. (unknown isotope, 22 mCi)	216	525' West and 60' South of the NE #2 pit marker
NRF-617-1H ?	P2			NRF617SR008/24/6280011010 / Waste poly, blotting paper, rags, etc. contained in cardboard boxes (unknown isotope, 35 mCi)	213	470' West and 45' South of NE #2 pit marker
NRF-617-1H	P3			NRF617SR004/28/6180000 / Unknown number of cardboard boxes containing poly, rags, paper and scrap metal (Unknown isotope; 0.001 total curies)	204	0+75' S & 0+70' W
NRF-617-1H	P3			NRF617SR006/28/61800159 / Unknown number of cardboard boxes containing poly, paper, rags, metal, trash (Unknown isotope; 0.0013 total curies)	216	1+50' S & 0+75' W
NRF-617-1H	P3			NRF617SR007/14/6181031 / Unknown number of cardboard boxes containing routine solid waste. (Unknown isotope; 0.0018 total curies)	216	0+30' W & 1+10' S
NRF-617-1H	P3			NRF617SR007/27/6181071 / Unknown number of cardboard boxes containing poly, paper, metal, wood (Unknown isotope; 0.0007 total curies)	216	1+00' S & 0+70' W
NRF-617-1H	P3			NRF617SR011/21/6180000 / Unknown containers with blotting paper, poly, scrap material, etc. (Unknown isotope; 0.00012 total curies)	202.5	Unknown

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
NRF-617-1H	P3			NRF617SR012/21/6180030 / Unknown number of cardboard boxes containing scrap, poly, blotting paper and high performance filters. (Unknown weight for Co60; 0.003 Ci)	216	1+05' S & 0+50' W
NRF-617-1H ?	P3			NRF617SR001/24/6282020 / Unknown number of cardboard boxes containing clean up materials and decontamination waste. (Unknown isotope; 0.002 total curies)	216	1+35' S & 0+15' W
NRF-617-1H ?	P3			NRF617SR002/02/6280010 / Unknown number of cardboard boxes containing clean up materials. (Unknown isotope; 0.0022 total curies)	216	1+30' S & 0+55' W
NRF-617-1H	P3			NRF617SR004/03/6280020 / Unknown number of cardboard boxes containing poly blotting paper, rags, etc. To CFA burial grounds. (Unknown isotope; 0.0008 total curies)	216	80' S & 20' W of NE #3 trench marker
NRF-617-1H	P3			NRF617SR004/10/6281000 / Unknown number of cardboard boxes containing poly, blotting paper, scrap iron, etc. (Unknown isotope; 0.0016 total curies)	216	110' S & 40' W of NE #3 trench marker
NRF-617-1H ?	P4			NRF617SR009/17/65800 / Possible internal contamination, steel and concrete barrel (unknown isotope, <0.1 mCi)	240	510' West and 35' North of SE Monument
NRF-617-1H?	P4			NRF617SR005/02/67800 / empty barrels (Co60, 24.2 mCi) (RWMIS content code oil)	104	Unknown
NRF-617-1H ?	P5			NRF617SR003/29/66350 / Scrap metal contained in poly and wooden boxes - excessed to scrap (Co60, 0.03 Ci)	54	85' East & 95' North of the S/W Monument
NRF-617-1H ?	P5			NRF617SR004/11/66111 / One 30' piece of pipe (Co60, 1 uCi)	7	75' North of S/W Monument
NRF-617-1H ?	P9			NRF617SR006/02/691816151 / Cardboard boxes filled with waste paper, plating paper, rags, etc. (Co60, 30 mCi)	204	20' South & 15' West of NE Monument
NRF-617-1H ?	P10			NRF617SR010/02/69800 / Motor tubes, locking devices, probe, rotors and misc. small parts for refueling equipment (Co60, 30 mCi)	448	590' East & 50' South of NW Monument
NRF-617-1H ?	P10			NRF617SR003/11/70820 / Core Hardware (AIW-2) (Co60, 0.5 Ci)	400	365' West & 10-40' South of NE Monument

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
NRF-617-1H ?	P10			NRF617SR008/20/70810 / Dump truck load of metal scaffolding (Cs137, 0.1 mCi)	128	320' West & 75' South of NE Monument
NRF-617-1H ?	P10			NRF617SR012/01/70800 / Misc. dirt and pieces of wood (Co-60, 0.005 Ci)	27	315 West & 60' - 75' South of NE Monument
NRF-617-1H ?	P10			NRF617SR001/11/7132 / Metal, wood, poly (Co60, 0.002 Ci)	100	260-280' West & 60-100' South of NE Monument
NRF-617-1H ?	P10			NRF617SR003/18/71173 / Metal and wood (Co60, 0.9 Ci)	220	260-275' West & 80-100' South of NE Monument
NRF-617-1H ?	P10			NRF617SR003/22/71199 / Tanks (Co60, 0.03 mCi)	840	260-300' West & 30-80' South of NE Monument
NRF-617-1H ?	P10			NRF617SR003/23/71200 / 5 metal tanks, 1 condenser, 4 fans (Co60, 0.03 mCi)	736	260-300' West & 0-60' South of NE Monument
NRF-617-1H ?	P10			NRF617SR004/20/71254 / Refueling tools (Co60, 0.024 Ci)	121	260-300' West & 20-60' South of NE Monument
NRF-617-1H ?	P10			NRF617SR004/29/71275 / Aluminum, steel, poly (unknown isotope, 0.0005 Ci)	86	280-300' West & 10-30' South of NE Monument
NRF-617-1H ?	P10			NRF617SR005/05/71800 / Two metal precipitrons, one metal filter box & miscellaneous piping and ducting (Co60, 1.4 mCi)	319	260-300' West & 20-40' South of NE Monument
NRF-617-1H ?	P10			NRF617SR006/04/71900 / Stainless steel poly (Co60, 3.30E-02 Ci)	300	290' West & 5' South of NE Monument
NRF-617-1H ?	P10			NRF617SR006/21/71130 / Reactor head (Co-60, 1.00E-03 Ci)	172	275' West & 85' South of NE Monument

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
NRF-617-1H ?	P10			NRF617SR007/02/71135 / Holding barrel (Co60, 1.10E-02 Ci)	350	270' West & 50' South of NE Monument
NRF-617-2H		Asbestos (55-83) - Unk (Est. - should be large) Lead (55-83) - Unk (Est. - should be large)	Unk(Est - should be large) Unk(Est - should be large)	NRF-617, A, B, C A1W Buildings - Lead & asbestos. Lead was shielding matl. In bricks & sheets. Asbestos was loose, friable thermal insulation removed from piping. Also include NRF-616, -636, -619, -630, -631, & -618. (1955 - 1983) (no quantity given) This waste stream is listed in HDT.		
NRF-617-2H ?	P10	Lead		NRF618SR007/08/71100 / Contaminated ducting, soil, and lead brick (Co60, 1.00E-03 Ci)	393	270' West & 40' South of NE Monument
NRF-617-2H ?	P10	Lead		NRF618SR007/28/70810 / Alpha box, scrap lumber from cell #10, lead bricks (unknown isotope, 0.005 Ci)	60	325' East & 50' South of NE Monument
NRF-618-1H		Hydrofluoric Acid (60-64) - Unk (PUL 2200 kg)	Unk (PUL 2200 kg)	NRF-618 Expended Core Facility - Dissolved PWR fuel rods absorbed in vermiculite in poly bottles. (1960 - 1964) (5.5 m3) This waste stream is listed in the HDT.	194.2	
NRF-618-1H ?	P2	Hydrofluoric Acid?	??	NRF618SR008/21/6280015050 / Rags, blotting paper, dissolution waste absorbed in vermiculite filled poly bottles (unknown isotope, 200 mCi)	162	465' West and 60' South of NE #2 pit marker
NRF-618-2H				NRF-618 Expended Core Facility - Structural components from Navy core fuel bundles. End boxes & other components. (1955 - 1975) (427.3 m3) This waste stream is listed in the HDT.	15,090	
NRF-618-2H	P4	Lead	??	NRF618SR001/19/67800 / Trolley Hoist that is part of Capital Equipment tag #A12064, 5 DP cells tag# Z1016, Z1017, Z1034, & Z1040 and contaminated lead (unknown isotope, 1 mCi)	140	210' West & 40' North of SE Monument
NRF-618-2H ?	P2			NRF618SR006/18/6381015040 / (18) 2x2x3 cardboard boxes containing misc. scrap (unknown isotope, 0.45 Ci)	216	1+65 from West and 0+40 from North side
NRF-618-2H	P4			NRF618SR002/17/67810 / Empty boxes, (1) guillotine gate and lumber, all contaminated (unknown isotope, 2.5 mCi)	270	195-200' West & 45-55' North of SE Monument

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
NRF-618-2H	P4			NRF618SR006/23/67800 / Corrosion products (unknown isotope, 500 mCi)	250	0-20' West & 50-60' North SE Monument
NRF-618-2H	P4			NRF618SR007/25/67800 / Metal work platform, (2) stainless steel trays (Co60, 10 uCi)	135	30' West of SE Monument
NRF-618-2H	P4			NRF618SR008/09/67800 / Four each barrels of mixed fission waste materials and one steel stand (Co60, 175 mCi)	90	20' West & 15' North of SE Monument
NRF-618-2H	P4			NRF618SR008/22/67810 / Eight each barrels of slurry from evaporator tanks; miscellaneous steel pipe pieces (Co60, 2.65 mCi)	70	15' West & 10' North of SE Monument
NRF-618-2H ?	P10			NRF618SR010/06/69810 / 3 S3G control rod drive units (unknown isotope, 20 Ci)	18	100' East & 5' South of NW Monument
NRF-618-3H				NRF-618 Expanded Core Facility - Structural components from Navy core fuel bundles. End boxes & other components. (1976 - 1980) (98.77 m3) This waste stream is listed in the HDT.	3488	
NRF-618-4H				NRF-618 Expanded Core Facility - Structural components from Navy core fuel bundles. End boxes & other components. (1981 - 1983) (56.6 m3) This waste stream is listed in the HDT.	1998.8	
NRF-618-5H		Zirconium Alloys - 13000 lb	13000 lb*	NRF-618 Expanded Core Facility - Zirconium alloy (zircaloy) cladding from Navy cores. Solid scrap, chips from machining operations, & saw fines placed in 5-gal cans. (1955 - 1975) (11.7 m3) This waste stream is listed in the HDT.	413.2	
NRF-618-5H ?	P2	Zirconium	??	NRF618SR009/27/628006000100 / Cell 7 liner and components. Cask containing solid Zr-95 scrap metal, all items sufficiently wrapped (unknown isotope, 40 Ci)	270	450' East of NW pit marker
NRF-618-6H				NRF-618 Expanded Core Facility - Solidified sludge, resin, waste liquids in vermiculite, mainly in metal drums or tanks. Also includes NRF-601, -617, & -633. (1955 - 1983) (624.0 m3) This waste stream is listed in the HDT.	22,036.4	

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
NRF-618-6H ?	P3	Nitric Acid		NRF618LR005/01/6180000 / 25 55-gal.barrels containing acid, nitric 67.2% by volume concentrated. Dispose in burial ground acid pit using wood platform. Liquid is to be emptied into the acid pit and drums disposed in pit #3. (Unknown isotope; Unknown curie amount)	183	Pit #3 and acid pit as per instructions in "Description" column **
NRF-618-6H ?	P3	Acetone Benzine		NRF618SR001/26/67820202 / 3 5-gal. containers containing acetone and benzine contaminated with active corrosion products (Unknown amount of Co60; 0.2 total curies)	2	Burial Grounds liquid disposal
NRF-618-6H ?	P3	Oil		NRF617SR007/11/66151 / Unknown number of metal oil tanks containing low level waste oil (Unknown isotope; 1.46E-05 total curies)	60	Shallow liquid Pit #3
NRF-618-6H ?	P3	Oil		NRF617SR012/09/66151 / Unknown number of metal oil tanks containing tank of low level waste oil. (Unknown isotope; 1.46E-06 total curies)	60	Shallow Liquid Pit #3
NRF-618-6H ?	P3	Oil		NRF617SR008/02/6781051 / Unknown number of metal oil tanks containing low level waste oil. Contamination spread if tanker is broken. (Unknown isotope; 1.5E-05 total curies)	60	Liquid Pit #3
NRF-618-6H ?	P3	Oil		NRF617SR003/25/6880051 / Unknown number of metal oil tanks containing low level waste oil. Contamination spread if tank is broken. (Unknown isotope; 0.0000146 total curies)	60	Unknown
NRF-618-6H ?	P3	Oil		NRF617SR005/13/6880051 / Unknown number of metal tanks containing low level waste oil. Contamination spread if tanker is broken (Unknown weight for Co60; 1.5E-05 total curies)	60	Unknown
NRF-618-6H	P4	HOH Resin		NRF617SR002/07/63800 / Used HOH resin with approximately 10 gallons of water (Co60, 0.385 mCi)	250	270' East of West Pit marker
NRF-618-6H	P4	LiOH Resin		NRF617SR002/07/63810 / Used LiOH resin with approximately 10 gallons of water in 8' x 6' dia. concrete shielded tank (Co60, 1.55 Ci)	250	270' East of West Pit marker
NRF-618-61H ?	P4	HOH Resin		NRF617SR011/06/63800 / 27 cubic feet of HOH resin with approximately 1 gallon of water enclosed in steel and concrete cylinder (Co60, 4 mCi)	250	125' from West end, 20' from North side
NRF-618-6H ?	P4	HOH Resin		NRF617SR011/14/63800 / 27 cubic feet of HOH resin with approximately 1 gallon of water enclosed in steel and concrete cylinder (Co60, 4 mCi)	250	125' from West end, 30' from North side

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
NRF-618-6H ?	P5	Oil		NRF617SR001/20/66251 / Tank of contaminated waste oil (Co60, 46 uCi)	242	75' N/W of the S/W Monument
NRF-618-6H ?	P9	Oil		NRF617SR005/22/6880010 / Waste oil sludge (Co60, 17 uCi)	67	85' North & 40' West of SE Monument
NRF-618-6H ?	P10	Oil		NRF617SR005/14/71900 / Metal, wood, paper waste & 3 solidified waste Oil drums _AIW (55 gal) (Co60, 0.002 Ci)	145	280-290' West & 10-20' South of NE Monument
NRF-618-6H ?	P10	Oil		NRF617SR002/25/71120 / 66 ft ³ oil absorbed in fullers earth, 18 ft ³ ? parts, refer to WSRC-3413, C-3425, & 8 ft ³ scrap metal pipe (Co60, 1.0 uCi)	92	300-315' West & 50-60' South of NE Monument
NRF-618-6H ?	P2			NRF618SR004/03/638104010 / High level tank B carbon steel corrosion products Co60 (unknown isotope, 0.03 Ci)	133	60' East of NW marker
NRF-618-6H ?	P2			NRF618SR004/18/63810151 / One ss water pit container 7'x6'x5'. One ss con. 7'x5'x3' Two ss trays 4'x5'x1' and 3 wooden ladders (unknown isotope, <1 mCi)	360	110' North of SW marker
NRF-618-6H ?	P3			NRF618SR003/16/628004010 / Unknown number of cardboard boxes containing blot paper, rags, poly and (one 55-gal drum M-130, H2O absorbed in vermiculite). (Co-60; 0.041 total curies)	216	1+40' S & 0+25' W
NRF-618-6H ?	P4			NRF618SR008/10/662 / Residual waste, diatomaceous earth, and contaminated scrap iron, (unknown isotope, 75 mCi)	384	290' West of the SE Monument
NRF-618-6H ?	P5			NRF618SR004/07/66110 / Evaporator slurry in vermiculite. Individual barrels measure from 500 mr/hr to 2.5 mr/hr (unknown isotope, 1.2 Ci)	59	75' North of the S/W Monument
NRF-618-6H ?	P5			NRF618SR008/31/66410 / Rad waste, RWMIS content code solidified liquid (Co60, 1.00E-02 Ci)	144	175' North of S/W Monument
NRF-618-6H ?	P5			NRF618SR009/15/66140 / Assorted scrap material from ECF operations work. BBLs., Lumber etc., barrel contain slurry in vermiculite 4 each (unknown isotope, 40 mCi)	160	190' North of S/W Monument
NRF-618-6H	P6			NRF618SR007/19/67800 / Evaporator bottoms concentrates on absorbents (Co60, 1.5 Ci)	32	5 - 10' East & 5 -10' South of the NW Monument

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
NRF-618-6H ?	P9			NRF618SR005/09/6882080050 / Degassifier collection tank containing solids - fuller earth, cement and celite (unknown isotope, 300 mCi)	137	155' North & 20' East of SW Monument
NRF-618-6H ?	P10			NRF601SR001/02/69800 / Ion exchanger resin and moisture absorbing material in 55 gal sealed drums (unknown isotope, 250 mCi)	7	275' East & 70' South of NW Monument
NRF-618-6H ?	P10			NRF601SR002/14/69800 / 5 DIA. X ITL C/S Tank with sludge, water, and liquid absorbent in it and one electrical panel (unknown isotope, 150 mCi)	335	370' East & 60-70' South of NW Monument
NRF-618-6H ?	P10			NRF618SR009/16/69810 / Evaporator bottoms solidified in fullers earth and stored in carbon steel tank. Co60 principal isotope (Co60, 0.06 Ci)	400	585-600' East & 50' South of NW Monument
NRF-618-6H ?	P10			NRF618SR008/08/69810 / Celite cake excess moisture absorbed using Fullers Earth: principal isotope Co60 (unknown isotope, 2.8 Ci)	175	RWMIS: 310SE2-5N
NRF-618-6H ?	P10			NRF618SR008/14/69820 / Celite cake excess moisture absorbed using Fullers Earth: principal isotope Co60 (unknown isotope, 2.8 Ci)	175	320-340' SE Monument 60-100' South Bank
NRF-618-6H ?	P10			NRF618SR008/26/69800 / Celite cake excess moisture absorbed using Fullers Earth: principal isotope Co60 (unknown isotope, 2 Ci)	175	325' East & 25' North of SW-2 Monument
NRF-618-6H ?	P10			NRF617SR004/13/70840 / Used resin & piping (Co60, 2 Ci)	138	325-335' West & 15' South of NE Monument
NRF-618-6H ?	P10			NRF618SR006/12/70820 / Evaporator sludge absorbed in fullers earth contained in cs drums cast in 6" thick concrete (Co60, 1.5 Ci)	200	320-330' West & 40' South of NE Monument
NRF-618-6H ?	P10			NRF618SR010/15/70830 / Evaporator bottoms solidified in fullers earth in carbon steel drums encased in 6" of concrete, (Co60, 0.34 Ci)	81	315' West & 20' South of NE Monument
NRF-618-6H ?	P10			NRF617SR010/16/70800 / Resin, in 55 gal drums, covered with solidifying material, in concrete for shielding (Co60, 230 mCi)	145	315-330' West & 20-40' South of NE Monument
NRF-618-6H ?	P10			NRF617SR010/22/70830 / AIW decay tank A sludge solidified with fuller earth (Co60, 750 uCi)	18	315-330' West & 20-40' South of NE Monument

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
NRF-618-6H ?	P10			NRF618SR002/12/7183 / Evaporator bottoms solidified in fullers earth in concrete coated steel drums, misc. table and table top, and one pump also misc. buckets (Co60, Co58, 0.084 Ci)	125	290-315' West & 0-15' South of NE Monument
NRF-617-6H ?	P12			NRF617SR004/20/71267 / U235 solidified waste containing Cs-137 and Ru-xx (0.52 gm U-235, 0.981 Ci)	27	143-146' East, 55-60' South of NW Monument
NRF-618-7H				NRF-618 Expended Core Facility - Low-level compactable & non-compactable waste resulting from work at the ECF water pits & hot cells. Packaged in cardboard boxes, though some in metal & other. (1960 - 1983) (12460 m3) This waste stream is listed in the HDT.	440,020.7	
NRF-618-7H ?	P2		??	NRF618SR008/24/628105015 / Rags, blot paper, and miscellaneous with scrap. (unknown isotope, 25 mCi)	216	460' West and 50' South of #2 pit marker
NRF-618-7H	P3			NRF618SR001/24/6181050 / Contaminated waste material contained in cardboard. (Unknown isotope; <0.001 total curies)	213.3	30' S & 40' W
NRF-618-7H	P3			NRF618SR002/03/6180050070 / Unknown number of unknown containers containing lucite cell liner. (Unknown weight for fission products; 1 total curie)	81	40' S & 5' W
NRF-618-7H	P3			NRF618SR005/12/61800607 / Unknown number of wooden boxes containing stainless steel waste. (Unknown isotope; 0.0015 total curies)	405	1+00' S & 0+05' W
NRF-618-7H	P3			NRF618SR011/07/6180010030 / Unknown number of cardboard boxes containing contaminated waste, poly, rags, blotting paper and etc. (Unknown isotope; 0.325 total curies)	216	0+65' S & 0+25' W
NRF-618-7H?	P3			NRF618SR001/12/6280000 / Unknown number of cardboard boxes containing clean up material, blotting paper, rags associated, paper, etc. (Unknown isotope; 0.0015 total curies)	107.1	1+30' S & 0+05' W
NRF-618-7H	P3			NRF618SR001/24/6281010 / Sheet metal duct work with ends covered with poly and taped. All contamination internal. (Unknown isotope; <0.0001 total curies)	108	1+20' S & 0+40' W
NRF-618-7H	P3			NRF618SR001/25/6280050 / Contaminated metal duct work. (Unknown isotope; 0.0001 total curies)	108	1+10' S & 0+35' W

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
NRF-618-7H	P3			NRF618SR001/25/6281010 / Unknown number of containers containing internally contaminated duct and pipe. (Unknown isotope; 0.0001 total curies)	108	1+10' S & 0+30' W
NRF-618-7H	P3			NRF618SR002/14/62810152 / Unknown number of containers containing metal pipes, blotting paper, poly and cardboard. (Unknown isotope; 0.053 total curies)	216	1+30' S & 0+35' W
NRF-618-7H	P3			NRF618SR003/16/628101500200 / Blot paper, rags, poly contained in poly-lined cardboard boxes. (Unknown isotope; 6.9 total curies)	216	1+30' S & 0+45' W
NRF-618-7H	P3			NRF618SR003/23/6280031 / Unknown number of containers containing poly, blotting paper, waste, etc. (Unknown isotope; 0.0102 total curies)	216	1+45' S & 0+15' W
NRF-618-7H	P3			NRF618SR003/30/6280020050 / Blot paper, rags, poly contained in poly lined cardboard boxes (Unknown isotope; 0.429 total curies)	216	80' S & 25' W of NE #3 trench marker
NRF-618-7H	P3			NRF618SR003/30/62810202 / Rags, blot paper, poly contained with cardboard boxes (Co-60; 0.014 total curies)	216	80' S & 7' W of NE #3 trench marker
NRF-618-7H	P3			NRF618SR004/05/6280051 / Unknown containers containing rags, poly, blotting paper contained in cardboard boxes. (Unknown isotope; 0.0057 total curies)	216	125' S & 25' W of NE #3 trench marker
NRF-618-7H	P3			NRF618SR004/09/62800 / Unknown containers containing clothing, poly, blotting paper, rags contained in cardboard boxes. (Unknown isotope; 0.099 total curies)	216	125' S & 25' W of NE #3 trench marker
NRF-618-7H ?	P4			NRF618SR003/03/661 / Shroud enclosure and old heater (24), Enclosure (168) (unknown isotope, 7.5 mCi)	192	10' East and 95' North of SW Monument
NRF-618-7H ?	P4			NRF618SR007/07/661 / Contaminated clean up material, metal & wood (unknown isotope, 12 mCi)	250	220' West of the SE Monument
NRF-618-7H ?	P4			NRF618SR007/22/664 / Contaminated clean up material, 4(???????) (unknown isotope, 165 mCi)	380	230' West of the SE Monument
NRF-618-7H ?	P4			NRF618SR005/05/67820 / Four (4) Cement filled barrels (unknown isotope, 0.1 mCi)	243	95' North & 60' West of SE Monument
NRF-618-7H ?	P5			NRF618SR004/23/65800 / 55 W M-130 Module holders (27 wooden boxes) (Co60, 0.25 Ci)	650	15' South of N/W Monument

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
NRF-618-7H ?	P5			NRF618SR002/11/66471 / Contaminated and irradiated wood, poly, rags, and metal components (unknown isotope, 20 mCi)	216	20' East & 40' North of the S/W Monument
NRF-618-7H ?	P5			NRF618SR005/03/66221 / Metal cabinet (unknown isotope, 0.4 Ci)	108	90' East & 132' North of S/W Monument
NRF-618-7H ?	P5			NRF618SR009/12/66110 / Assorted wood scrap from ECF programs (unknown isotope, 1 mCi)	16	160' North of the S/W Monument
NRF-618-7H	P6			NRF618SR006/29/67700 / Seal weld cutting machine & bits/plugs, scrap lumber from ECF (Co60 1 mCi)	150	160-165' West of the SE Monument
NRF-618-7H	P6			NRF618SR007/19/67810 / Contaminated lumber contained in poly sheeting (Corr. Products, <1 mCi)	50	5 -10' East & 5 - 10' South of the NW Monument
NRF-618-7H	P6			NRF618SR009/07/67820 / Mayno pump, mechanical arm with outer shroud and gear train for telescoping hoist, 18" diameter X 8 ft long; grappler inst-subass'y; column platform support; BISA storage cask, shipping 15 ton (Co60, 50 mCi)	270	265-320' West & 0-5' South of NE Monument
NRF-618-7H	P6			NRF618SR005/01/68800 / Truck load of scarp metal (unknown isotope, 1 mCi)	200	40-50' West & 20' North of SE Monument
NRF-618-7H	P6			NRF618SR005/21/68800 / Contaminated scrap wood and ducting (unknown isotope, 7.5 mCi)	150	110' West & 45' North of SE Monument
NRF-618-7H	P6			NRF618SR007/12/68800 / Five wooden boxes, internally contaminated (unknown isotope, 1 mCi)	120	30' West & 30' North of SE Monument
NRF-618-7H ?	P9			NRF618SR001/16/68800101 / 8x8x8 wooden cell entry mock-up (contaminated) Also misc. contaminated metal waste (unknown isotope, 3.0 mCi)	588	240-260' North & 30-50' East of SW Monument
NRF-618-7H ?	P9			NRF618SR002/21/6883000 / Metal scrap from the ECF area (Co60, 1 uCi)	96	80' North & 10' West of the SE Monument
NRF-618-7H ?	P9			NRF618SR003/12/688001007 / Boxes and bundles of fixtures and tools (unknown isotope, 10 mCi)	270	150' North & 0-15' East of SW Monument

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
NRF-618-7H ?	P9			NRF618SR003/13/6880020030 / One excess stainless steel storage pack wrapped in yellow poly (unknown isotope, 20 mCi)	840	200' North & 20-30' East of SW Monument
NRF-618-7H ?	P9			NRF618SR003/18/68820401 / 5 storage insert liners one box containing contaminated metal waste (unknown isotope, 5 mCi)	12	150-170' South & 5' East of SW Monument
NRF-618-7H ?	P9			NRF618SR004/11/68181211 / 6 each contaminated wooden boxes (empty) (unknown isotope, 1 mCi)	300	60-70' South & 5-15' East of NW Monument
NRF-618-7H?	P9			NRF618SR004/15/68180911 / Scrap metal (unknown isotope, 0.1 mCi)	81	175' North of SW Monument
NRF-618-7H ?	P9			NRF618SR005/14/688002505 / Ducting from degasifier (unknown isotope, 0.5 mCi)	280	130' North & 15' East of SW Monument
NRF-618-7H ?	P9			NRF618SR006/04/6880000 / Nuts, bolts, and metal plates from the crane rail alignment job (unknown isotope, 1 mCi)	96	140-150' North & 20-25' East of SW Monument
NRF-618-7H?	P9			NRF618SR006/19/6882000 / scrap metal (unknown isotope, 1 mCi)	72	25' North & 40' West of SE Monument
NRF-618-7H ?	P9			NRF618SR007/26/688002007 / Miscellaneous waste piping and wooden structure, scrap metal (Co60, 20 mCi)	16	100' North & 30' East of SW Monument
NRF-618-7H ?	P9			NRF618SR008/07/68810250030 / Dirt and scrap metal - covered and double wrapped (unknown isotope, 70 mCi)	81	100-105' South & 30' East of NW Monument
NRF-618-7H ?	P9			NRF618SR008/20/688002003 / Miscellaneous contaminated scrap and wooden boxes (Co60, 3 mCi)	550	165-175' South & 10' West of NE Monument
NRF-618-7H ?	P9			NRF618SR008/21/68810405 / 7 Each 50 gallon drums - scrap wood, metal & scaffolding (unknown isotope, 4 mCi)	189	75' West & 175' South of NE Monument
NRF-618-7H ?	P9			NRF618SR009/05/68830503 / Contaminated rack inserts and misc. contaminated pieces of scrap metal (unknown isotope, 5 mCi)	300	105-120' South & 60-70' West of NE Monument

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
NRF-618-7H ?	P9			NRF618SR009/12/6880000 / Metal waste from ECF (Co60, <0.0001 Ci)	204	170' South of NE Monument
NRF-618-7H ?	P9			NRF618SR010/17/6882010 / Contaminated scrap metal and scrap paper and wood (unknown isotope, 1 mCi)	270	35' West of NE Monument
NRF-618-7H?	P9			NRF618SR005/23/6982000 / Scrap metal that is potentially contaminated although no contamination was found on the survey (unknown isotope, <0.1 mCi)	102	60' South of NE Monument
NRF-618-7H ?	P9			NRF618SR005/26/69810100 / Contaminated cleanup material (unknown isotope, 45 mCi)	204	North West end
NRF-618-7H ?	P9			NRF618SR005/29/6980020035 / Paper, poly cleanup material (Co60, 0.152 Ci)	204	North end, 25' East
NRF-618-7H ?	P9			NRF618SR006/02/69800151 / Blotting paper, rags, poly, and misc. waste (Co60, 0.008 Ci)	204	15' South & 25' West of NE Monument
NRF-618-7H ?	P9			NRF618SR006/02/69810202 / Blotting paper, rags, poly, and misc. waste (Co60, 0.041 Ci)	204	10' SW of NE Monument
NRF-618-7H ?	P9			NRF618SR006/02/69820152 / Blotting paper, rags, poly, and misc. waste(Co60, 0.041 Ci)	204	10' West of NE Monument
NRF-618-7H ?	P9			NRF618SR006/05/69800101 / Blotting paper, rags, poly, and misc. waste (Co60, 0.016 Ci)	204	35' SW of NE Monument
NRF-618-7H ?	P9			NRF618SR006/05/69810303 / Blotting paper, rags, poly, and misc. waste (Co60, 0.045 Ci)	204	10' West of NE Monument
NRF-618-7H ?	P10			NRF618SR012/16/68800 / Miscellaneous scrap metal and wood (unknown isotope, 1.5 Ci)	72	250' East & 65' South of NW Monument
NRF-618-7H ?	P10			NRF618SR001/06/69830 / Scrap Metal and Wood (Co60, 5 mCi)	16	275' East & 70' South of NW Monument
NRF-618-7H ?	P10			NRF618SR001/10/69800 / Contaminated scrap metal, wood, and paper (unknown isotope, 13 mCi)	190	250' East & 45' South of NW Monument
NRF-618-7H ?	P10			NRF618SR002/04/69800 / Scrap metal, wood, and paper (unknown isotope, 5 mCi)	190	190' East & 5-10' South of NW Monument
NRF-618-7H ?	P10			NRF618SR003/20/69800 / Contaminated scrap metal and scrap wood (unknown isotope, 2 mCi)	170	305' East & 25' South of NW Monument

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
NRF-618-7H?	P10			NRF618SR003/28/69800 / Contaminated cleanup material (unknown isotope 30 mCi)	204	225' East & 5-10' South of NW monument
NRF-618-7H ?	P10			NRF618SR003/28/69810 / Contaminated clean up material (unknown isotope, 3 mCi)	204	240' East & 15' South of NW Monument
NRF-618-7H ?	P10			NRF618SR003/31/69810 / Contaminated metal and wood (unknown isotope, 3 mCi)	200	370' East & 70' South of NW Monument
NRF-618-7H ?	P10			NRF618SR004/11/69800 / Misc. scrap metal, wood boxes (contaminated) (unknown isotope, 0.002 Ci)	180	375' East & 75' South of NW Monument
NRF-618-7H ?	P10			NRF618SR006/02/69830 / Scrap lumber & wp hardware (unknown isotope, 0.3 Ci)	200	120' East & 55' North of SW Monument
NRF-618-7H ?	P10			NRF618SR006/18/69800 / Plexiglas (unknown isotope, 0.001 Ci)	1000	425' East & 70' south of NW Monument
NRF-618-7H ?	P10			NRF618SR007/31/69800 / Contaminated scrap wood and scrap metal contaminated clean up material (unknown isotope, 0.002 Ci)	135	490' East & 30' North of NW Monument
NRF-618-7H ?	P10			NRF618SR008/07/69810 / Unreadable, RWMIS: metal comp (unknown isotope, 2 mCi)	81	495' East & 40-60' South of NW Monument
NRF-618-7H ?	P10			NRF618SR008/26/69810 / 2 gallons of dirt, mop truing and similar solids, principal isotope Co60 (unknown isotope, 0.25 Ci)	175	355' East & 65' North of SW-2 Monument
NRF-618-7H ?	P10			NRF618SR008/27/69800 / Washing machine and scrap metal and lumber (unknown isotope, 0.007 Ci)	135	235' East & 35' North of SW-2 Monument
NRF-618-7H ?	P10			NRF618SR008/29/69810 / Celite cake Excess moisture absorbed using Fullers Earth: principal isotope Co60 (unknown isotope, 0.025Ci)	60	335' East & 25' North of SW-2 Monument
NRF-618-7H?	P10			NRF618SR009/02/69820 / Potentially contaminated scrap metal (unknown isotope, <0.00001)	90	550' East & 90' South of NW Monument

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
NRF-618-7H ?	P10			NRF618SR009/09/69800 / Junk, wood, metal scrap (unknown isotope 0.010 Ci)	351	310-325' East & 50' North of S/W-2 Monument
NRF-618-7H ?	P10			NRF618SR009/15/69820 / Contaminated waste wood, metal scraps (unknown isotope, 0.03 Ci)	351	560' East & 60' South of NW Monument
NRF-618-7H ?	P10			NRF618SR010/13/69810 / Scrap metal wrapped in yellow poly and miscellaneous clean up material (unknown isotope, 5 mCi)	270	630-650' East & 0-10' South of NW Monument
NRF-618-7H ?	P10			NRF618SR010/17/69800/ Scrap metal wrapped in yellow poly (Co60, 0.03 Ci)	270	650' East & 15' South of NW Monument
NRF-618-7H ?	P10			NRF618SR010/31/69800 / Contaminated clean-up material, scrap metal etc. (unknown isotope, 0.03 Ci)	270	455-470' West & 55-65' South of NE Monument
	P10			NRF618SR011/05/68800/ Contaminated ladders, obsolete equipment, unreadable, contaminated waste containers (unknown isotope 2.0 Ci)	900	30' East and 20' North of S/W-2 Monument
NRF-618-7H ?	P10			NRF618SR011/17/69820 / Contaminated clean up material, 2 unreadable (unknown isotope, 10 mCi)	270	425' West & 80' South of NE Monument
NRF-618-7H ?	P10			NRF618SR012/04/69820 / Low level contaminated material in wooden boxes and ss tank (unknown isotope, 0.002 Ci)	1400	425' West & 60' South of NE Monument
NRF-618-7H ?	P10			NRF618SR012/19/69830 / scrap metal - pipe, sundry units console, electrical unreadable (Co-60 0.025 Ci)	56	400' West & 5 - 15' South of N/E Monument
NRF-618-7H ?	P10			NRF618SR001/08/70840 / Contaminated metal and wood and cleanup material (unknown isotope, 0.006 Ci)	288	400' West & 60' South of NE Monument
NRF-618-7H ?	P10			NRF618SR001/15/70800 / Blotting paper, rags, poly, and miscellaneous waste (Co60, 0.035 Ci)	204	330' West & 20' North of SE Monument
NRF-618-7H ?	P10			NRF618SR001/30/70800 / Miscellaneous scrap metal and wood (unknown isotope, 3 mCi)	189	380' West & 60' South of NE Monument

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
NRF-618-7H ?	P10			NRF618SR002/11/70800 / m-130 piping, 2 cabinets, gear box, unistrut pieces, wooden pallet, tarp (Co60, 0.02 Ci)	25	375' West & 55' South of NE Monument
NRF-618-7H ?	P10			NRF618SR002/17/70810153 / Wood and metal covered by poly (unknown isotope, 2 mCi)	200	325' ?
NRF-618-7H ?	P10			NRF618SR002/19/70840 / Metal and wood (unknown isotope, 0.001 Ci)	100	360' West & 10' South of NE Monument
NRF-618-7H ?	P10			NRF618SR003/02/70850 / Poly covered metal (Co60, 20 mCi)	600	360' West & 60' South of NE Monument
NRF-618-7H ?	P10			NRF618SR004/27/70830 / Misc. scrap material (Co-60, .05 mCi)	270	325' West & 75 South of NW Monument
NRF-618-7H ?	P10			NRF618SR004/29/70810 / Metal and wood (Co60, 0.01 Ci)	176	320-330' West & 70' South of NE Monument
NRF-618-7H ?	P10			NRF618SR006/06/70800 / Metal, wood, poly, stainless steel, cardboard (Co-60 0.04 Ci)	270	320-330' West & 20' South of NE Monument
NRF-618-7H ?	P10			NRF618SR006/11/70840 / Carbon steel w/ Heresite lining, 1200 gal. Hold up tank (empty), Internally contaminated (unknown isotope, 0.05 Ci)	135	125-135' West & 50-60' South of NE Monument
NRF-618-7H ?	P10			NRF618SR006/11/70850 / Carbon steel w/ Heresite lining, 1200 gal. Hold up tank (empty), Internally contaminated (unknown isotope, 0.05 Ci)	135	125-135' West & 50-60' South of NE Monument
NRF-618-7H ?	P10			NRF618SR007/06/70810 / Carbon steel tank internally contaminated (Co60, 45 mCi)	600	290-305' West & 65-75' South of NE Monument
NRF-618-7H ?	P10			NRF618SR007/13/70810 / Carbon steel tank internally contaminated (unknown isotope, 0.004 Ci)	600	300-315' West & 50-60' South of NE Monument
NRF-618-7H ?	P10			NRF618SR007/13/70820 / Contaminated cleanup material, wood, metal etc (unknown isotope, 0.0015 Ci)	216	230' West & 10' South of NE Monument

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
NRF-618-7H ?	P10			NRF618SR007/20/70830 / Contaminated waste, wood poly, etc. (unknown isotope, 0.04 Ci)	216	325' West & 45' South of NE Monument
NRF-618-7H ?	P10			NRF618SR007/22/70810 / Metal and wood (unknown isotope, 0.002 Ci)	400	210-225' West & 35-50' South of NE Monument
NRF-618-7H ?	P10			NRF618SR007/31/70800 / Scrap metal, wood, etc. (Co60, 0.005 Ci)	200	325' West & 80' South of NE Monument
NRF-618-7H ?	P10			NRF618SR008/12/70800 / Wood and metal scrap (Co60, 0.03 Ci)	100	325' West & 70' South of NE Monument
NRF-618-7H ?	P10			NRF618SR009/04/70820405 / Paper, poly, rags, etc. (Co60, 0.004 Ci)	204	Unknown
NRF-618-7H ?	P10			NRF618SR009/08/70830202 / Metal ducts (Co60, 0.002 Ci)	204	Unknown
NRF-618-7H ?	P10			NRF618SR009/09/70810 / Metal duct work (Co-60 0.0020 Ci)	300	Unknown
NRF-618-7H ?	P10			NRF618SR009/17/69810 / One empty 2000 gal carbon steel tank internally contaminated (Co60, 0.005 Ci)	400	345' East & 65' North of SW-2 Monument
NRF-618-7H ?	P10			NRF618SR009/18/70810 / Poly wrapped metal (Co60, 0.005 Ci)	750	Unknown
NRF-618-7H ?	P10			NRF618SR009/24/70820501 / Duct work, miscellaneous equipment (Co60, 0.001 Ci)	320	Unknown
NRF-618-7H ?	P10			NRF618SR009/28/70830501 / Duct work (Co60, 0.001 Ci)	320	Unknown
NRF-618-7H ?	P10			NRF618SR009/29/70800500 / Duct work (Co60, 0.001 Ci)	320	Unknown
NRF-618-7H ?	P10			NRF618SR009/29/70810303 / Concrete floor and lumber (Co60, 0.075 Ci)	100	Unknown
NRF-618-7H ?	P10			NRF618SR009/30/70810500 / Duct work and lumber (Co60, 0.001 Ci)	320	Unknown
NRF-618-7H ?	P10			NRF618SR009/30/70820500 / Duct work (Co60, 0.001 Ci)	300	Unknown
NRF-618-7H ?	P10			NRF618SR010/07/70810 / Metal and wood (Co60, 0.001 Ci)	300	315' West & 66' South of NE Monuments
NRF-618-7H ?	P10			NRF618SR010/15/70840/Contaminated metal and wood, 2 constant air monitors (Co-60, 0.002 Ci)	50	315' West & 20' South of NE Monument

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
NRF-618-7H ?	P10			NRF618SR010/15/70850 / One internally contaminated pump (Co60, <0.0001 Ci)	5	315' West & 20' South of NE Monument
NRF-618-7H ?	P10			NRF618SR010/15/7084051 / Contaminated scrap metal and wood, 2 constant air monitors (CAMs) EC-370 and EC-371 (Co-60, 0.002 Ci)	50	315' West & 20' South of NE Monument
NRF-618-7H ?	P10			NRF618SR010/26/70810 / Poly covered metal (Co60, 0.001 Ci)	243	315-330' West & 40-60' South of NE Monument
NRF-618-7H ?	P10			NRF618SR010/26/70820 / Poly covered metal and wood (Co60, 0.002 Ci)	189	300-320' West & 80-120' South of NE Monument
NRF-618-7H ?	P10			NRF618SR010/26/70830 / Ductwork and piping (Co60, 0.008 Ci)	300	320' West & 50' South of NE Monument
NRF-618-7H ?	P10			NRF618SR010/28/70800 / Stainless steel storage tank (Co60, <1 mCi)	1604	290-315' West & 10-40' South of NE Monument
NRF-618-7H ?	P10			NRF618SR011/20/70800 / Potentially contaminated scrap metal (scrap metal with inaccessible areas that cannot be surveyed) (Co60, <0.0001 Ci)	108	315-320' West & 30-40' South of NE Monument
NRF-618-7H ?	P10			NRF618SR012/11/70800 / Poly, wood, metal, scrap (Co60, 0.05 Ci)	150	285' West & 100' South of NE Monument
NRF-618-7H ?	P10			NRF618SR001/25/7142 / Lumber, misc. bolts and nuts (Co60, 0.001 Ci)	150	250-285' West & 80-100' South of NE Monument
NRF-618-7H ?	P10			NRF618SR002/05/7167 / Contaminated wood, poly, piping, blotting paper (items are wrapped in poly) (Co60, 0.05 Ci)	200	285-310' West & 10-30' South of NE Monument
NRF-618-7H ?	P10			NRF618SR002/26/71127 / Contaminated scrap metal (Co60, 0.002 Ci)	100	300-315' West & 50-60' South of NE Monument

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
NRF-618-7H ?	P10			NRF618SR004/01/71221 / Stainless steel, poly (Co60, 0.2 Ci)	2400	280-310' West & 10-50' South of NE Monument
NRF-618-7H ?	P10			NRF618SR004/08/71240 / Scrap carbon steel tubing, scrap lumber, & misc. items- rags, poly & tooling (Co60, 0.008 Ci)	290	280-300' West & 40-60' South of NE Monument
NRF-618-7H ?	P10			NRF618SR005/19/71143 / Contaminated soil (Co60, 1.00E-04 Ci: Co58, 9.00E-04 Ci)	300	275' West & 10' South of NE Monument
NRF-618-7H ?	P10			NRF618SR005/21/71900 / Contaminated soil (Co60, 6.00E-04 Ci: Co58, 4.00E-04 Ci)	200	280' West & 80' South of NE Monument
NRF-618-7H ?	P10			NRF618SR005/25/71900 / Contaminated duct work (Co60, 1.00E-04 Ci)	200	275' West & 60' South of NE Monument
NRF-618-7H ?	P10			NRF618SR006/01/71144 / General plant waste (Co60, 6.00E-03 Ci)	30	270' West & 30' South of NE Monument
NRF-618-7H ?	P10			NRF618SR006/07/71130 / Contaminated piping (Co60, 1.00E-04 Ci)	200	275' West & 5' South of NE Monument
NRF-618-7H ?	P10			NRF618SR006/09/71123 / Contaminated piping (Co60, 1.00E-04 Ci)	100	275' West & 65' South of NE Monument
NRF-618-7H ?	P10			NRF618SR006/14/71140 / Metal scrap (Co60, 1.00E-02 Ci)	160	270' West & 80' South of NE Monument
NRF-618-7H ?	P10			NRF618SR006/25/71840 / Poly covered solid waste (Co60, 3.60E-02 Ci)	240	270' West & 70' South of NE Monument
NRF-618-7H ?	P10			NRF618SR007/01/71111 / Contaminated soil and duct (Co60, 1.00E-04 Ci)	590	270' West & 60' South of NE Monument
NRF-618-7H ?	P10			NRF618SR007/07/71830 / Contaminated ducting (Co60, 1.00E-04 Ci)	300	270' West & 10' South of NE Monument

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
NRF-618-7H ?	P11			NRF618SR009/15/70810 / 5 55 gallon drums containing unreadable contaminated with transuranics? (unknown isotope . 0.094 Ci)	40	219-222' East & 16-30' North of S/W Monument
NRF-618-7H ?	P12			NRF618SR007/07/70820 / 4- 55gal drums containing items contaminated with transuranics elements to contain < 0.5 gm of unirradiated fuel and associated FP's (fission products 0.15 Ci)	29	15' East and 10' South of NW Monument
NRF-633-1H				NRF-633 A, B S5G Buildings - Low-level compactable & non-compactable waste, resulting from operation of the S5G reactor. Most was probably particulate with occasional large metal valve or other reactor system component. (1965 - 1983) (610 m3) This waste stream is listed in the HDT.	21542	
NRF-633-1H ?	P10			NRF633SR003/09/7080000 / Miscellaneous wood, paper & poly scrap (unknown isotope, <0.001 Ci)	100	Station 2+50 SW
OFF-AEF-1H				Scrap metal, combustibles, glass, and concrete. (1961 - 1961) (791.42 m3) This waste stream is listed in the HDT. It is the only waste stream for this source.	24,406	
OFF-AEF-1H	P2			OFFAEFSR103/08/618002000 / 147 55-gal drums containing vermiculite. 29 unknown containers containing vermiculite. 714 55-gal drums containing paper equipment. 999 55-gal drums containing paper equipment. 999 55-gal drums containing paper equipment. 35 wooden boxes containing rad waste nos. 124 55-gal drums containing metal drums. 303 55-gal drums containing solidified liquid. 23 wooden boxes containing rad waste nos. 2 unknown containers containing paper equipment. 10 unknown containers containing paper equipment.	27949	Begin at a point 45' W & 20' N of the SE pit marker, running 21' W & 78' N Begin at a point 547' W & 63' N of the SE pit marker, running 39' W & 63' N Begin at a point 108' N & 586' W of the SE pit marker, running 87' W & 12' N

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
OFF-AEF-1H	P2			OFFAEFSR105/11/6180010 / 147 55-gal drums containing containers formerly held liquid waste and sludge. Liquids and sludge were emptied out. Absorbent material (aqua gel) was placed into drums to assure complete lack of liquids. (Unknown weight for mixed fission products; curie amount <0.135 mc per drum (14 mc total))	1232	Begins at a point 102' W & 30' N from the SE pit marker. Run 65' N & 3' W, burial row #33.
OFF-AEI-1H		Lead - 39473 lb Cerium Chloride -1123.5 lb	39473 lb 1123.5 lb	Radiation sources, lab waste and solidified Ce-144/C13 solution. 13 metal drums with waste contained in concrete & Pb. (1961 - 1961) (10.42 m3) This waste stream is listed in the HDT. It is the only waste stream for this source.	368	
OFF-AEI-1H	P2	Lead Cerium Chloride	?? ??	OFFAEISR103/01/61800150 / 13 55-gal barrels contain unused sources of cobalt-60 and cerium-144-Pr-144 encased in concrete and lead. 37 55-gal barrels contain contaminated laboratory equipment and waste or contaminated asphalt and soil. (Unknown weight for Ce144, Pr144, Co60, Sr90, Yr90, Kr85, Cs137; curie amount Co60 - 4.1 curies; Ce144 & Pr144 - 0.9 curies; Kr85 - 1.3, Cs137 - 0.013 curies; Sr90 & Yr90 - 1 micro-curie.)	368	31 Barrels begin at a point 84' W & 45' N of SE pit marker. Runs 25' N - Barrel Row # 24. 19 Barrels begin at a point 87' W & 78' N of SE marker. Runs 15' N. Barrel Row # 25.
OFF-ATI-1H		Lead - Unk (PUL <E+02 kg) Beryllium - Unk (PUL 4400 kg) Sodium - Unk (No est.) Beryllium Oxide - Unk (See Be) Sodium/Potassium - Unk (ULE likely small) Mercury - Unk (PUL <E+02 kg) Lithium Hydride - Unk (No est.)	Unk(PUL <E+02 kg) Unk(PUL 4400 kg) Unk(No est) Unk(See Be) Unk(ULE likely small) Unk(PUL <E+02 kg) Unk(No est)	Irradiated fuel and chemical by-products from nuclear reactor research. (Notes indicate that very little, if any, hazardous waste was actually shipped to INEL). (1960 - 1962) (1390.49 m3) This waste stream is listed in HDT. It is the only waste stream for this source.	49,104.7 0	
OFF-ATI-1H	P2	Beryllium oxide		OFFATISR107/14/60800NA / Unknown number of containers containing mixed fission products. Contains Beryllium Oxide. (Unknown isotope; 0.005 total curies)	~1,949.5	See map in shipping document for location

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
OFF-ATI-1H	P2	Beryllium oxide		OFFATISR107/14/6081000 / 26 Wooden boxes, 14' x 3' 4" x 4' 1" containing radioactively contaminated sheet metal and ducting: 1mc mixed fission products (MFP) per box. 2 wooden boxes, 14' x 3' 8" x 4' 1" containing BeO contaminated ducting and sheet metal. 1 wooden box, 16' 6" x 5' 10" x 5' 10" containing radioactively contaminated ductwork 1 mc MFP. 1 wooden box, 6' 0" x 9' 0" x 7' 8" containing radioactively contaminated ductwork 1 mc MFP. Contaminated material has been wrapped in polyethylene and sealed with tape before being placed in the boxes. (Mixed Fission Products; Each package has <0.00135 total curies)	6844.3	See map in shipping document for location2.
OFF-ATI-1H	P2	Beryllium oxide		OFFATISR107/14/608200 / 26 wooden boxes, 14' x 3' 8" x 4' 1" containing radioactively contaminated sheet metal and ducting: 1 mc mixed fission products (MFP) per box. 2 wooden boxes, 14' x 3' 8" x 4' 1" containing BeO contaminated ducting and sheet metal. 1 wooden box 16' 6" x 5' 10" x 5' 10" containing radioactively contaminated ductwork; 1mc MFP. 1 wooden box, 6' 0" x 9' 0" x 7' 8" containing radioactively contaminated ductwork; 1mc MFP. . Contains Beryllium Oxide. (Mixed Fission Products; Each package has <0.00135 total curies)	6844.3	See map in shipping document for location
OFF-ATI-1H	P2	Beryllium oxide		OFFATISR107/18/608000 / 11 wooden boxes containing radioactively contaminated sheet metal and ducting. 1 wooden box containing BeO contaminated filter housing. 1 wooden box containing BeO contaminated bag filters. 1 wooden box containing BeO contaminated roto-clone. 6 wooden boxes containing radioactively contaminated filter housings. 1 wooden box containing radioactively contaminated fume housing. 2 wooden boxes containing one radioactively contaminated fume hood. 1 wooden box containing BeO and radioactively contaminated hyranlic press. 1 wooden box containing BeO contaminated lab waste material. 1 wooden box, containing radioactively contaminated sheet metal, ducting, and blower. (Mixed Fission Products; Each package has <0.00135 total curies)	6879.4	See map in shipping document for location
OFF-ATI-1H	P2	Beryllium oxide		OFFATISR107/18/608100 / Unknown number of containers containing mixed fission products. Contains Beryllium Oxide. (Unknown isotope; 0.008 total curies)	~1,880	See map in shipping document for location

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
OFF-ATI-1H	P2	Beryllium oxide		OFFATISR107/18/608200 / Unknown number of containers containing mixed fission products. Contains Beryllium Oxide. (Unknown isotope; 0.009 total curies)	~2,150	See map in shipping document for location
OFF-ATI-1H	P2	Beryllium oxide		OFFATISR107/18/608300 / Unknown number of containers containing mixed fission products. Contains Beryllium Oxide. (Unknown isotope; 0.004 total curies)	~1,550	See map in shipping document for location
OFF-ATI-1H	P2	Beryllium oxide		OFFATISR107/20/608000 / 100 55-gal drums (radioactive material, nos tile, metal and lab trash) 1 mc MFP per drum. 1 wooden box, 14' x 3' 8" x 4' 1" Box contains Beryllium Oxide. (Unknown isotope; Each package has <0.00135 total curies)	944	Row 19 (west end) 20 (east end)
OFF-ATI-1H	P2	Beryllium oxide		OFFATISR107/20/608100 / 29 55-gal drums radioactive material, nos (tile, metal and lab trash) 1 mc per drum. Associated hazards: Beryllium oxide (Mixed Fission Products; Each package has <0.00135 total curies)	213	Row 20 (east end)
OFF-ATI-1H	P2	Beryllium		OFFATISR111/28/60800200 / 124 55-gal drums containing unknown contents, "may contain beryllium in microgram quantities" (Unknown weight of mixed fission products; <2.7 curies per container)	918	Rows 31, 32, 33, 34; North from monument 155 to 165 ft, West 35 to 80 ft
OFF-ATI-1H	P2	Lead Beryllium	?? ??	OFFATISR104/26/61800200 / 136 55-gal steel drums of compressed dry waste. The waste is covered with a concrete cap. 4 55-gal drums are similar to the above, except the contents are a lead cask surrounded by concrete. 2 55-gal drums contain a lead cask. The cask is surrounded on all sides with concrete. The container has a lock on steel lid. 55 conduits, 3' diameter x 4' height or 4' dia. x 4' high. The conduits contain a 30-gal. drum or other primary container surrounded by concrete. 1 wooden box containing a wash trough centered in the box and surrounded by reinforced concrete. 2 55-gal drums packaged similar to above except contents are solidified liquid waste. 8 55-gal drums with permanent lids containing bungs. The packages are filled with solidified liquid waste. 33 55-gal drums of solidified liquid waste which is SS accountable. 181 55-gal drums containing compressed dry waste. 20 wooden containers containing dry waste. (Unknown weight for Mixed Fission Products, SS Material, Beryllium; 25.41 total curies)	7754	Begins at a point 115' W & 50' N from SE pit marker. Runs 50' N, 120' W, 25' S, 100' E, 25' S, 20' E to Beginning

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
OFF-ATI-1H	P2	Lead		OFFATISR104/26/6181020022 / 31 55-gal steel drums containing a lead cask surrounded by concrete. The concrete is covered with a steel lid and the lip of the drum is crimped to retain the lid. 6 55-gal drums (ICC 6-C) containing a lead cask surrounded by concrete. The lid is a steel lock on type. 11 Conduits - 3' diameter x 4' height or 4' x 4'. The conduits contain a 30 gallon drum or other primary container enclosed in concrete. (Unknown weight for Mixed Fission Product; 11,533.58 total curies)	713	Begins at a point 115' W & 50' N from SE pit marker. Runs 50' N, 120' W, 25' S, 100' E, 25' S, 20' E to Begin
OFF-ATI-1H	P2	Lead Beryllium	?? ??	OFFATISR108/07/618002000 / 299 55-gal steel drums containing compressed dry waste. 77 Wooden boxes of various dimensions containing dry waste. 27 Conduits - 3' diameter x 4' height or 4' diameter x 4' height. Conduits contain 30 gal drum or other primary container encased in concrete. 10 55-gal drum - contains a lead pig encased in concrete. 9 Wooden boxes filled with concrete. 22 inches square by 103 inches long. Contains dry waste. 1 6 x 6 cask. Steel shell containing high density concrete. Package contains SNAP reactor shield plug including Plutonium-Beryllium source. 12 55-gal. drum - contain compressed dry waste. Waste is covered by a concrete cap. 1 55-gal. drum - contain compressed dry or solidified liquid waste which is SS accountable. (Unknown weight for Mixed Fission Products, U-235, Beryllium, Plutonium-Beryllium source; 7751 total curies)	10262	Begin at a point 200' W & 20' N from SE pit marker run 60' N & 6' W also 215' W & 20' N from marker run 60' N & 3' W. Boxes at 197' W & 0' N run 20' N & 18' W also at a point 218' W & 45' N run 30' N & 90' W.
OFF-ATI-1H	P2	Lead		OFFATISR112/01/6180020022 / 55-gal steel drums containing compressed dry waste. Wooden Boxes of various dimensions containing dry waste. Conduits 3' diameter x 4' height or 4' x 4' containing 30 gallon drum or other primary container encased in concrete. 55 gallon drum containing a lead pig encased in concrete. (C-81, C-237) Dry waste encased in a concrete filled wooden box. 55 gallon drum-contains solidified liquid waste covered by concrete cap. 55-gal steel drums containing S.S. Materials. (Unknown weight for Mixed Fission Products, U-235, U-238, Thorium, Beryllium; 801 total curies)	10984	Begin 18' W & 0' N from SE pit marker fun 18' W & 20' N. Begin 54' W & 0' N run 120' W & 20' N. Begin 303' W & 20' N run 6' W & 30' N. Begin 333' W & 20' N run 39' W & 25' N

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
OFF-ATI-1H	P2	Lead	??	OFFATISR110/03/6280060 85 55-gal drums which contain compressed dry or solidified SS accountable liquid radioactive by-product waste materials. 55 Conduits - packages are 3 ft. dia. By 4 ft. long pipe sections. Each contains a lead wrapped 30 gallon drum, encased in reinforced concrete. These packages contain dry radioactive by-product waste materials. 6 Boxes - packages are concrete boxes containing dry radioactive by-product waste materials surrounded by concrete containing steel reinforcing bars. 33 55-gal drums which contain dry radioactive by-product waste materials in lead inner container encased in steel reinforced concrete. (Unknown weight for MFP, U-235, Th, Pu; 2200.3 total curies)	2522.5	300' East of West Pit marker and 240 - 360' East of West Pit marker
OFF-BWC-1H				Empty stainless steel fuel rods. (1960 - 1960) (15.63 m3) This waste stream is listed in the HDT. It is the only waste stream for this source.	552	
OFF-BWC-1H	P2			OFFBWC111/01/6080010 / Stainless steel pins (empty) packaged in ring closure 55-gal drums. Eight (8) of these drums were modified to take a longer pin and are 8 feet high. (93% U235, Th232; 0.03 total curies)	555	Row 36, 148 to 150 ft North of monument, 70 to 125 ft West
OFF-CSC-1H				Lab equipment, animal carcasses & feces. (1962 - 1963) (28.76 m3) This waste stream is listed in the HDT. It is the only waste stream from this source.	1015.65	
OFF-CSC-1H	P2			OFFCSCSR101/16/62800180 / 17 cardboard boxes each containing an ICC approved container of waste papers, towels, glassware, tools and similar laboratory items. All waste materials sealed inside double plastic bags. (Unknown weight for Cs-137; <0.2 total curies)	85	Begin at a point 421' W & 1' N from SE pit marker; run 8' W & 4' N
OFF-CSC-1H	P2			OFFCSCSR109/21/62800150 / 13 55-gal drums and 4 cardboard boxes containing an ICC approved container of waste papers, towels, glassware, tools, animal carcasses and misc. laboratory items. All waste material in cardboard boxes sealed inside plastic bags. Animal carcasses are packaged in slaked lime. Drums are provided with steel covers, properly gasketed, and secured to the drum body by bolted locking ring closure. (Unknown weight for Cs-137, I-131, Rb-86, C-14, Se-75, Cr-51; 0.164 total curies)	115.5	360' E of W pit marker

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
OFF-CSC-1H	P2			OFFCSCSR104/19/6380060 / 18 55-gal drums containing ICC approved containers of waste papers, towels, glassware, tools, animal carcasses and misc. laboratory items. All waste material in cardboard boxes, sealed inside plastic bags. Animal carcasses (feces) are packaged in slaked lime. Drums are provided with steel covers, properly gasketed, and secured to the drum body by bolted locking ring closure. (Unknown weight of I131, Cr51, C14, Fe54, Sr169, S35, H3, Yb169, P32, Tm170, Fe59; 0.044 total curies)	141.3	75' East of West marker
OFF-CSC-1H	P3			OFFCSCSR106/15/62800160 / 7 55-gal drums and, (2) cardboard boxes, each package consists of an ICC approved container of waste papers, towels, glassware, tools, animal carcasses and misc. laboratory items. All waste material in cardboard boxes sealed inside plastic bags; animal carcasses packed in slacked lime. Misc. chlorides, nitrates, and sulphates, Cs-137, C-14, Co-60, Sr-90, 0.096 Ci	61.5	Begin at a point 60' North & 55' East of SW Pit Marker. Run 10' East & 4' South.
OFF-CSC-1H	P4			OFFCSCSR101/21/63800 / 9 55 gal drums and 4 boxes containing waste papers, towels, glassware, tools, animal carcasses and misc. laboratory items. C-14, I-131, S-35, U-235, Fe-59, P-32, .091 Ci,	84	270' East of West Pit Marker
OFF-CSC-1H	P4			OFFCSCSR107/31/63800 / 33 packages consist of an ICC approved container of waste papers, towels, glassware, tools, animal carcasses, and misc. laboratory items. 34 only 55 gal drums each containing one 30 gal drum ICC 17H surrounded by concrete with 3/8" reinforcing steel. Misc. chlorides, nitrates, and sulphates. Na-22, Pm-147, Co-60, Ru-106, Fe-59, Po-210, Cs-137, Sr-90, H-3, P-32, Cd-109, C-14, Tm-170, S-35, Er-169, Y-90, 2.745 Ci	526	1+ 90 from West end 0 to 1 + 00 from North side
OFF-CSM-1H	P3	Magnesium Fluoride - 300 lb	300 lb*	Magnesium fluoride slag with 1% natural U, steel metallic salts & silicates, and misc. laboratory waste. Other, irradiated rock samples & some glassware lab waste & rock samples in double drums. (1960 - 1962) (22.6 m3) This waste stream is listed in the HDT. It is the only waste stream for this source.	798.1	
OFF-CSM-1H	P3			OFFCSMSR110/30/6280070 / 2-Steel barrels (22 x33) containing reactor irradiated silicate rock samples, contaminated paper, glassware, and laboratory apparatus contaminated with reactor activated silicate rock samples and purified reactor produced radioisotopes. (Co-60, Fe-55, Fe-59, Mo-99, Cs-137, < 5 Ci)	14.6	10 yds. West & 5 yds. North of SE pit marker

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
OFF-DPG-1H				Animal waste & laboratory waste. (1960 - 1962) (25.88 m3) This waste stream is listed in the HDT. It is the only waste stream for this source.	913.9	
OFF-DPG-1H	P3	Lead	??	OFFDPGSR107/15/6280011010 / 5 wooden boxes containing lead and scrap metal. (Unknown weight for Co60 and P32, 510 curies) *15 barrels are listed on same invoice, but with different location. Listed under document ID OFFDP6SR107/15/6281011010. RWMIS: 2 wood boxes lead, 3 wood boxes metal scrap.	300	100' North & 30' West of SE #3 pit marker.
OFF-DPG-1H	P2			OFFDPGSR110/17/60800255 / 70 55-gal drums containing concreted waste. 12 55 gallon drums containing waste material packed in sand. 1 wooden box containing 6 electron tubes. 1 small metal container containing old check sources. Drums contain old compasses, metascopes, switchboards, electron tubes. (Unknown weights for Ra226, Po210, Sr90, Co60; <10 total curies)	597	Rows 43, 44, 45 & 46, 85 ft North of monument and 50 ft West
OFF-DPG-1H	P3			OFFDPGSR107/15/6281011010 / 15 barrels containing vermiculite, animal feces, paper, metal, wood and concrete masonry. (Unknown weight for Co60 and P32, 510 curies) * 5 wooden boxes are listed on same invoice, but with different pit location. RWMIS: 1 bbl vermiculite, 1 bbl animal feces, 3 bbl paper, metal wood, 10 bbl concrete masonry. Listed under document ID OFFDP6S	300	Begin at a point 100' North & 60' West of SE #3 Pit Marker. Run 15' West & 3' South.
OFF-GDA-1H		Nitric Acid - 1544 lb	1544 lb*	Fuel fabrication items, lab equipment, activated metal and irradiated fuel. TRU & LLW are both part of the waste stream. Shipping records indicate nitric acid in cement was shipped along with organic solidified waste in capsule. Nature of organic waste cannot be determined. (1961 - 1963) (714.82 m3) This waste stream is listed in the HDT.	25243.6	

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
OFF-GDA-1H	P2	Nitric Acid ?		OFFGDASR105/20/61800200 / 220 55-gal drums and 12 wooden boxes containing shoe covers, clothing, towels, hand towels, industrial wipes, scrap metal, scrapwood, scrap glass, fiber glass filters, acid solidified in Portland cement. Dirt, cement and liquids solidified in plaster. Loose material pressure packed in steel drums or loose packed in wood crates. (Unknown weight for U-235, U-238, Co-60, ?? And Mixed Fission Products; curie amount <1)	2693	Begins at a point 100' W & 20' N from SE Pit marker run 60' N & 6' W. Burial Row # 33 & 34. Boxes begin at a point 133' W & 75' N from SE Pit marker run 33' W & 11' N.
OFF-GDA-1H	P2	Nitric Acid ?		OFFGDASR110/10/62800200 / 140 55-gal drums containing dry, solid state waste, shoe covers, towels, wood, industrial wipes, fiberglass filters, acid solidified and neutralized in cement, scrap metal and glass. (Unknown weight for U-235, U-238, Th-232, Co-60 and mixed fission products; <1 total curie)	1050	330' E of W pit marker
OFF-GDA-1H	P2	Nitric Acid ?		OFFGDASR111/15/62810200 / 100 55-gal drums containing dry, solid state waste, shoe covers, towels, wood, industrial wipes, fiberglass filters, acid solidified and neutralized in cement, scrap metal and glass. Items loose pressure packed in drums. (Unknown weight for U-235, U-238, Th-232, Co-60 and mixed fission products; <1 total curie)	750	285' E of W pit markers
OFF-GDA-1H	P2	Nitric Acid ?		OFFGDASR112/18/62820200 / 80 55-gal drums containing dry, solid state waste, shoe covers, towels, wood, industrial wipes, fiberglass filters, acid solidified and neutralized in cement, scrap metal and glass. (Unknown weight for U-235, U-238, Th-232, Co-60 and mixed fission products; <1 total curie)	600	240' E of W pit marker
OFF-GDA-1H	P2	Nitric Acid ?		OFFGDASR104/30/63800200 / 160 55-gal drums containing low level waste dry solid state - shoe covers, towels, industrial wipes, filters scrap metal and glass - acid neutralized and solidified in Portland cement and vermiculite. (10g of U235, unknown weight for U-238, Th-232, Co-60, and mixed fission products; 0.20 curies)	1200	95' East of the West pit markers

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
OFF-GDA-1H	P3	Nitric Acid ?	??	OFFGDASR104/30/628005 / 120 55-gal drums containing dry, solid state waste shoe covers, towels, wood, industrial wipes, fiberglass filters acid solidified and neutralized in cement, scrap metal and glass. (Unknown weight for: U235, U238, Co60, Th232 and mixed fission products, < 0.5 Ci)	900	Begin at point 185' South & 0' East from NW pit marker. Run 9' South & 90' East
OFF-GDA-1H	P3	Nitric Acid ?	??	OFFGDASR106/28/62800200 / 70 55-gal drums containing dry, solid waste, shoe covers, towels, wood, industrial wipes, fiberglass filters, acid solidified and neutralized in cement, scrap metal and glass. Item loose pressure packed in drums. (Unknown weight for: U235, U238, Co-60, Th-232 < 1 Ci)	525	Begin at a point 328' South of NW #3 trench marker. Run 60' East & 6' South.
OFF-GDA-1H	P4	Nitric Acid ?		OFFGDASR101/22/63800 / 60 55 gal. drums with dry, solid state waste, shoe covers, towels, wood, industrial wipes, fiberglass filters, acid solidified and neutralized in cement, scrap metal and glass (U-235, U-238, Th-232, Co-60, MFP, < 1 Ci)	450	270' East of West Pit Marker
OFF-GDA-1H	P4	Nitric Acid		OFFGDASR108/05/63800 / Low level waste, dry solid state - shoe covers, towels, industrial wipes, filters, scrap metal, glass and scrap wood and nitric acid neutralized and solidified in Portland cement (Depleted U, traces U-235, U-238, Th-232, Co-60, < 200 mCi, RWMIS: 800 mCi)	1050 (RWMIS : 1368)	1+80 from West end, 0+75 from North side (RWMIS: this only) 1+85 from West end, 0 to 0+60 from North side
OFF-GDA-1H	P4	Nitric Acid		OFFGDASR108/05/63810 / Low level waste, dry solid state - shoe covers, towels, industrial wipes, filters, scrap metal, glass and scrap wood and nitric acid neutralized and solidified in Portland cement (Depleted U, traces U-235, U-238, Th-232, Co-60, < 200 mCi)	1050 (RWMIS : 710.5)	1+80 from West end, 0+75 from North side 1+85 from West end, 0 to 0+60 from North side (RWMIS: this only)
OFF-GDA-1H	P2			OFFGDASR103/28/61800303 / 72 55-gal drums containing contaminated solid waste. Shoe covers, gloves, lab coats, paper towels, etc. compressed into 55-gal drums and sealed. (Unknown isotope, <1 total curie)	525.6	Beginning at a point 60' W & 20' N of SE pit marker running 24' N, 6' W, 15' N, 6' W, 20' So, 6' E, 19' So & E 6 to beginning.

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
OFF-GDA-1H	P2			OFFGDASR103/28/6181020022 / 167 55-gal drums of contaminated solid waste: shoe covers, gloves, lab coats, paper towels, etc. compressed into 55-gal drums and sealed. (2) 61 55-gal drums of solid dirt contained in 55-gal drums and sealed. (Unknown isotope, <1 total curie)	1676.4	Beginning at a point 586' W & 63' N from SE pit marker running 39' N, 6' W, 39' S & 6' E to beginning.
OFF-GDA-1H	P2			OFFGDASR108/01/61800200 / 65 55-gal drums and 1 6x6x4 box and 2 4x4x6 boxes containing shoe covers, clothing, towels, hand towels, industrial wipes, scrap metal, wood, glass, fiber glass filters. Dirt, cement and cement solidified in plaster. Loose material pressure packed in steel drums or loose packed in wooden boxes. (Unknown weight for U-235, U-238, Co-60, Th-232, and mixed fission products; <1 total curies)	860	Begins at a point 164' W & 54' N from SE Pit marker run 36' N & 3' W. Burial row # 53. Boxes begin at a point 215' W & 90' N from SE marker run 15' W & 20' N.
OFF-GDA-1H	P2			OFFGDASR109/20/61800200 / 80 55-gal drums and 1 5x5x5'4" wooden box containing shoe covers, towels, hand towels, industrial wipes, scrap metal, wood, glass, fiberglass filters. Dirt, cement and cement solidified in plaster. Loose material pressure packed in drums or loose packed in wooden box. (Unknown weight for U-235, U-238, Co-60, Th-232, and mixed fission products; <1 total curies).	742	Begin at a point 206' W & 30' N from SE pit marker run 40' N & 3' W. Burial row # 66. Box at 293' W & 63' N from SE marker.
OFF-GDA-1H	P2			OFFGDASR110/26/61800200 / 45 55-gal drums and 1 wooden box containing shoe covers, towels, hand towels, industrial wipes, scrap metal, wood, glass, fiberglass filters. Dirt, cement and cement solidified in plaster. Loose material pressure packed in drums or loose packed in wooden box. Box dim. 7' x 7' x 7". (Unknown weight for U-235, U-238, Co-60, Th-232, and mixed fission products; <1 total curies)	681	Begin at a point 248' W & 20' N from SE Pit marker run 50' N & 6' W. Burial rows # 80 & 81

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
OFF-GDA-1H	P2			OFFGDASR102/15/62800200 / 120 55-gal drums and 4 wooden boxes containing shoe covers, towels, hand towels, industrial wipes, scrap metal, wood, glass, fiberglass filters. Dirt and cement. Loose material pressure packed in drums or loose packed in wooden boxes. Box dim. 4'x4'x6'. (Unknown weight for U-235, U-238, Co-60, Th-232 and mixed fission products; <1 total curie)	1242	Barrels begin at a point 610' W & 40' N from SE pit marker; run 15' W & 20' N, also at 705' W & 50' N run to 725' W. Boxes at 770' W & 60' N, run 10' W & 4' N.
OFF-GDA-1H	P2			OFFGDASR110/10/62180 / 5 boxes containing bulk radioactive contaminated items (i.e. scrap wood, fiberglass filters) loosely packed in boxes. (Unknown weight for U-235, U-238, Th-232, Co-60 and mixed fission products; <1 total curie)	576	270' E of W pit marker
OFF-GDA-1H	P2			OFFGDASR111/15/62810200 / 5 boxes containing bulk radioactive contaminated items (i.e. scrap wood, fiberglass filters) loosely packed in boxes. (Unknown weight for U-235, U-238, Th-232, Co-60 and mixed fission products; <1 total curie)	576	270' E of W pit marker
OFF-GDA-1H	P2			OFFGDASR111/15/62820 / 2 boxes containing bulk radioactive contaminated items (i.e. scrap wood, fiberglass filters) loosely packed in boxes. (Unknown weight for U-235, U-238, Th-232, Co-60 and mixed fission products; <1 total curie)	192	225' E of W pit marker
OFF-GDA-1H	P2			OFFGDASR112/18/62810200 / Two boxes containing bulk contaminated items loosely packed and one box containing high level solid waste in 55-gal barrels (BE 1058) centered in box and filled with cement. (Unknown weight for U-235, U-238, Co-60, Fe-59 and mixed fission products; <2 total curies)	313	240' E of W pit marker
OFF-GDA-1H	P2			OFFGDASR104/30/63810404 / 10 boxes containing solid dry waste such as scrap metal absolute filters and scrap loose packed. (Unknown weight for U-235, U-238, Co-60, Fe-59 and mixed fission products; <1 curie)	935	95' East of West pit markers
OFF-GDA-1H	P3			OFFGDASR104/30/628105 / 12 wooden boxes containing scrap metal, absolute filters, scrap wood and fiberglass filters in plastic bags loose packed in boxes and high-level barrels (BE 1058) centered in box and box filled with reinforced concrete boxes. (U-235, U-238, Co-60, Th-232, MFP, < 3 Ci)	1254	Begin at a point 120' South & 0' East from NW pit marker. Run 30' South & 110' East.

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
OFF-GDA-1H	P3			OFFGDASR106/28/621925200 / 4 boxes containing bulk radioactive contaminated items (scrap wood, fiberglass filters in plastic bags) loosely packed in boxes and 6 boxes containing high level solid waste in 55-gal bls. (Be 1058) centered in box and box filled with cement	1132	Begin at a point 338' South & 60' East. Run 15' East & 25' South.
OFF-GDA-1H	P4			OFFGDASR101/22/63810 / 5 boxes, bulk contaminated items loosely packed (U-235, U-238, Co-60, Fe-59, MFP, < 2 Ci)	480	270' East of West Pit Marker
OFF-GDA-1H	P4			OFFGDASR103/15/63800 / 8 boxes containing high level solid waste in 55-gal barrels (BE 1058) centered in box and filled with cement. 4 boxes containing bulk contaminated items loosely packed (U-235, U-238, Fe-59, Co-60, MFP, < 1 Ci)	1424	2+90 East of NW Pit Marker
OFF-GDA-1H	P4			OFFGDASR106/25/63800 / 120 drums low level waste, dry solid state - shoe covers, towels, industrial wipes, filters, scrap metal, glass and scrap wood (trace isotopes, 250 mCi)	900	RWMIS: 225 E & 25 S of NW monument
OFF-GDA-1H	P4			OFFGDASR106/25/63810 / 10 boxes low level waste, dry solid state - shoe covers, towels, industrial wipes, filters, scrap metal, glass and scrap wood (trace isotopes <100 mCi)	1000	2+25 from West end 0 to 0+50 from North side
OFF-HEW-1H				Radium contaminated laboratory waste. (1961 - 1961) (94.46 m3) This waste stream is listed in HDT. It is the only waste stream for this source.	3335.8	
OFF-HEW-1H	P2			OFFHEWSR103/02/61800200 / 375 55-gal drums, containing plaster, wood lath, lab. furniture, and lab. glassware, the result of building decontamination. The drums are sealed and placed in sealed fiberboard boxes when necessary. The contamination consists of radium and daughters. (Unknown weight for radium and daughter elements; ~1.0 total curie)	4,500	Beginning at a point 85' W & 20' N of SE Pit Marker. Runs 81' N & 9' W. Burial Rows # 27, 28, 29.
OFF-HEW-1H	P2			OFFHEWSR107/10/611757200 / Material packed in 10 fifty-five gallon drums and 215 thirty gallon drums is crushed radio tubes, clocks and watch dials and hands, and laboratory waste. (Unknown weight for radium and daughters; unknown total curie amount)	950	Begins at a point 215' W & 3' N from SE pit marker run 60' N & 6' W. Burial rows # 70 & 71.
OFF-HEW-1H	P2			OFFHEWSR107/10/61800200 / 10 55-gal drums containing metal comp. (Unknown weight for Ra-226; 0.0 total curies)	546	221' W & 33' N of SE pit marker

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
OFF-IXE-1H		Lead - 3044.5 lb	3044.5 lb*	Radiation sources. Sealed sources in a lead pig liner. (1960 - 1963) (0.26 m3) This waste stream is listed in HDT. It is the only waste stream for this source.	9.18	
OFF-IXE-1H	P3	Lead	??	OFFIXESR103/07/6280030 / Iridium in lead cask steel encased and welded closed. (Unknown weight for Iridium 192, 60 curies)	0.231	188' South & 8' East from NW pit marker.
OFF-IXE-1H	P4	Lead	??	OFFIXESR102/15/63800 / Steel encased lead cask centered in concrete filled oil drum. Lifting ring welded to supports of lead core and extends above concrete (Co-60, Ir-192, 60 Ci)	8	300' East of West Pit Marker
OFF-LRL-1H		Lead - Unk(PUL 8100 kg) Asbestos -Unk(PUL 840 kg)	Unk(PUL 8100 kg) Unk(PUL 840 kg)	Biological waste. Animal parts & related metabolic studies on waste in metal barrels. (1962 - 1963) (262.73 m3) This waste stream is listed in the HDT.	9278.2	
OFF-LRL-2H		Lead - Unk(PUL 8100 kg) Asbestos - Unk(PUL 840 kg)	Unk(PUL 8100 kg) Unk(PUL 840 kg)	Concrete, bricks, & asphalt. Material from weapons testing, engine fabrication, & testing waste. In fiberglass barrels & wooden and metal boxes. (1962 - 1963) (1978.76 m3) This waste stream is listed in the HDT.	69,876	
OFF-LRL-2H?	P2			OFFLRLSR109/17/6280020 / 612 55-gal drums containing miscellaneous solid radioactive contaminated laboratory paraphernalia, broken glassware, paper wipes, rags, etc. Items are packaged suitable inner containers such as polyethylene bags, cardboard boxes, etc. and in outer containers that meet ICC specifications for shipment of radioactive material or have Bureau of Explosives permit. (Unknown weight for Mixed Fission Products & Trans-uranium elements; ~0.09 total curies)	5625	360' E of W pit marker
OFF-LRL-2H	P2			OFFLRLSR109/18/62800180 / 170 55-gal drums containing contaminated equipment. (Unknown weight for fission products, transuranic elements; unknown total curie amount)	1246	255' E of W pit markers
OFF-LRL-2H?	P2			OFFLRLSR101/14/6380075 / 8 steel tanks containing dry radioactive waste packed in steel container approved by Bureau of Explosives Permit # 1269. (Unknown weight for fission products; 4 curies)	1632	70 yds East of West pit markers

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
OFF-LRL-2H	P2			OFFLRLSR101/15/6380000 / 305 containers containing miscellaneous solid radioactive contaminated laboratory paraphernalia, broken glassware, paper, wipes, rags, tools, and equipment, etc. Items are packaged in steel reinforced concrete blocks, tubs, steel, or concrete capped steel containers which have a Bureau of Explosives permit. (Unknown isotope; 9,000 curies)	50000	Burial Pit 2, between 100'-300' East of West pit marker Burial Pit 2, between 275'-350' East of West pit marker
OFF-LRL-2H	P2			OFFLRLSR101/15/6381000 / 24 unknown containers containing concrete masonry. (Unknown weight of mixed fission products; 13.7 total curies) (Information taken from RWMIS, missing shipping document)	6816	200' East & 0' North of South West Monument
OFF-LRL-2H	P2			OFFLRLSR101/22/6380000 / 19 unknown containers containing concrete masonry. (Unknown weight of mixed fission products, Pu239, Pu240; 139 total curies) (Information taken from RWMIS, missing shipping document)	5403	200' East & 0' North of South West Monument
OFF-LRL-2H	P2			OFFLRLSR101/22/6381000 / 22 unknown containers containing concrete masonry. (Unknown weight of mixed fission products; 51 total curies) (Information taken from RWMIS, missing shipping document)	6247	200' East & 0' North of South West Monument
OFF-LRL-2H	P2			OFFLRLSR101/29/6380020040 / 36 unknown containers containing concrete masonry. (Unknown weight of mixed fission products; 193.7 total curies) (Information taken from RWMIS, missing shipping document)	10220	200' East & 0' North of South West Monument
OFF-LRL-2H	P2			OFFLRLSR101/31/6380000 / 9 unknown containers containing concrete masonry. (Unknown weight of mixed fission products and H3; 164.3 total curies) (Information taken from RWMIS, missing shipping document)	2556	200' East & 0' North of South West Monument
OFF-LRL-2H ?	P2			OFFLRLSR102/08/6380000 / 10 unknown containers containing concrete masonry. (Pu-239, Pu-240; 199.2 total curies) (Information taken from RWMIS, missing shipping document)	2840	200' East & 0' North of South West Monument
OFF-LRL-2H?	P2			OFFLRLSR102/08/6381000 / 39 unknown containers containing concrete masonry. (MFP; 103.1 Ci) (Information taken from RWMIS, missing shipping document)	11,071	200' East & 0' North of South West Monument

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
OFF-LRL-2H ?	P2			OFFLRLSR102/08/6382000 / 5 unknown containers containing concrete masonry. (H-3, Pu-239, Pu-240; 256 Ci). (Information taken from RWMIS, missing shipping document)	1420	200' East & 0' North of South West Monument
OFF-LRL-2H ?	P2			OFFLRLSR102/19/6380000 / 1 unknown container containing concrete masonry. (Sc-46, 1.5 Ci). (Information taken from RWMIS, missing shipping document)	284	200' East & 0' North of South West Monument
OFF-LRL-2H ?	P2			OFFLRLSR102/26/6380000 / 1 unknown container containing concrete masonry. (Ru-106, 1.5 Ci). (Information taken from RWMIS, missing shipping document)	284	200' East & 0' North of South West Monument
OFF-LRL-2H ?	P2			OFFLRLSR102/28/6380000 / 1 unknown container containing concrete masonry. (Pu-239, Pu-240, Sr-90, 5 Ci). (Information taken from RWMIS, missing shipping document)	284	200' East & 0' North of South West Monument
OFF-LRL-2H ?	P2			OFFLRLSR102/28/6381000 / 34 containers containing concrete masonry. (MFP, 13.85 Ci). (Information taken from RWMIS, missing shipping document)	9659	200' East & 0' North of South West Monument
OFF-LRL-2H?	P2			OFFLRLSR103/15/6380050 / 156 55-gal containers containing miscellaneous solid radioactive contaminated laboratory paraphernalia, broken glassware, paper wipes, rags, etc. Items are packaged in suitable inner containers such as polyethylene bags, cardboard boxes, etc. and in outer containers that meet ICC specifications for shipment of radioactive material or have Bureau of Explosives permit.	1120	170' East of West pit marker
OFF-LRL-2H ?	P2			OFFLRLSR104/22/63800150 / 873 55-gal drums containing miscellaneous solid radioactive laboratory paraphernalia, broken glassware, paper wipes, rags, etc., items are packaged in suitable inner containers such as polyethylene bags, cardboard boxes, etc., and in outer containers that meet ICC specifications for shipment of radioactive materials, and have Bureau of Explosives permit number 1290. (Unknown weight for mixed fission products; curie amount 124.8)	6434	175' East of West pit marker

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
OFF-LRL-2H	P3			OFFLRLSR102/14/62800100 / 391 55-gal drums and 25 wooden boxes containing miscellaneous solid radioactive contaminated laboratory paraphernalia, broken glassware, paper wipes, rags, etc. (MFP, TRU, 71 mCi)	4482	Begin at a point 194' South & 0' East from NW pit marker. Run 50' East & 6' South. Also at a point 234' South & 50' East from NW marker. Run 20' East & 3' South.
OFF-LRL-2H	P3			OFFLRLSR105/08/6280060 / 130 55-gal drums containing dry radioactive waste in polyethylene bags packed in an outside shipping container which is a 55-gal steel drum approved by the Bureau of Explosive Permit 1290. (MFP, TRU, 1.5 Ci)	1170	Begin at a point 334' South of NW #3 pit marker. Run 60' East & 9' South.
OFF-LRL-2H	P3			OFFLRLSR106/04/6280050 / 600 55-gal drums and 20 wooden boxes containing miscellaneous solid radioactive contaminated laboratory paraphernalia, broken glassware, paper wipes, rags etc. Items are packaged in suitable inner containers such as polyethylene bags, cardboard boxes, etc. (MFP, TRU, 90 mCi)	5240	Begin at 100' North of SW #3 pit marker. Run 1'-60' East & 15' South.
OFF-LRL-2H	P3			OFFLRLSR107/25/6280060 / 170 55-gal drums containing dry radioactive waste in polyethylene bags packed in an outside shipping container which is a 55 gallon steel drum approved by the Bureau of Explosives Permit 1290. (MFP, TRU 1.0 Ci)	1246	10 ft. East & 15 ft. North of SW pit marker
OFF-LRL-2H	P4			OFFLRLSR102/04/63800 / 170 55 gallon drums containing dry radioactive waste contained in polyethylene bags. (Fission products, TRU, 17 Ci)	1246	270' East of West Pit Marker
OFF-LRL-2H ?	P4			OFFLRLSR103/05/63800 / Miscellaneous solid radioactive contaminated laboratory paraphernalia, broken glass ware, paper wipes, rags, tools and equipment, etc. Items are packaged in steel re-inforced concrete blocks, tubs, steel, or concrete capped steel containers which have a Bureau of Explosives permit. (MFP, Co-60, Cm, Sr-90, Ru-106 9000Ci)	50,000	Unk: lists the following 8 shipments
OFF-LRL-2H ?	P4			OFFLRLSR103/05/63810 / See OFFLRLSR103/05/63800, 2 unknown containers containing concrete masonry. (H-3, 4000 Ci). (Information taken from RWMIS, missing shipping document)	568	200' East & 0' North of South West Monument

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
OFF-LRL-2H ?	P4			OFFLRLSR103/05/63830 / See OFFLRLSR103/05/63800 1 unknown containers containing concrete masonry. (Co-60, 4000 Ci). (Information taken from RWMIS, missing shipping document)	283	312' East & 0' North of South West Monument
OFF-LRL-2H ?	P4			OFFLRLSR103/07/63800 / See OFFLRLSR103/05/63800 60 unknown containers containing concrete masonry. (MFP, 47.71 Ci). (Information taken from RWMIS, missing shipping document)	17,043	312' East & 0' North of South West Monument
OFF-LRL-2H ?	P4			OFFLRLSR103/07/63810 / See OFFLRLSR103/05/63800 17 unknown containers containing concrete masonry. (Pu-239, Pu-240, 353.2 Ci). (Information taken from RWMIS, missing shipping document)	4,828	312' East & 0' North of South West Monument
OFF-LRL-2H ?	P4			OFFLRLSR103/07/63820 / See OFFLRLSR103/05/63800 8 unknown containers containing concrete masonry. (MFP, Pu-239, Pu-240, 124 Ci). (Information taken from RWMIS, missing shipping document)	2,271	312' East & 0' North of South West Monument
OFF-LRL-2H ?	P4			OFFLRLSR103/07/63830 / See OFFLRLSR103/05/63800 1 unknown containers containing concrete masonry. (H-3, 1500 Ci). (Information taken from RWMIS, missing shipping document)	283	312' East & 0' North of South West Monument
OFF-LRL-2H ?	P4			OFFLRLSR103/07/63840 / See OFFLRLSR103/05/63800 1 unknown containers containing concrete masonry. (Sr-90, Y-90, 0.5 Ci). (Information taken from RWMIS due to missing shipping document)	283	312' East & 0' North of South West Monument
OFF-LRL-2H ?	P4			OFFLRLSR103/19/63800 / See OFFLRLSR103/05/63800 1 unknown containers containing concrete masonry. (Cr-252, 0.01 Ci). (Information taken from RWMIS, missing shipping document)	283	312' East & 0' North of South West Monument
OFF-LRL-2H	P4			OFFLRLSR106/07/63800 / Consists of dry radioactive waste packed in steel containers (8 tanks) approved by Bureau of Explosives Permit #1269, (Fission Products, 4 Ci)	1632	180' from West to East, 60' from North to South
OFF-LRL-2H	P4			OFFLRLSR107/01/63800 / Dry radioactive waste contained in Polyethylene bags in 150 55-gal steel drums approved by B of E #1290 (Fission products, TRU, 0.45 Ci)	1170	2+15 from West end, 0-60' from North end

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
OFF-LRL-2H	P4			OFFLRLSR108/01/63800 / Miscellaneous solid radioactive contaminated laboratory paraphernalia, broken glassware, paper wipes, rags, etc. Items are packaged in suitable inner containers such as polyethylene bags, cardboard boxes, etc. and in 300 55 gal drums and 10 7' x 6' dia steel containers. (MFP, TRU, 18 Ci)	6100	1+90 from West end and 0 to 1+00 from North side: Tanks at 1+00 to 1+90 from West & 0+80 from North side
OFF-MCS-1H				Electronic tubes & metascopes. (1962 - 1962) (13.42 m3) This waste stream is listed in the HDT. It is the only waste stream for this source.	473.9	
OFF-MCS-1H	P3			OFFMCSSR105/15/62800100 / 55 wooden boxes containing metascopes and electronic tubes. Metascopes are packaged in banded wooden boxes of 4 each. Tubes are packaged in cardboard containers of 1 each. (Unknown weight of radium & unknown isotope contained in tubes, 3.8933376 mCi)	374	Begin at a point 288' South & 70' East from NW pit marker. Run 30' East & 25' South.
OFF-MHS-1H				Thirty-nine CO-60 wires sealed in concrete. (1963 - 1963) (0.1416 m3) This waste stream is listed in the HDT. It is the only waste stream for this source.	5	
OFF-MHS-1H ?	P4			OFFMHSSR106/15/63800 / 39 Co60 wires contained in solid concrete the size of a 30 gal drum	5	2+50 from West markers, 0+30 from North side
OFF-NEC-1H				Aluminum heat exchanger and waste containing U-235 and U-238. (1961 - 1962) (164.55 m3) This waste stream is listed in the HDT. It is the only waste stream for this source.	5811	
OFF-NEC-1H	P2			OFFNECSR101/21/6180080 / The waste is made up of typical laboratory type waste material such as swabs, paper, broken glassware, etc. There are 99 55 gallon drums and 31 boxes. All containers are sealed and free of external contamination. 37 4.0 ft ³ boxes contain hepa filters from AI. (Unknown weight for MFP; 0.83042 total curies)	1018.1	Old barrel rows #44, 45 & 46. Beginning 150 ft North and 2 ft West of marker and going West 20 yds.

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
OFF-NEC-1H	P3			OFFNECSR109/19/61800180 / One aluminum heat exchanger, 26 feet 9 inches in length by 5 feet in diameter, weighing 20,000 lb. 120 ICC-12-B-65 fiberboard boxes containing mixed fission product wastes. (Unknown weight for Al, Co-60, Fe-59, MFP; 0.28775 total curies)	1065	Boxes begin at a point 651' W & 57' N from SE pit marker run 24' W & 18' W. Tank at 714' W & 57' N from SE marker run 5' N & 30' W.
OFF-NEC-1H	P3			OFFNECSR110/12/61800200 / 480 ICC-12B-65 fiberboard cartons containing mixed fission product and U-235 contaminated wastes (paper, swabs, broken glassware, etc.) (Unknown weight for MFP and Sr-90, 434.4g of U-235, 2.4lb of U-238; 0.66634 curies for MFP)	2160	Begin at a point 175' W & 3' N from SE Pit marker run 50' N & 27' W
OFF-NEC-1H	P3			OFFNECSR105/03/6280050 / 424 fiberboard boxes containing mixed fission product wastes: paper, filters, swabs, broken glassware etc. (Unknown weight of mixed fission products & Sr90, 416.88 mc)	1545	Begin at a point 138' South & 15' West from NE pit marker. Run 60' West & 45' South.
OFF-NMR-1H		Magnesium - Unk (ULE 280 kg) Manganese - Unk (PUL E+01 kg) Sodium Nitrate - Unk (PUL 450 kg) Anthracene -200 gm	Unk(ULE 280 kg) Unk(PUL E+01 kg) Unk(PUL 450 kg) 200 gm	Biological waste. Waste is contained in cement matrix in metal drums. (1961 - 1961) (3.964 m3) This waste stream is listed in the HDT. This is the only waste stream for this source.	140	
OFF-NMR-1H	P2	Magnesium Manganese Sodium Nitrate Anthracene		OFFNMRSR105/11/6180020 / 19 55 gallon steel drums containing unknown contents. RWMIS: 1 bbl animal waste, 18 bbl paper equipment. (Unknown weight for Mixed Fission Products (MFP); Cs-137, Sr-89, Sr-90, Y-90, Y-91, Zn-65, Fe-59, P-32, I-131, Ru-106, Co-60, H-3, Ce-144, Ca-45; <0.02 total curies)	140	Begins at a point 121' W & 20' N from SE marker. Runs 50' N & 3' W
OFF-OMC-1H				Paper graphite clothing, steel copper crucibles and acid carboy. (1961 - 1961) (7.33 m3) This waste stream is listed in the HDT. This is the only waste stream for this source.	259	

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
OFF-OMC-1H	P2			OFFOMCSR104/24/6180020 / 1 wooden crate containing steel, copper crucibles, empty acid carboy. 19 55-gal drums containing paper, graphite, clothing, metal scrap packed in metal drums. (Unknown isotope; <0.001 total curies)	259	Begins at a point 104' W & 42' N from SE pit marker. Runs 30' N & 3' W. Burial Row # 40. Box at 159' W & 93' N.
OFF-PM1-1H				Resin storage tank, cement and empty tank. (1969 - 1969) (49.9 m3) This waste stream is listed in the HDT. This is the only source for this waste stream.	1762.2	
OFF-PM1-1H	P10			OFFPMSR103/28/69800 / 12,000 gal cylindrical tank (MFP, < 0.5 Ci)	103	280-305' East & 10-25' North of S/W-2 Monument
OFF-SAM-1H				Missile structural components, jet engine parts, fragments of fuel tanks, paper and ash from BOMARC missile cleanup. (1961 - 1961) (25.14 m3) This waste stream is listed in the HDT.	887.8	
OFF-SAM-1H	P2			OFFSAMSR103/23/618000000 / 2 containers containing missile debris, ash, and sand is contained in two large engine cans. (Unknown weight for Th, Pu; Unknown curie amount, RWMSIS: Pu-239, 0.1 Ci)	381	Beginning at a point 134' W & 69' N from SE pit marker. Runs 6' N & 15' W. Burial rows # 43, 44, 45, 46, & 47.
OFF-SAM-2H		Magnesium - Unk(PUL 270 kg) Lead - Unk(PUL 11000 kg)	Unk(PUL 270 kg) Unk(PUL 11000 kg)	Reactor shield, misc. metals (magnesium alloy, copper, tin, aluminum, and stainless steel), insulation, rubber, plastic, paper, glass, wire, dirt, wood, concrete, and ash. (Shield weighs 36,000 lb). (1960 - 1961) (73.13 m3) This waste stream is listed in the HDT.	2582.6	
OFF-SAM-2H ?	P2	Lead		OFFSAMSR110/21/60800150 / One radioactive structure (shield used with Aircraft Shield Test Reactor). The unit is mounted on steel skids and is otherwise impractical to crate or package. Shield is almost entirely lead and stainless steel. (Unknown weight for Fe, Co; ~<0.1 total curies)	1,672 (9.5'x16'x11' high)	550 W & 25 S NE

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
OFF-SAM-2H	P2	Magnesium		OFFSAMSR112/02/6080075 / 50 steel drums and 1 steel box containing Irradiated steel aluminum, copper, tin, plastic, rubber, magnesium-thorium alloy, paper, fiberglass insulation, glass, dirt, mixed trash. (Unknown weight for Fe, Co, Cu, Mg-Th, Sn; 0.094 total curies)	403.5	Barrel row #6, Beginning at 21 ft West and 26 ft North and continuing 15 yds North from South East pit marker
OFF-SAM-2H	P2			OFFSAMSR105/25/6180080 / 69 various sized steel drums containing scrap metal, paper, ash and dirt (Unknown isotope; 0.096 total curies)	507	Begins at a point 161' W & 20' N from SE pit marker. Runs 70' N & 3' W. Burial Row # 52.
OFF-TCC-1H				Rags, wipes, tape, concrete, graphite and solvent. Cleanup from an incident involving a Co-60 radiographic camera. (1960 - 1960) (2.12 m3) This waste stream is listed in the HDT. This is the only waste stream for this source.	74.9	
OFF-TCC-1H	P2			OFFTCCSR112/15/6080000 / 1 wooden box containing rags, paper wipes, adhesive tape, concrete and associated miscellaneous items. All items are in polyethylene bag, inside cardboard box, inside wooden box. (Unknown weight for Co60; <0.001 total curies)	75	55 ft North of monument 70 ft West
OFF-UAC-1H				Radioactive tube waste packed in cement. (1960 - 1960) (1.84 m3) This waste stream is listed in the HDT. This is the only waste stream for this source.	65	
OFF-UAC-1H	P2			OFFUACSR109/08/6080000 / 1 of 6 as per list; 2 of 6, 1 ea 10KP7; 15 ea 5927; 24 ea CRNQ5921; 3 of 6, 1 ea C65948/1754; 4 ea CRC 5CPI-A; 13 ea 6163; 2 ea, 5864; 3 of 6, 2 ea OB 2E6A; 1 ea OA3CCBS; 1 ea 6L6; 13 ea 6BL6; 4 of 6, 3 ea 5CPIA; 3 ea, Misc; 2 ea 3ADPI; 2 ea 5C22; 5 of 6, 1 ea 3DPIA; 6 ea 5FP7A; 3 ea 8W Blackwout; 2 ea 5948; 6 of 6, 1 ea 10KP7; 23 5922; 10 ea 6164; 6 ea 5863 Packing Method -- 1A8 (No isotopes, No curies)	36.6	Barrel row #1 at 27 ft North & 5 ft West from pit marker

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
OFF-UBM-1H				Ore processing wastes (includes rare earth elements, U3O8, Fe-203, ThO2, uranium chlorides, and iron oxides). (1961 - 1963) (22.98 m3) This waste stream is listed in the HDT. This is the only waste stream for this source.	811.5	
OFF-UBM-1H	P2			OFFUBMSR101/23/6180050 / Unknown number of containers containing unknown contents. (Unknown isotopes; Unknown curie amount.) *Invoice reads "see attached sheet". Unfortunately, there is not an attached sheet to look at. RWMIS: metal components, scrap and filters. (U-238, MFP 3.06 Ci)	176.9	25 ft North & 24 West of SE corner of pit
OFF-UBM-1H	P2			OFFUBMSR101/15/6380010 / Stated "see attachment"; no attachment was available RWMIS: Chemicals NOS (MFP, Th-232, U-235, U-238. 0 Ci)	289.5	150' East of West monument
OFF-UBM-1H	P3			OFFUBMSR103/26/628000000 / Stated "see attachment"; no attachment was available RWMIS: 8 cardboard boxes containing filters, 1 box metal comp, and 1 drum sludge NOS. (Unknown weight and unknown curie amount, RWMIS: MFP 0.01 mCi)	224	Begin at a point 272' South & 50' East from NW pit marker. Run 15' South & 30' East.
OFF-UBM-1H	P3			OFFUBMSR106/08/6280050 / 2 30-gal drums containing broken graphite crucibles impregnated with a mixture of U and Th oxides and fluorides. 1 55-gal drum containing a solid euxenite ore residue from which the U has been extracted. (Unknown weight for U238 & Th232, 0.0824 Ci)	22	Begin at a point 30' South & 20' East from NW pit marker. Run 5' East & 3' South.
OFF-UBM-1H	P4			OFFUBMSR107/15/63800 / Filter cartridges, filters, reduction residue, vacuum cleaner (U, Th No curie count reported)	159	5 containers at 190' from West end and 90' from North side
OFF-UNR-1H		Nitric Acid - Unk(PUL 1200 kg)	Unk(PUL 1200 kg)	Laboratory waste (paper, wood, glassware, empty bottles, etc.), Co-60 sources, Sr-90 sources, and H-3. Waste is in cardboard boxes in plastic bags inside the concrete block with a concrete cap. May include animal carcasses (rats & mice), blood and feces, scintillation vials, small quantities (1-L containers) of fuming nitric acid, and titanium H-3 accelerator targets. Nitric acid containers are inside another container with absorbent material (calcium silicate). (1963 - 1963) (8.04 m3) This waste stream is listed in the HDT. This is the only waste stream for this source.	285.3	

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
OFF-UNR-1H	P4	Lead Nitric Acid	??	OFFUNRSR103/01/63800 / Material in block is solid waste materials (paper, wood, glassware, lead-shielded Co60 sources. Sr40 sources encased in plaster of Paris, H3 as liquid absorbent material in polyethylene bottle sealed with plaster of Paris, empty bottles etc. Block capped with 6" concrete (Co-60 15.3 Ci, H-3 10 Ci, Sr-90 3 Ci, MFP 200 mCi)	284	3+10' East of the South West Marker
OFF-UOU-1H		Formaldehyde (60-62) - 83.2 lb	83.2 lb	Biological waste. Radioactive excreta and animal carcasses mixed in concrete. (1960 - 1960) (710.0 ft3) This waste stream is listed in HDT. This is the only waste stream for this source. The shipping dates appear to be incorrect in HDT for overall shipping, see dates on contaminant and first shipment record.	710	
OFF-UOU-1H	P3	Formaldehyde ?		OFFUOUSR109/17/6280010 / 50 55-gal drums and 1-wooden box containing radioactive excreta and embalmed dog carcasses mixed in concrete (Unknown weight for strontium 90, 10 mc)	325	30 ft. West & 40 ft. North of SE pit marker.
OFF-UOU-1H	P2			OFFUOUSR109/20/6080010 / 22 50-gal steel drums filled with radioactive excrete fixed in concrete. 21 5-gal paint cans filled as above. 2 cardboard boxes filled with dry (mostly paper) waste. (Unknown weight for Sr90; 0.002 total curies)	~200	Rows 34 & 35, North from monument ~ 155 ft
OFF-UOW-1H		3-Methyl-cholanthrene - Unk(ULE E+02 kg) Diisopropyl-fluoro-phosphate - Unk(PUL<<E+02 kg) Benzene - Unk(ULE 120 kg) Methyl Alcohol - Unk(PUL 100 kg) Carbon Tetrachloride - Unk(PUL 200 kg)	Unk(ULE E+02 kg) Unk(PUL<<E+02 kg) Unk(ULE 120 kg) Unk(PUL 100 kg) Unk(PUL 200 kg)	Animals, animal tissue, isotopic solutions, evaporated residues, paper, syringes, clothing, laboratory glassware, plachets, benzene, carbon tetrachloride, methyl alcohol and other biomedical waste. Tissue experiments conducted may have involved the use of 14C, Diphtheria, Poliovirus and New Castle virus. Although it is not know if the type of waste was in the waste stream, it is believed the waste would have been deactivated prior to disposal. Animal carcasses were wrapped in plastic or butcher paper and placed in drums with other items. (1960 - 1963) (12.97 m3) This waste stream is listed in the HDT. This is the only waste stream for this source.	458	

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
OFF-UOW-1H	P2	Lead Liquid Residues		OFFUOWSR112/12/6180040 / Contains laboratory trash contaminated with miscellaneous radioactive isotopes. Trash includes paper, glass, animal carcasses and lead shielding for Cobalt 60 sources of Millicurie size and over. Liquid residues have been mixed with Perlite #2 at rate of 2 volume of Perlite to 1 volumes of liquid to obtain a damp solid aggregated for shipping purposes. (Unknown weight for Cobalt-60, Carbon-14, Tritium, Fe-59, Fe-55, Cr-51, S-35, Ag-1, and mixed fission products; 0.78 total curies)	125	Begin at a point 387' W & 20' N from SE pit marker run 20' N & 3' W
OFF-UOW-1H	P2	Liquid Residues?		OFFUOWSR110/10/6080050 / Type A, 3 steel 55-gal drums with 4 inch concrete cap on top. Type B, 25 steel 5-gal drums with 3 inch concrete cap on top. Type C, 38 welded steel "fuze" box with 4 clamp sealed metal lid. Contents: Laboratory trash materials including animal carcasses, glassware, absorbent paper. (Unknown weight for Fe59, H3, C14, Zn65, Sr90, Cr51, Ca45, Fe55, Cs137; 0.15 total curies, plus or minus 0.06 curies)	84	145 ft North of monument 40 & 50 ft West
OFF-UOW-1H	P2	Liquid Residues?		OFFUOWSR106/09/6180020 / Miscellaneous lab. trash including 1. Animal carcasses packed in lime: 2. Waste absorbent paper: 3. Glassware: 4. Planchets. (Unknown weight for Strontium-89, Manganese-54, Cobalt-60, Tin-113, Tritium, Carbon-14, Sulfur-35, Calcium-45, Iron-59, Iron-55, Zinc-65, Chromium-51; 0.11 total curies)	51	Begin at a point 152' W & 90' N from SE pit marker run 6' N & 3' W. Burial row # 50
OFF-UOW-1H	P2	Liquid Residues?		OFFUOWSR109/20/62800130 / 12 55-gal drums containing byproduct material contaminated laboratory trash (Including animal carcasses, waste paper, broken and intact glassware, wet vermiculite) Packed in ICC approved steel 55 gal. drums. (Unknown weight for H-3, C-14, Fe-59, Fe-55, Cr-51, Co-60, S-3; 0.103 total curies)	96	405' E and 135' N of SW pit marker
OFF-UOW-1H	P4	Liquid Residues?		OFFUOWSR102/20/63800 / Laboratory solid trash contaminated with miscellaneous radioactive isotopes. Trash includes paper, glass, and animal carcasses allayed in dry unslacked lime. Liquids have been mixed with Prelate 2 (H-3, I-125, C-14, S-35, Sr-85, Cr-51, P-32, Cu-64, Fe-59, Zn-65, Co-60, Pm-147, I-131, H9-203, Cs-137, Fe-55, Sr-90, Co-45, 0.15 Ci)	110	330' East of West Pit Marker

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
OFF-USN-1H		Formaldehyde (63-63) - 225 lb	225 lb*	Animal carcasses, waste paper towels, glassware, tools and similar laboratory items. Animal carcasses are pickled in formaldehyde and inside plastic bags. (1960 - 1963) (227.5 m3) This waste stream is listed in the HDT. This is the only waste stream for this source.	8034	
OFF-USN-1H	P2	Formaldehyde		OFFUSNSR108/20/6280010 / 3 55-gal drums containing an ICC approved drum containing animal carcasses. All carcasses sealed inside double plastic bags, inside drums. (Unknown weight for C-14; curie amount <0.0012 drum)	36	Buried 110 yds from NW pit marker
OFF-USN-1H	P2	Formaldehyde		OFFUSNSR105/09/6380010 / 3 55-gal drums containing animal carcasses. All carcasses sealed inside double plastic bags, inside drums. (Unknown weight for C-14; <0.0012 total curies/drum)	36	70' East of West pit markers
OFF-USN-1H	P3	Formaldehyde		OFFUSNSR108/20/6281010 / 3 55-gal drums containing animal carcasses. All carcasses sealed inside double plastic bags, inside drums. (Unknown weight for C14, <1.2 mCi/drum)	36	10 ft. West & 20 ft. North of SE pit marker
OFF-USN-1H	P2			OFFUSNSR111/01/608001000 / Three packages, each package consists of an ICC-12-B carton containing one ICC 2-R container (approximately 6" diameter x 16"). R containers each contain waste sealed inside plastic bags. Waste consists of papers, towels, glassware and similar laboratory items. (Unknown weight for Sr90; Y90; 5 total curies, no single package more than 2.7)	18	Begin at a point 187' W & 81' N from SE pit marker, run 4' N & 4' W
OFF-USN-1H	P2			OFFUSNSR104/10/61800200 / 50 cartons, each package consists of an ICC 12B carton containing waste papers, towels, glassware, tools and similar laboratory items. All waste material sealed inside double plastic bags. (Unknown weight for Cs-137, Ba-137, Sb-124, Tm-170, Ir-192, Co-60; <135 total curies; not over 2.7 curies/ per package.)	111	Begins at a point 85' W & 100' N from SE pit marker. Run 4' N & 5' W. Barrel Row # 27
OFF-USN-1H	P2			OFFUSNSR104/19/6180020022 / 12 cartons, each package consists of an ICC 12B carton containing waste papers, towels, glassware, tools and similar laboratory items. All waste material sealed inside double plastic bags. (Unknown weight for Cs-137, Ba-137, Sb-124, Tm-170, Ir-192, Co-60; 0.1 total curies (not over 2.7 curies/per package).)	27	Begins at a point 85' W & 100' N from SE Pit marker. Runs 4' N & 5' W. Barrel Row # 27

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
OFF-USN-1H	P2			OFFUSNSR104/20/61800200 / 15 cartons, each package consists of an ICC 12B carton containing waste papers, towels, glassware, tools and similar laboratory items. All waste material sealed inside double plastic bags. (Unknown weight for Cs-137, Ba-137, Sb-124, Tm-170, Ir-192, Co-60; <0.120 total curies)	RWMIS: 30	Begin at a point 85' W & 100' N from SE pit marker. Run 4' N & 5' W. Barrel Row # 27
OFF-USN-1H	P2			OFFUSNSR105/12/61800200 / 20 containers, each package consists of an ICC 12B carton containing waste papers, towels, glassware, tools and similar laboratory items. All waste material sealed inside double plastic bags. (Unknown weight for Cs-137, Ba-137, Sb-124, Tm-170, Ir-192, Co-60; <20 total curies (not over 2.7 curies/per package))	45	Begins at a point 124' W & 81' N from SE pit marker. Runs 2' W & 5' N
OFF-USN-1H	P2			OFFUSNSR106/12/61800200 / 20 containers, each package consists of an ICC 12B carton containing waste papers, towels, glassware, tools and similar laboratory items. All waste material sealed inside double plastic bags. (Unknown weight for Cs-137, Ba-137, Sb-124, Tm-170, Ir-192, Co-60; <20 total curies (not over 2.7 curies/per package))	45	Begin 123' W & 81' N from SE pit marker run 5' N & 4' W. Burial row # 41
OFF-USN-1H	P2			OFFUSNSR106/23/61800200 / 20 containers, each package consists of an ICC 12B carton containing waste papers, towels, glassware, tools and similar laboratory items. All waste material sealed inside double plastic bags. (Unknown weight for Sr-90, Po-210, and Ra-226; <20 total curies (not over 2.7 curies/per package))	45	Begin at a point 142' W & 75' N from SE pit marker run 5' N & 15' W
OFF-USN-1H	P2			OFFUSNSR107/05/61800200 / 40 containers, each package consists of an ICC 12B carton containing waste papers, towels, glassware, tools and similar laboratory items. All waste material sealed inside double plastic bags. (Unknown weight for Cs-137, Co-60, Sr-90, Po-210, and Ra-226; <40 total curies (not over 2.7 curies/package))	40	Begins at a point 140' W & 110' N from SE pit marker run 6' N & 6' W. Burial rows # 45 & 46
OFF-USN-1H	P2			OFFUSNSR107/07/61800200 / 30 containers, each package consists of an ICC 12B carton containing waste papers, towels, glassware, tools and similar laboratory items. All waste material sealed inside double plastic bags. (Unknown weight for Cs-137, Co-60, Sr-90, Po-210, and Ra-226; <40 total curies (not over 2.7 curies/package))	50	Begins at a point 155' W & 66' N from SE pit marker run 10' N & 5' W.

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
OFF-USN-1H	P2			OFFUSNSR107/14/61800200 / 30 packages, each package consists of an ICC 12B carton containing waste papers, towels, glassware, tools and similar laboratory items. All waste material sealed inside double plastic bags. (Unknown weight for Cs-137, Co-60, Sr-90, Po-210, and Ra-226; <40 total curies (not over 2.7 curies/package))	47	Begins at a point 155' W & 66' N from SE pit marker run 10' N & 5' W
OFF-USN-1H	P2			OFFUSNSR108/01/61800200 / 21 packages, each package consists of an ICC 12B carton containing waste papers, towels, glassware, tools and similar laboratory items. All waste material sealed inside double plastic bags. (Unknown weight for Cs-137, Co-60, Sr-90, Po-210, and Ra-226; <40 total curies (not over 2.7 curies/package))	46	Begin at a point 170' W & 96' N from SE pit marker run 6' W & 6' N.
OFF-USN-1H	P2			OFFUSNSR108/07/61800200 / 27 packages, each package consists of an ICC 12B carton containing waste papers, towels, glassware, tools and similar laboratory items. All waste material sealed inside double plastic bags. (Unknown weight for Cs-137, Co-60, Sr-90, Po-210, and Ra-226; <40 total curies (not over 2.7 curies/package))	64	Begin at a point 170' W & 96' N from SE pit marker run 6' W & 6' N.
OFF-USN-1H	P2			OFFUSNSR108/18/61800200 / 16 containers, each package consists of an ICC approved container of waste papers, towels, glassware, tools and similar laboratory items. All waste material sealed inside double plastic bags. (Unknown weight for Cs-137, Co-60, Sr-90, Po-210, and Ra-226; <50 total curies (not over 2.7 curies/package))	38	Begin at a point 196' W & 78' N from SE pit marker run 7' W & 7' N
OFF-USN-1H	P2			OFFUSNSR108/24/61800200 / 28 boxes, each package consists of an ICC approved container of waste papers, towels, glassware, tools and similar laboratory items. All waste material sealed inside double plastic bags or sealed in concrete. (Unknown weight for Cs-137, Co-60, Sr-90, Po-210, and Ra-226; <50 total curies (not over 2.7 curies/package))	80	Begin at a point 220' W & 90' N from SE pit marker run 10' N & 15' W
OFF-USN-1H	P2			OFFUSNSR108/24/61810200 / 30 packages, each package consists of an ICC approved container of waste papers, towels, glassware, tools and similar laboratory items. All waste material sealed inside double plastic bags or sealed in concrete. (Unknown weight for Cs-137, Co-60, Sr-90, Po-210, and Ra-226; <50 total curies (not over 2.7 curies/package))	24	Begin at a point 196' W & 90' N from SE pit marker run 15' N & 15' W

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
OFF-USN-1H	P2			OFFUSNSR110/20/61800200 / 30 boxes, each package consists of an ICC approved container of waste papers, towels, glassware, tools and similar laboratory items. All waste material sealed inside double plastic bags. (Unknown weight for Cs-137, Co-60, Sr-90, Po-210, and Ra-226; <50 total curies (not over 2.7 curies/package))	100	Begin at a point 171' W & 5' N from SE pit marker run 15' N & 3' W. Burial row #55
OFF-USN-1H	P2			OFFUSNSR111/10/61800200 / 36 boxes, each package consists of an ICC approved container of waste, papers, towels, glassware, tools and similar laboratory items. All waste material sealed inside double plastic bags. (Unknown weight for Cs-137, Co-60, Po-210; <50 total curies (not over 2.7curies/package))	107	Begin at a point 25' W & 3' N from SE pit marker run 25' W & 18' N
OFF-USN-1H	P2			OFFUSNSR101/02/62800200 / 10 cardboard boxes containing an ICC approved container of waste papers, towels, glassware, tools and similar laboratory items. All waste materials sealed inside double plastic bags. (Unknown weight for Co-60 and Cs-137; 0.2 total curies)	24	Begin at a point 336' W & 25' N from SE pit marker; run 10' W & 10' N
OFF-USN-1H	P2			OFFUSNSR101/15/62800200 / 30 cardboard boxes containing of an ICC approved container of waste papers, towels, glassware, tools and similar laboratory items. All waste materials sealed inside double plastic bags, inside containers. (Unknown weight for Cs-137 and Co-60; <1 total curie)	120	Begin at a point 390' W & 5' N from SE pit marker; run 10' W & 10' N
OFF-USN-1H	P2			OFFUSNSR102/01/62800200 / 30 cardboard boxes each containing an ICC approved container of waste papers, towels, glassware, tools and similar laboratory items. All waste materials sealed inside double plastic bags, inside containers. (Unknown weight for Cs-137 and Co-60; <1 total curies)	120	Begin at a point 421' W & 1' N from SE pit marker; run 10' W & 6' N; remainder of shipment buried in Burial Trench #25 at 6 & 25
OFF-USN-1H	P2			OFFUSNSR108/30/62800200 / 40 cardboard boxes containing an ICC approved container of waste papers, tools, glassware and similar laboratory items. All waste materials sealed inside double plastic bags, inside containers. (Unknown weight for Cs-137 and Co-60; <1 total curie)	160	Buried 30' from NW pit marker

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
OFF-USN-1H	P2			OFFUSNSR109/07/62800200 / 25 cardboard boxes containing an ICC approved container of waste papers, tools, glassware and similar laboratory items. All waste materials sealed inside double plastic bags, inside containers. (Unknown weight for Cs-137 and Co-60; <1 total curie)	160	10' E & 4' N of SW pit marker
OFF-USN-1H	P2			OFFUSNSR109/14/62800200 / 9 cardboard boxes containing an ICC approved container of waste papers, tools, glassware and similar laboratory items. All waste materials sealed inside double plastic bags, inside containers. (Unknown weight for Cs-137 and Co-60; <1 total curie)	38	60' E & 246' N of SW pit marker
OFF-USN-1H	P2			OFFUSNSR103/07/63800200 / 10 cardboard boxes containing ICC approved containers of waste papers, tools, glassware and similar laboratory items. All waste material sealed inside double plastic bags, inside containers. (Unknown weight of Cs137 and Co60; <1 curie)	160	150' East of West pit marker
OFF-USN-1H	P2			OFFUSNSR105/09/6381020 / 3 55-gal drums containing waste papers, tools, glassware and similar laboratory items. All waste material sealed inside plastic bags, inside drums. (Unknown weight for Cs-137 and Co-60; <1 curies)	36	75' East of West markers
OFF-USN-1H ?	P2/3			OFFUSNSR103/30/62801/ 40 cardboard boxes, each package consists of an ICC approved container of waste papers, towels, glass, tools and similar laboratory items (Cs-137, Co-60, < 1 Ci)	160	Pit 3: Begin at a point 120' South and 7' West from NE pit marker and run 8' West and 10' South. Pit 2: 214' West and 3' North from SE pit marker run 6' West and 6' ?
OFF-USN-1H	P3			OFFUSNSR104/15/62800200 / 40 -cardboard boxes containing waste paper, towels, glassware, tools and similar laboratory items. All waste material sealed inside double plastic bags, inside containers. (Unknown weight for Cs137 & Co60, <1 curie)	160	Begin at a point 142' South & 0' West from NE pit marker. Run 10' West & 10' South.

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
OFF-USN-1H	P3			OFFUSNSR105/15/62800200 / 9-cardboard boxes containing waste paper, towels, glassware, tools and similar laboratory items. All waste material sealed inside double plastic bags, inside containers. (Unknown weight for Cs137 & Co60, <1 curie)	38.2	Begin at a point 224' South & 75' East from NW pit marker. Run 8' East & 6' South.
OFF-USN-1H	P3			OFFUSNSR105/21/62800200 / 23-cardboard boxes containing waste paper, towels, glassware, tools and similar laboratory items. All waste material sealed inside double plastic bags, inside containers. (Unknown weight for Cs137 & Co60, <1 curie)	55	Begin at a point 285' South & 70' East from NW pit marker. Run 10' South & 10' East.
OFF-USN-1H	P3			OFFUSNSR105/21/62810200 / 23-cardboard boxes containing waste paper, towels, glassware, tools and similar laboratory items. All waste material sealed inside double plastic bags, inside containers. (Unknown weight for Cs137 & Co60, <1 curie)	55	Begin at a point 285' South & 70' East from NW pit marker. Run 10' South & 10' East.
OFF-USN-1H	P3			OFFUSNSR105/28/62800200 / 40-cardboard boxes containing waste paper, towels, glassware, tools and similar laboratory items. All waste material sealed inside double plastic bags, inside containers. (Unknown weight for Cs137 & Co60, <1 curie)	160	Begin at a point 326' South & 80' East of NW marker. Run 10' East & 6' South.
OFF-USN-1H	P3			OFFUSNSR105/30/62800200 / 14-cardboard boxes containing waste paper, towels, glassware, tools and similar laboratory items. All waste material sealed inside double plastic bags, inside containers. (Unknown weight for Cs137 & Co60, <1 curie)	44	Begin at a point 224' South & 75' East from NW pit marker. Run 8' East & 6' South.
OFF-USN-1H	P3			OFFUSNSR105/30/62810200 / 40-cardboard boxes containing waste paper, towels, glassware, tools and similar laboratory items. All waste material sealed inside double plastic bags, inside containers. (Unknown weight for Cs137 & Co60, <1 curie)	160	120' North & 20' West of SE #3 pit marker.
OFF-USN-1H	P3			OFFUSNSR106/01/62800200 / 40-cardboard boxes containing waste paper, towels, glassware, tools and similar laboratory items. All waste material sealed inside double plastic bags, inside containers. (Unknown weight for Cs137 & Co60, <1 curie)	160	91' North & 30' West of SE #3 pit marker.

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
OFF-USN-1H	P3			OFFUSNSR106/15/62800200 / 21-cardboard boxes containing waste paper, towels, glassware, tools and similar laboratory items. All waste material sealed inside double plastic bags, inside containers. (Unknown weight for Cs137 & Co60, <1 curie)	160	100' North & 30' West of SE pit marker.
OFF-USN-1H	P3			OFFUSNSR106/15/62810200 / 40-cardboard boxes containing waste paper, towels, glassware, tools and similar laboratory items. All waste material sealed inside double plastic bags, inside containers. (Unknown weight for Cs137 & Co60, <1 curie)	49	30' East & 45' North of SE #3 pit marker.
OFF-USN-1H	P3			OFFUSNSR106/30/62800200 / 40-cardboard boxes containing waste paper, towels, glassware, tools and similar laboratory items. All waste material sealed inside double plastic bags, inside containers. (Unknown weight for Cs137 & Co60, <1 curie)	69	30' East & 60' North of SE #3 pit marker.
OFF-USN-1H	P3			OFFUSNSR108/30/6270022 / 14-cardboard boxes containing waste paper, towels, glassware, tools and similar laboratory items. All waste material sealed inside double plastic bags, inside containers. (Unknown weight for Cs137 & Co60, <1 curie)	44	40' North & 30' West of SE pit marker
OFF-USN-1H	P3			OFFUSNSR109/07/6280120022 / 25-cardboard boxes containing waste paper, towels, glassware, tools and similar laboratory items. All waste material sealed inside double plastic bags, inside containers. (Unknown weight for Cs137 & Co60, <1 curie)	160	10' East & 4' North of SW pit marker
OFF-USN-1H	P3			OFFUSNSR109/10/62800200 / 27-cardboard boxes containing waste paper, towels, glassware, tools and similar laboratory items. All waste material sealed inside double plastic bags, inside containers. (Unknown weight for Cs137 & Co60, <1 curie)	160	10 ft. West & 30 ft. North of SE pit marker
OFF-USN-1H	P3			OFFUSNSR109/21/62800200 / 12-cardboard boxes containing waste paper, towels, glassware, tools and similar laboratory items. All waste material sealed inside double plastic bags, inside containers. (Unknown weight for Cs137 & Co60, <1 curie)	34	15 yds. East & 8 yds. North of SW pit marker.
OFF-USN-1H	P3			OFFUSNSR109/28/62800200 / 13-cardboard boxes containing waste paper, towels, glassware, tools and similar laboratory items. All waste material sealed inside double plastic bags, inside containers. (Unknown weight for Cs137 & Co60, <1 curie)	44	10 yds. West & 5 yds. North of SE pit marker

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
OFF-USN-1H	P3			OFFUSNSR111/15/62810200 / 10-cardboard boxes containing waste paper, towels, glassware, tools and similar laboratory items. All waste material sealed inside double plastic bags, inside containers. (Unknown weight for Cs137 & Co60, <1 curie)	40	10 yds. West & 4 yds. North of SE pit marker
OFF-USN-1H	P3			OFFUSNSR111/15/62820200 / 18-cardboard boxes containing waste paper, towels, glassware, tools and similar laboratory items. All waste material sealed inside double plastic bags, inside containers. (Unknown weight for Cs137 & Co60, <1 curie)	53	10 yds. West & 5 yds. North of SE pit marker
OFF-USN-1H	P3			OFFUSNSR111/29/62800200 / 8-cardboard boxes containing waste paper, towels, glassware, tools and similar laboratory items. All waste material sealed inside double plastic bags, inside containers. (Unknown weight for Cs137 & Co60, <1 curie)	160	10 yds. East & 4 yds. North of SW pit marker
OFF-USN-1H	P3			OFFUSNSR111/30/62800200 / 16-cardboard boxes containing waste paper, towels, glassware, tools and similar laboratory items. All waste material sealed inside double plastic bags, inside containers. (Unknown weight for Cs137 & Co60, <1 curie)	78	10 yds. East & 4 yds. North of SW pit marker
OFF-USN-1H	P3			OFFUSNSR112/10/6280020022 / 10-cardboard boxes containing waste paper, towels, glassware, tools and similar laboratory items. All waste material sealed inside double plastic bags, inside containers. (Unknown weight for Cs137 & Co60, <1 curie)	46	10 yds. West & 4 yds. North of SE pit marker
OFF-USN-1H	P3			OFFUSNSR112/11/62800200 / 8-cardboard boxes containing waste paper, towels, glassware, tools and similar laboratory items. All waste material sealed inside double plastic bags, inside containers. (Unknown weight for Cs137 & Co60, <1 curie)	160	6 yds. West & 4 yds. North of SE pit marker
OFF-USN-1H	P3			OFFUSNSR112/12/62800200 / 24-cardboard boxes containing waste paper, towels, glassware, tools and similar laboratory items. All waste material sealed inside double plastic bags, inside containers. (Unknown weight for Cs137 & Co60, <1 curie)	90	5 yds. West & 5 yds. North of SE pit marker
OFF-USN-1H	P3			OFFUSNSR112/13/6280020022 / 7-cardboard boxes containing waste paper, towels, glassware, tools and similar laboratory items. All waste material sealed inside double plastic bags, inside containers. (Unknown weight for Cs137 & Co60, <1 curie)	45	5 yds. East & 4 yds. North of SW pit marker

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
OFF-USN-1H	P3			OFFUSNSR112/15/62800200 / 13-wooden boxes containing waste paper, towels, glassware, tools and similar laboratory items. All waste material sealed inside double plastic bags, inside containers. (Unknown weight for Cs137 & Co60, <1 curie)	40	8 yds. West & 4 yds. North of SE pit marker
OFF-USN-1H	P4			OFFUSNSR106/24/63800 / 10 boxes, each contains paper, tools, glassware and similar laboratory items. All waste material sealed inside double plastic bags inside containers (Co-60, Cs-137, < 1 Ci)	24	0+8' from North side 2+75 from West end
OFF-USN-1H	P4			OFFUSNSR107/01/63800 / 11 boxes each containing paper, tools, glassware and similar laboratory items. All waste material sealed inside double plastic bags inside containers (Co-60, Cs-137, < 1 Ci)	160	0+80from North side 2+75 from West end
OFF-USN-1H	P4			OFFUSNSR107/24/63800 / 19 boxes each containing waste paper, tools, glassware and similar laboratory items. All waste material sealed inside double plastic bags inside containers (Co-60, Cs-137, < 1 Ci)	RWMIS: 57	1+90 from West end 0+90 from North side
OFF-WCC-1H				Paper, rags, furnace coke, carbon baffles, wax, brick refractory and small hand tools. (1961 - 1961) (4.53 m3) This waste stream is listed in the HDT. This is the only waste stream for this source	160	
OFF-WCC-1H	P2			OFFWCCSR110/09/6180040 / 40 unknown containers containing unknown contents (Unknown isotopes & curie amount) RWMIS: concrete masonry, (MFP 0 Ci)	160	Begin at a point 230' W & 10' N from SE pit marker run 25' N & 3' W. Burial row # 74
OFF-WSU-1H		Ethyl Alcohol - Unk(PUL 180 kg) Methyl Alcohol - Unk(PUL 180 kg) 1,4-Bis(5-Phenyloxazol-2-YL)Benzene - Unk(ULE 200 kg) Toluene -Unk(PUL 200 kg)	Unk(PUL 180 kg) Unk(PUL 180 kg) Unk(ULE 200 kg) Unk(PUL 200 kg)	Bird, animal and crayfish carcasses. Kim wipes, paper towels, gloves, aluminum and stainless steel plackets. (1962 - 1962) (2.15 m3) This waste stream is listed in HDT. This is the only waste stream for this source.	76	
OFF-WSU-1H	P3	Ethyl Alcohol Methyl Alcohol 1,4-Bis(5-Phenyloxazol-2-YL)Benzene Toluene		OFFWSUSR105/28/6280010 / RWMIS: 8 55-gal drums containing animal carcasses, paper, metal and wood. (Unknown weight for H3, C14, P32, S35, Ca45, Co60, Zn65, Sr8, Rb86, I131, Cs137, Ce144, Pa147, Tl204, U238, <0.01 Ci)	76	Begin at a point 290' South & 50' East from NW pit marker. Run 15' East & 3' South.

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
PER-601-1H		Lead - 200 lb Cadmium - 10 lb Acetone - 39 lb 2-Butanone - 39 lb Trichloro-ethylene - 390 lb Silver - 1 lb 1,1,1-Tri-chloroethane - 78 lb	200 lb* 10 lb* 39 lb* 39 lb* 390 lb* 1 lb* 78 lb*	PER-601 Control Building and Addition - Combustibles (paper, cloth, wood, etc.). (1960 - 1970) (278.0 m3) This waste stream is listed in the HDT.	9817.5	
PER-601-1H ?	P3			PER601SR001/19/61800501 / 2 boxes containing gross fission products (Unknown isotope; 0.02 total curies)	24	30' S of NE corner
PER-601-1H ?	P3			PER601SR004/18/61800100 / 2 boxes containing waste fission products (Unknown isotope;<0.001 total curies)	24	1+00' S & 0+45' W
PER-601-1H?	P3			PER601SR011/30/61800100 / Miscellaneous scrap metal, fission products and activated metals (Unknown isotope;<0.01 total curies)	81	1+20' S & 0+15' W
PER-601-1H	P4			PER601SR005/06/661 / Paper, metal, wire, glass (unknown isotope, 0.03 uCi)	60	315' West & 35' North of SE Monument
PER-601-1H	P4			PER601SR005/13/661 / Metal, wire, wood, weeds (MFP, 1E-05)	50	305' West of the SE Monument
PER-601-1H ?	P4			PER601SR005/12/662 / scrap metal from SPERT I reactor (MFP, 1E-05)	50	310' West of the N/E Monument
PER-601-1H ?	P5			PER601SR007/20/65800 / Heavy metal pump parts and brass components. Discarded, contaminated parts returned for burial from Byron-Jackson Co., I.A., Ca. (Contaminated surfaces on metal; gross fission) (unknown isotope, 3.0 uCi) (This waste may contain hazardous constituents.)	25	75' East of S/W Monument
PER-601-1H ?	P9			PER601SR004/18/6980020010 / Powder and granular UO ₂ from the (1) CDC test fuel rod, 10% enriched SPXMG-8 (2.0 gms (U-235), 0.000004 Ci)	0.25	85-90' East of NW Monument
PER-601-1H ?	P9			PER601SR004/21/6980020010 / Powder and granular UO ₂ from the (4) CDC test fuel rod, 10% enriched SPXM-C-515, 517, 518 & SPXMG-9 (UO ₂ , U-235 10gm) 0.000021 Ci)	2	85-90' East of NW Monument
PER-601-1H ?	P9			PER601SR004/21/6981020010 / Powder and granular UO ₂ from the (5) CDC test fuel rod, 5% enriched SPXM-B-508, 524, 531, 533, 563 (remains) (UO ₂ , U-235 9 gm, 1.90E-05 Ci)	2	85-90' East of NW Monument
PER-601-1H ?	P9			PER601SR005/27/6980000 / Rags, paper, metal, plastic, etc. (unknown isotope, <0.001 Ci)	96	85-90' East of NW Monument

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
PER-601-1H ?	P10			PER601SR003/11/70800 / RWMIS: Rad waste NOS, (unknown isotope, <1 mCi)	500	Station 2+50 SW
PER-601-1H ?	P10			PER601SR003/18/70800 / Mechanical components contaminated externally and internally (unknown isotope, 0.275 Ci)	500	360' West & 10' South of NE Monument
PER-601-1H ?	P10			PER601SR003/18/70810 / Mechanical components (fuel, birdcages, etc.) (unknown isotope, <1 mCi)	500	300' West & 40' South of NW Monument
PER-601-1H ?	P10			PER601SR003/23/70810 / Mechanical components (unknown isotope, <0.001 Ci)	500	355' West & 10-30' South of NE Monument
PER-601-1H ?	P10			PER601SR003/24/70800 / RWMIS: Metal comp. (unknown isotope, 0.028 Ci)	500	360' West & 20-30' South of NE Monument
PER-601-1H ?	P10			PER601SR003/25/70800 / Mechanical components (unknown isotope, 1.1 Ci)	300	360' West & 35-40' South of NE Monument
PER-601-1H ?	P10			PER601SR003/30/70800 / Metal components from GCRE building. Contaminated during reactor operations (unknown isotope, 0.02 Ci)	200	360' West & 30' South of NE Monument
PER-613-1H		Acetone (71-82) - 78 lb Lead (71-82) - 1000 lb Silver (79-82) - 2 lb 2-Butanone (71-82) - 23.4 lb Trichloroethylene (71-82) - 78 lb Cadmium (71-82) - 4 lb	78 lb* 1000 lb* 2 lb* 23.4 lb* 78 lb* 4 lb*	PER-613 Mixed Waste Storage Facility - Core structure components, reactor vessel and loop components. (1971 - 1980) This waste stream is listed in the HDT.		
PER-620-1H		Acetone (70-83) - 39 lb Lead (81-83) - 2000 lb Silver (70-83) - 10 lb Chromium (70-83) - 1 lb 1,1,1-Tri-chloroethane (70-83) - 15.6 lb Asbestos (70-83) - 20 lb Hydrazine (70-83) - 3.9 lb Toluene (78-83) - 23.4 lb	39 lb* 2000 lb* 10 lb* 1 lb* 15.6 lb* 20 lb* 3.9 lb* 23.4 lb*	PER-620 Reactor Building - Paper, cloth, wood, resin, insulation, batteries, concrete, asphalt, and radioactive sources. (1970 - 1983) This waste stream is listed in HDT.		
PER-620-1H ?	P10	??		PER620SR003/31/71213 / Contaminated metal scrap with excess equipment from ? Reactor operation (unknown isotope, <1.0 mCi)	150	280-310' West & 5-20' South of NE Monument

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
PER-ORM-1H		Acetone (60-66) - 39 lb Lead (60-66) - 1200 lb Xylene (60-66) - 780 lb Trichloro-ethylene (60-66) - 390 lb 1,1,1-Tri-chloroethane (60-66) - 390 lb Asbestos (60-66) - 5 lb Antimony (63-63) - 1 lb Toluene (60-66) - 390 lb	39 lb* 1200 lb* 780 lb* 390 lb* 390 lb* 5 lb* 1 lb* 390 lb*	Paper, cloth, wood, barrels of Santo-R wax, and empty barrels. Waste is from OMRE reactor. Waste from this facility is reported as PER AII on RWMIS. (Santo-R wax is not hazardous per Ken Gilbert). (1960 - 1966) (914.6 m3) This waste stream is listed in the HDT.	32,298.80	
PER-ORM-1H ?	P4	Organic waste		PERAIISR006/24/63800 / Organic wastes and residue in 51 55 gallon drums (unknown isotope, 0.7 Ci)	365	2+25 from West, 0+50 from North
PER-ORM-1H ?	P4	Organic waste		PERAIISR007/10/63800 / Organic wastes and residue in 56 full 55 gallon drums and 7 empty drums (unknown isotope, 0.75 Ci)	500	2+75 and 3+35
PER-ORM-1H ?	P4	Organic waste		PERAIISR007/12/63810 / Organic wastes and residues in drums of absorbent, 42 full, 2 empties (unknown isotope, 1.4 Ci)	404	2+90 from West end, 0+80 from North side
PER-ORM-1H ?	P4	Organic waste		PERAIISR007/19/63800 / Organic wastes, cardboard, wood, steel, 2 full drums, and empty drums (unknown isotope, 100 mCi)	50	300' from West end, 180' from North side
PER-ORM-1H ?	P4	Organic waste		PERAIISR008/03/63742 / Organic Wastes and residues, empty drums, steel and wood, miscellaneous scrap (unknown isotope, 50 mCi)	450	200' from West end, 80' from North side
PER-ORM-1H ?	P2			PERAIISR009/28/62800 / Scrap metal, barrels, pipe, etc. (unknown isotope 0.0005 Ci)	54	450' E of NE marker
PER-ORM-1H ?	P3			PERAIISR001/30/6180021 / Unknown number of boxes containing rags, lumber, paper (Unknown isotope; 0.0015 total millicuries)	270	0+20' W & 0+30' S
PER-ORM-1H ?	P3			PERAIISR002/27/6180021 / Unknown number of boxes containing lumber, rags, paper and some metal (Unknown isotope; 0.00033 total curies)	216	0+40' S & 0+50' W
PER-ORM-1H ?	P3			PERAIISR004/07/61800153 / Unknown number of box and barrel containers containing rags, lumber, paper, steel (Unknown isotope; 0.015 total curies)	324	0+85' S & 0+15' W
PER-ORM-1H ?	P3			PERAIISR004/14/6180020 / Unknown number of boxes containing paper, rags, lumber (Unknown isotope; 0.002 total curies)	270	0+90' S & 0+50' W
PER-ORM-1H	P3			PERAIISR004/25/6180041 / Unknown number of boxes containing rags, paper, lumber and 1 barrel (Unknown isotope; 0.004 total curies)	216	1+10' S & 0+55' W

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
PER-ORM-1H ?	P3			PERAIIISR005/12/6180021 / Unknown number of boxes containing rags, lumber, paper (Unknown isotope; 0.0003 total curies)	216	Unknown
PER-ORM-1H ?	P3			PERAIIISR006/06/61800 / Unknown number of boxes containing boxes, rags, paper, lumber and etc. (Unknown isotope; 0.0001 total curies)	297	1+10' S & 0+30' W
PER-ORM-1H ?	P3			PERAIIISR006/27/6180062 / Unknown number of boxes containing lumber, rags, paper and etc. (Unknown isotope; <0.001 total curies)	216	1+45' S & 0+25' W
PER-ORM-1H ?	P3			PERAIIISR007/18/6180000 / Unknown number of boxes containing rags, lumber, paper etc. (Unknown isotope; <0.000066 total curies)	270	0+6' W & 0+75' S
PER-ORM-1H ?	P3			PERAIIISR007/28/6180010 / Unknown number of boxes containing rags, lumber, paper etc. (Unknown isotope; <0.0001 total curies)	216	0+85' S & 0+45' W
PER-ORM-1H ?	P3			PERAIIISR008/17/6180010 / Unknown number of boxes containing lumber, rags, paper etc. (Unknown isotope; <0.0001 total curies)	270	1+25' S & 0+20' W
PER-ORM-1H ?	P3			PERAIIISR008/23/618005 / 5 Truck loads containing old piping, lagging, filters, reactor parts, boxes, lumber. (Unknown isotope; <0.030 total curies)	162	1+20' S & 0+70' W
PER-ORM-1H ?	P3			PERAIIISR008/23/618105 / 5 truckloads containing old piping, lagging, filters, reactor parts, boxes, lumber. (Unknown isotope; <0.030 total curies)	162	1+20' S & 0+70' W
PER-ORM-1H ?	P3			PERAIIISR008/24/6180010 / Unknown number of plastic containers containing steel, lumber and old pipes (Unknown isotope; <0.001 total curies)	108	1+20' S & 0+70' W
PER-ORM-1H ?	P3			PERAIIISR008/24/6181010 / Plastic containers containing old filters, lumber, pipe and a reactor component (Unknown isotope; Unknown curie amount)	216	1+20' S & 0+70' W
PER-ORM-1H ?	P3			PERAIIISR008/28/6180081 / Unknown number of boxes containing boxes, lumber, rags, etc. (Unknown isotope; 0.008 total curies)	270	1+20' S & 0+30' W
PER-ORM-1H ?	P3			PERAIIISR009/05/6180030 / Unknown number of boxes containing lumber, rags, paper, etc. (Unknown isotope; 0.0005 total curies)	243	0+30' W & 1+20' S
PER-ORM-1H ?	P3			PERAIIISR010/30/6180010 / 125 MT 55-gal drums. RWMIS: Rad waste NOS (Unknown isotope; 0.01 total curies)	925	0+70' S & 0+30' W

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
PER-ORM-1H ?	P3			PERAIIISR010/31/6180020 / Unknown number of boxes containing rags, lumber, paper, etc. (Unknown isotope; 0.005 total curies)	270	1+60' S & 0+50' W
PER-ORM-1H ?	P3			PERAIIISR011/14/6180010 / Unknown number of boxes containing rags, lumber, paper, etc. (Unknown isotope; <0.001 total curies)	324	0+95' S & 0+30' W
PER-ORM-1H ?	P3			PERAIIISR011/21/6180040 / Unknown number of boxes containing rags, lumber, paper, etc. (Unknown isotope; 0.004 total curies)	216	Unknown
PER-ORM-1H ?	P3			PERAIIISR012/12/6180020 / Unknown number of boxes containing rags, lumber, paper, boxes, etc. (Unknown isotope; 0.00003 total curies)	297	1+20' S & 0+30' W
PER-ORM-1H ?	P3			PERAIIISR012/29/6180010 / Unknown number of boxes containing rags, lumber, boxes, etc. (Unknown isotope; <0.00001 total curies)	243	0+95' S & 0+65' W
PER-ORM-1H ?	P3			PERAIIISR002/02/6280021 / Unknown box containers containing rags, lumber, paper (Unknown isotope; 0.0015 total curies)	108	1+25' S & 0+55' W
PER-ORM-1H ?	P3			PERAIIISR003/16/6280000 / Unknown number of containers containing boxes, rags, lumber, etc. (Unknown isotope; <0.0003 total curies)	270	1+30' S & 0+65' W
PER-ORM-1H ?	P3			PERAIIISR004/05/6280000 / Unknown number of boxes containing rags, lumber, paper, etc. (Unknown isotope; <0.000003 total curies)	16	125' S & 25' W of NE #3 trench marker
PER-ORM-1H ?	P4			PERAIIISR008/14/63194 / Metal boxes, wood, misc waste (unknown isotope, 5 mCi)	150	125' from West end, 80' from North side
PER-ORM-1H ?	P4			PERAIIISR008/21/63194 / Wood, Steel, misc. (unknown isotope, 2 mCi)	150	130' from West end, 90' from North side
TAN-603-1H				TAN-603 Service Building/Steam Plant - TAN-603 contaminated piping and insulation. (1963 - 1971) (47.1 m3) This waste stream is listed in the HDT.	1,663.3	
TAN-603-1H ?	P10			TAN603SR006/15/71160 / Contaminated piping and insulation (mixed fission products 0.001 Ci)	368	265' West & 95' South of NE pit marker

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
TAN-603-1H ?	P10			TAN603SR006/14/71800 / Contaminated piping (mixed fission products 0.001 Ci)	396	275' West & 60' South of NE pit marker
TAN-607-1H		Nickel - 1095 gm Chromium - 275 gm	1095 gm* 275 gm*	TAN-607 Hot Shop/Manufacturing & Assembly - Decontamination and disposed contaminated parts from GE-ANP HTRE No. 1 IET #3, #4, and #6 tests. Contaminated stainless steel engine parts, insulation shrouds, and contaminated rags and paper used in decontamination. Packaged in fiberboard or metal barrels. (1956 - 1956) (? m3) This waste stream is listed in the HDT.		
TAN-607-2H		Beryllium Oxide - Unk*(no est.)	Unk*(no est)	TAN-607 Hot Shop/Manufacturing & Assembly - Contamination and contaminated parts from GE-ANP HTRE-2 testing (IET #-8 through #26). Packaged in fiberboard or metal barrels. (1957 - 1961) (? m3) This waste stream is listed in the HDT.		
TAN-607-2H ?	P3			TAN607SR003/07/6180025 / Unknown number of jet can containers with unknown contents. RWMIS: Rad waste NOS. 25 mr/hr at surface; no external contamination. (Unknown isotope; 4 total curies)	900	0+69 N & 0+06 W continuing 66' N
TAN-607-2H ?	P3			TAN607SR004/11/618004025 / 1 dempster dumpster load containing waste - metal, wood (Unknown isotope; <0.01 total curies)	324	0+85 S & 0+15 W
TAN-607-2H ?	P3			TAN607SR004/11/618101010 / Unknown number of fiber barrels containing CNOS (Unknown isotope; <0.01 total curies)	162	1+00 S & 0+15 W
TAN-607-2H ?	P3			TAN607SR005/22/61820200 / Unknown number of dumpsters containing CNOS (Unknown isotope; <1 total curies)	324	Unknown
TAN-607-2H ?	P3			TAN607SR006/02/61800100 / Unknown number of dumpsters containing scrap. Radioactive and contamination. (Unknown isotope; ~0.002 total curies)	324	Unknown
TAN-607-2H ?	P3			TAN607SR006/04/6180020 / Unknown containers containing cinder block, waste paper. Slight contamination. (Unknown isotope; <0.01 total curies)	324	Unknown
TAN-607-2H ?	P3			TAN607SR006/08/6181051 / Unknown number of containers containing ducting ~100 linear feet, 2' diameter pieces are 6' to 20' long and fan 8'x8'x6'. (Unknown isotope; <5 total curies)	600	1+20 N & 0+05 W

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
TAN-607-2H ?	P3			TAN607SR006/08/6182010 / Unknown number of truck loads (probably 2) containing scrap metal. Contaminated (f.p.) inside, outside generally <100 c/m. (Unknown isotope; <1 total curies)	700	66' N & 10' W run for 60'
TAN-607-2H ?	P3			TAN607SR006/13/61800100 / Unknown number of dumpsters containing scrap. Radioactive and contamination. (Unknown isotope; 0.001 total curies)	324	0+5 W & 1+10 S
TAN-607-2H ?	P3			TAN607SR009/26/61800203 / Unknown number of plastic containers containing 2 jet engines-contaminated. Serial numbers 5018 - 5026. Contamination on exposed surfaces less than 500 d/m - 100cm ³ . (Unknown isotope; ~1 total curies)	360	0+60 N & 0+10 W run 45' N
TAN-607-2H ?	P3			TAN607SR009/26/61810203 / Unknown number of plastic containers containing 3 jet engines-contaminated. Serial numbers 5019 - 5021 - 5022. Contaminated on exposed surface less than 500 d/m - 100cm ² . (MFP - 5.0E-01; MAP - 5.0E-01; ~1 total curies)	540	0+55 N & 0+20 W runs 36' N
TAN-607-2H ?	P3			TAN607SR009/26/61820203 / Unknown number of plastic containers containing 2 jet engines-contaminated. Serial numbers 5027 - 5028. Contaminated on exposed surfaces less than 500 d/m - 100cm ³ . (Unknown isotope; ~1 total curies)	360	0+30 N & 0+15 W
TAN-607-3H		Beryllium (62-62) - Unk (no est.) Lead (62-62) - Unk (no est.) Mercury (62-62) - Unk (no est.) Ether (62-62) -Unk (no est.)	Unk (no est) Unk*(no est) Unk*(no est) Unk*(no est)	TAN-607 Hot Shop/Manufacturing & Assembly - Activated SL-1 reactor parts contaminated during SL-1 reactor accident of Jan. 3, 1961, and activated experiment and fuel element associated stainless steel. (1962 - 1963) (653.0 m3) This waste stream is listed in the HDT.	23,060.50	
TAN-607-3H ?	P2	Lead	??	TAN607SR010/11/62800100 / Stainless and Lead (unknown isotope, 0.02 Ci)	80	240' East of West pit marker
TAN-607-3H?	P2			TAN607SR007/09/62800100030 / Turbo - Generator (from SL-1) (unknown isotope, <1 Ci)	250	501' East of NW pit marker
TAN-607-3H ?	P2			TAN607SR009/26/628105010 / Aluminum	1200	300' West of NW #2 pit marker
TAN-607-3H ?	P2			TAN607SR010/10/62800200003000 / Metal box. SL-1 shrouds (unknown isotope, 60Ci)	216	Perpendicular to N and W fence posts at 76' North to 78' North and 8' West to 9' West

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
TAN-607-3H ?	P2			TAN607SR010/16/62800 / Unknown, (unknown isotope 1.5 Ci.) RWMIS: Metal comp	24	Perpendicular to N and W fence posts at 76' North to 78' North and 8' West to 9' West
TAN-607-3H ?	P2			TAN607SR010/16/628103000300 / Metal (?) and piping. (unknown isotope 5.0 Ci.)	96	Perpendicular to N and W fence posts at 76' North to 78' North and 8' West to 9' West
TAN-607-3H ?	P2			TAN607SR010/16/6282020020 / Roof section SL-1 Reactor building (unknown isotope, 1 Ci)	192	Perpendicular to N and W fence posts at 76' North to 78' North and 8' West to 9' West
TAN-607-3H ?	P2			TAN607SR010/16/6283030 / Metal SL-1 top pressure vessel plug (unknown isotope, 1 Ci)	64	Perpendicular to N and W fence posts at 76' North to 78' North and 8' West to 9' West
TAN-607-3H ?	P2			TAN607SR010/23/628005000120 / End boxes shrouds dummy fuel element (?) misc. scrap from SL-1 (unknown isotope, 1.5 Ci)	64	Perpendicular to N and W fence posts at 76' North to 78' North and 8' West to 9' West
TAN-607-3H ?	P2			TAN607SR010/23/6281050000600 / something containing SL-1 something RWMIS: metal comp (100 Ci, mixed activation products).	216	Perpendicular to N and W fence posts at 76' North to 78' North and 8' West to 9' West
TAN-607-3H ?	P2			TAN607SR010/23/6282010000 / SL-1 pressure vessel (1/2) (unknown isotope, 10 Ci)	16	Perpendicular to N and W fence posts at 82' North and 98' West
TAN-607-3H ?	P2			TAN607SR010/25/62800150000 / End boxes and miscellaneous scrap from SL-1 fuel elements (unknown isotope, 100 Ci)	164	Perpendicular to N and W fence posts at 8' North and 8' West

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
TAN-607-4H		Beryllium - 22 kg Lead - Unk	22 kg Unk	TAN-607 Hot Shop/Manufacturing & Assembly - Reactor and auxiliary components from ML-1, PM-2A, and 2 SNAPTRAN Systems. The majority of the volume is routine radioactive waste and is therefore paper, cloth, and plastic, contaminated during decontamination. (1964 - 1966) (255.0 m3) This waste stream is listed in the HDT.	9005	
TAN-607-4H ?	P5	Lead		TAN607SR007/31/64125 / Lead and steel scrap, 24 GE actuator rods scrap (unknown isotope, 1.7 mCi)	1080	100' South of N/W Marker
TAN-607-4H?	P6	Lead		TAN607SR006/07/68800 / Lead and steel scrap, 24 GE actuator rods scrap (unknown isotope, 1.7 mCi)	30	20-30' North & 70-80' West of the SE Monument
TAN-607-4H ?	P4			TAN607SR009/27/63800 / Festooning and Scrap Wood (unknown isotope, 0.2 Ci)	96	125' from West end, 20' from North side
TAN-607-4H ?	P4			TAN607SR004/17/642 / Miscellaneous surplus parts and equipment for disposal (unknown isotope, 2.4 uCi)	1600	100' from East end on North side
TAN-607-4H ?	P4			TAN607SR004/21/64113 / Radioactive scrap metal comp. radioactive <200 cpm bg <10, a 2 - handle with gloves (unknown isotope, <5.5 mCi)	RWMIS: 8	150' from East end on North side
TAN-607-4H ?	P4			TAN607SR004/28/64140 / Metal, wood and rubble (unknown isotope, 0.11 mCi)	128	490' from East end, 600' from South side (RWMIS: 4 + 90 E)
TAN-607-4H ?	P4			TAN607SR005/28/64112 / weeds (unknown isotope, 0.002 Ci)	273	5+25
TAN-607-4H ?	P4			TAN607SR012/03/65800 / Critical experiment waste, a contamination to 200 counts/minute (unknown isotope, 0.001 Ci)	240	320' West and 25' North of SE Monument
TAN-607-4H ?	P4			TAN607SR005/16/661 / Schedule 140 steel pipe, refueling machine, 046 fixture (unknown isotope, 10 uCi)	5750	310' West of the SE Monument
TAN-607-4H ?	P4			TAN607SR005/17/661 / Schedule 140 steel pipe, refueling machine, machine support structure (unknown isotope, 25 uCi)	5750	295' West & 15' North of the SE Monument
TAN-607-4H ?	P4			TAN607SR007/22/66220 / Wood skid & metal scrap (unknown isotope, 0.004 Ci)	250	240' West of the SE Monument

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
TAN-607-4H ?	P4			TAN607SR007/27/66125 / Scrap metal, plywood boxes, angle iron, stainless steel, scrap lumber, and rubber hose (unknown isotope, 0.041 Ci)	500	250' West of the SE Monument
TAN-607-4H ?	P4			TAN607SR008/01/662 / Wood, Rubber, Metal scrap- RPSSA (unknown isotope, 0.0165 Ci)	600	220' West of the SE Monument
TAN-607-4H ?	P4			TAN607SR008/06/66116 / Wooden boxes(7), cardboard boxes(8), card(1) boxes (unknown isotope, 5.5 mCi)	220	110' West of the SE Monument
TAN-607-4H ?	P4			TAN607SR010/18/661 / Sewage sludge (unknown isotope, 0.003 Ci)	162	265' West and 25' North of SE Monument
TAN-607-4H ?	P4			TAN607SR010/20/661 / Sewage sludge (unknown isotope, 0.004 Ci)	162	275' West and 20' North of SE Monument
TAN-607-5H ?	P4			TAN607SR011/17/66800 / Empty contaminated 55 gal drums (unknown isotope, <0.01 Ci) (Prior doc. id was TAN607LR011/17/66800.)	595	Unknown
TAN-607-4H ?	P4			TAN607SR011/14/66800 / Concrete (unknown isotope, 0.1 mCi)	81	210' South of N/E Monument
TAN-607-4H ?	P5			TAN607SR005/22/64110 / Metal tanks (3), 1 pump, 2 motors & base angle iron (unknown isotope, 5.5 mCi)	128	125' from N/W Corner against West Bank
TAN-607-4H ?	P5			TAN607SR005/22/64320 / Channel iron, carbon steel, plywood box end, stainless steel (unknown isotope, 0.5 Ci)	887	125' from N/W Corner against West Bank
TAN-607-4H ?	P5			TAN607SR008/03/641325 / 14x4x8 wood box, miscellaneous hoses, steel thread plate, aluminum parts (unknown isotope, 0.071 Ci)	425	125' South of NW Corner
TAN-607-4H ?	P5			TAN607SR002/17/66130 / RWMIS: Rad waste NOS, (unknown isotope, <0.001 Ci)	450	90' East & 150' North of S/W Monument
TAN-607-4H ?	P5			TAN607SR002/18/66120 / Scrap metal, wood, and debris (unknown isotope, <0.001 Ci)	450	90' East & 165' North of the S/W Monument
TAN-607-4H ?	P5			TAN607SR003/31/66300 / Dirt (unknown isotope, 0.1 Ci)	81	55' North of the S/W Monument

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
TAN-607-4H ?	P5			TAN607SR003/31/66400 / Scrap RWMIS: Paper, metal, wood	81	40' East & 61' North of S/W Monument
TAN-607-4H ?	P5			TAN607SR003/31/66500 / Dirt (unknown isotope, 0.1 Ci)	135	55' North of the S/W Monument
TAN-607-4H ?	P5			TAN607SR003/31/66600 / Dirt (unknown isotope, 0.1 Ci)	81	55' North of the S/W Monument
TAN-607-4H ?	P5			TAN607SR003/31/66700 / Dirt (unknown isotope, 0.1 Ci)	81	55' North of the S/W Monument
TAN-607-4H ?	P5			TAN607SR004/04/66100 / Contaminated dirt (unknown isotope, 0.1 Ci)	162	75' N/W of the S/W Monument
TAN-607-4H ?	P5			TAN607SR004/04/66200 / Dirt (unknown isotope, 0.1 Ci)	162	75' N/W of the S/W Monument
TAN-607-4H ?	P5			TAN607SR004/07/66100 / Contaminated dirt (unknown isotope, <0.1 Ci)	160	65' N/W of the S/W Monument
TAN-607-4H ?	P5			TAN607SR004/12/66100 / Dirt (unknown isotope, 0.1 Ci)	135	75' North of S/W Monument
TAN-607-4H ?	P5			TAN607SR004/12/66200 / Dirt (unknown isotope, 0.1 Ci)	135	75' North of S/W Monument
TAN-607-4H ?	P5			TAN607SR004/12/66300 / Dirt (unknown isotope, 0.1 Ci)	135	75' North of S/W Monument
TAN-607-4H ?	P5			TAN607SR004/12/66400 / Dirt (unknown isotope, 0.1 Ci)	135	75' North of S/W Monument
TAN-607-4H ?	P5			TAN607SR004/13/66100 / Dirt (unknown isotope, 0.1 Ci)	135	75' N/W of S/W Monument
TAN-607-4H ?	P5			TAN607SR004/13/66200 / Dirt (unknown isotope, 0.1 Ci)	135	75' N/W of S/W Monument
TAN-607-4H ?	P5			TAN607SR004/13/66300 / Dirt (unknown isotope, 0.1 Ci)	135	75' North of S/W Monument
TAN-607-4H ?	P5			TAN607SR004/13/66400 / Dirt (unknown isotope, 0.1 Ci)	135	75' N/W of S/W Monument
TAN-607-4H ?	P5			TAN607SR004/13/66650 / SNAPTRAN 2 reactor frame <0.8 mr/hr in cab of truck (U235, <1.0 Ci)	800	95' North of the S/W Monument

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
TAN-607-4H ?	P5			TAN607SR004/14/66200 / Dirt (unknown isotope, 0.1 Ci)	135	70' North of S/W Monument
TAN-607-4H ?	P5			TAN607SR004/14/66300 / Dirt (unknown isotope, 0.1 Ci)	135	75' North of the S/W Monument
TAN-607-4H ?	P5			TAN607SR004/14/66400 / Dirt (unknown isotope, 0.1 Ci)	135	75' North of the S/W Monument
TAN-607-4H ?	P5			TAN607SR004/15/66100 / Dirt (unknown isotope, 0.1 Ci)	135	75' North of the S/W Monument
TAN-607-4H ?	P5			TAN607SR004/15/66200 / Dirt (unknown isotope, 0.1 Ci)	135	75' North of the S/W Monument
TAN-607-4H ?	P5			TAN607SR004/15/66300 / Dirt (unknown isotope, 0.1 Ci)	135	80' North of the S/W Monument
TAN-607-4H ?	P5			TAN607SR004/15/66400 / Dirt (unknown isotope, 0.1 Ci)	135	80' North of the S/W Monument
TAN-607-4H ?	P5			TAN607SR004/15/66650 / Dirt (unknown isotope, 0.1 Ci)	135	95' North of the S/W Monument
TAN-607-4H ?	P5			TAN607SR004/16/66100 / Dirt (unknown isotope, 0.1 Ci)	135	95' N/W of the S/W Monument
TAN-607-4H ?	P5			TAN607SR004/16/66200 / Dirt (unknown isotope, 0.1 Ci)	135	90' N/W of the S/W Monument
TAN-607-4H ?	P5			TAN607SR004/16/66300 / Dirt (unknown isotope, 0.1 Ci)	135	90' N/W of the S/W Monument
TAN-607-4H ?	P5			TAN607SR004/16/66400 / Dirt (unknown isotope, 0.1 Ci)	135	80' North of the S/W Monument
TAN-607-4H ?	P5			TAN607SR004/16/66500 / Dirt (unknown isotope, 0.1 Ci)	135	85' N/W of the S/W Monument
TAN-607-4H ?	P5			TAN607SR004/16/66600 / Dirt (unknown isotope, 0.1 Ci)	135	85' N/W of the S/W Monument
TAN-607-4H ?	P5			TAN607SR004/21/66100 / Dirt (unknown isotope, 0.1 Ci)	135	85' North of the S/W Monument
TAN-607-4H ?	P5			TAN607SR004/22/66100 / Dirt (unknown isotope, 0.1 Ci)	135	80' North of the S/W Monument

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
TAN-607-4H ?	P5			TAN607SR004/22/66200 / Dirt (unknown isotope, 0.1 Ci)	135	80' North of the S/W Monument
TAN-607-4H ?	P5			TAN607SR004/22/66300 / Dirt (unknown isotope, 0.1 Ci)	135	85' North of the S/W Monument
TAN-607-4H ?	P5			TAN607SR004/29/66100 / Contaminated waste (unknown isotope, 0.001Ci)	250	90' North of the S/W Monument
TAN-607-4H ?	P5			TAN607SR005/27/66150 / Steel platform, heat exchanger, lumber (unknown isotope, 5.5 mCi)	297	90' North & 70' East of S/W Monument
TAN-607-4H ?	P5			TAN607SR011/15/66810 / Standard mix concrete (unknown isotope, 0.1 mCi)	108	200' South of N/E Monument
TAN-607-4H ?	P5			TAN607SR011/23/66800 / Concrete (unknown isotope, 0.1 mCi)	189	15' East & 135-150' North of S/W Monument
TAN-607-4H ?	P5			TAN607SR011/23/66810 / Concrete and pipe (unknown isotope, 0.1 mCi)	108	190' North & 60-75' East of S/W Monument
TAN-607-4H ?	P5			TAN607SR011/28/66800 / Miscellaneous pipe, metal, lumber, and concrete (unknown isotope 0.1mCi)	216	190' North & 55-65' East of SW monument
TAN-607-5H		Mercury (62-62) - Unk (PUL 240 kg) Lead (80-84) - Unk (no est.)	Unk (PUL 240 kg) Unk (no est)	TAN-607 Hot Shop/Manufacturing & Assembly - Myriad manufacturing, assembly, health physics and Hot Shop activities associated with TAN programs. (Mercury in canned mud in a 120 cubic foot container). (1967 - 1983) (7208.0 m3) This waste stream is listed in HDT. The shipping dates appear to be incorrect in HDT for overall shipping, see dates on contaminants.	254,548	
TAN-607-5H ?	P10	Lead		TAN607SR001/12/70810 / Metal source cask mounted on wooden platform (RWMIS content code: lead) (unknown isotope < 0.1 mCi)	2	380' West & 75' South of NE pit marker
TAN-607-5H ?	P4			TAN607SR002/21/67800 / Contaminated carbon steel tank from PM-2A vessel test - EDM Equipment (unknown isotope, 0.001 mCi)	15	180' West & 90' North of SE Monument
TAN-607-5H ?	P4			TAN607SR007/28/67800 / Mild steel Plate (unknown isotope, 0.1 uCi)	360	20-30' West & 5-15' North SE Monument

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
TAN-607-5H ?	P6			TAN607SR007/28/67810 / Metal (unknown isotope, 0.022 Ci)	432	265' West & 10' North of SE Monument
TAN-607-5H	P6			TAN607SR009/26/67800 / Waste, dust and grit from the sandblaster (unknown isotope, 0.001 Ci)	35	40 - 50' West & 0 -5' North of SE Monument
TAN-607-5H	P6			TAN607SR009/29/67800 / Wood planks wrapped in plastic (unknown isotope, 17 mCi)	30	120' West of SE Monument
TAN-607-5H	P6			TAN607SR010/09/67800 / 615 waste, bench test equipment - actuator parts (unknown isotope, 1 mCi)	128	60-80' North and 10-20' West of SE Monument
TAN-607-5H ?	P6			TAN607SR006/28/68800 / Pipe and wood wrapped in plastic (unknown isotope, 0.005 Ci)	1100	30' West & 20' North of the SE Monument
TAN-607-5H ?	P9			TAN607SR002/21/68800250 / Contaminated equipment left over from the GE Aircraft Nuclear Propulsion Program (unknown isotope, 5.5 mCi)	133	60-70' North & 10' West of SE Monument
TAN-607-5H ?	P9			TAN607SR003/13/6880010 / Sand from 607 (unknown isotope, 0.1 mCi)	160	170' North of SW Monument
TAN-607-5H ?	P9			TAN607SR003/14/6880000 / Sand in plastic inside dumpster (unknown isotope, <1 mCi)	160	175' North of SW Monument
TAN-607-5H ?	P9			TAN607SR003/14/6881000 / Sand from blaster (unknown isotope, <1 mCi)	160	175' North of SW Monument
TAN-607-5H ?	P9			TAN607SR008/20/68810252 / PM-2A Waste (set 1 package 5) (unknown isotope, 0.001 Ci)	1755	155-165' South & 15-25' West of NE Monument
TAN-607-5H ?	P9			TAN607SR008/20/68820202 / PM-2A Waste (set 1 package 9&10) (unknown isotope, 0.001 Ci)	2376	150-165' South & 5-15' West of NE Monument
TAN-607-5H ?	P9			TAN607SR008/22/68810201 / PM-2A Equipment set #1 package 3 (unknown isotope, 0.001 Ci)	2210	90-115' South & 15-25' West of NE Monument

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
TAN-607-5H ?	P9			TAN607SR008/22/68820101 / PM-2A Equipment set #1 package 6 (unknown isotope, 0.001 Ci)	1192	140-170' South & 70-80' West of NE Monument
TAN-607-5H ?	P9			TAN607SR008/23/6880080 / PM-2A Equipment 3 skids (set 1 pkg 5) (set 1 pkg 11) (set 1 pkg 4) (unknown isotope, 0.001 Ci)	1152	150-175' South & 60-75' West of NE Monument
TAN-607-5H ?	P9			TAN607SR008/23/6881081 / PM-2A Equipment 2 skids (set 1 pkg 10) (W105) (unknown isotope, 0.001 Ci)	1436	145-155' South & 25-45' West of NE Monument
TAN-607-5H ?	P9			TAN607SR008/26/6880020 / PM-2A Equipment 1 skid (set 1 pkg 10) (small box misc. items) (unknown isotope, 0.001 Ci)	1764	30-40' South & 5-40' West of NE Monument
TAN-607-5H ?	P10			TAN607SR002/12/69800 / Steel structures (unknown isotope, 5.5 mCi)	250	275' East & 20' South of NW Monument
TAN-607-5H ?	P10			TAN607SR004/29/69800/ Rad waste NOS (0.001 Ci) (RWMIS data, shipping document has no description.)	8	75' East & 80' North of SW -2 Monument
TAN-607-5H ?	P10			TAN607SR008/28/69800 / Miscellaneous scrap equipment from RPSSA (unknown isotope, 0.1 Ci)	360	325-335' East & 25' North of SW-2 Monument
TAN-607-5H ?	P10			TAN607SR009/02/69800 / Metal and wood scraps (unknown isotope, 0.5 Ci)	300	300' East & 45' North of SW-2 Monument
TAN-607-5H ?	P10			TAN607SR009/05/69800 / metal, wood (unknown isotope, 0.0025)	2000	300-?' SW Monument #2 60-100' S bank
TAN-607-5H ?	P10			TAN607SR010/29/69800 / Equipment steel, aluminum etc (unknown isotope, 1.55 Ci)	420	435' West & 40' North of SE Monument
TAN-607-5H ?	P10			TAN607SR010/31/69800 / Equipment - hold over GE items, snap 2 - 10AV (unknown isotope, 5 uCi)	1260	450-475 West & 15-40' South of NE Monument
TAN-607-5H ?	P10			TAN607SR011/04/69800 / Excess equipment - metal (unknown isotope, 3 mCi)	1000	410-420' West & 25-40' North Of SE

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
TAN-607-5H ?	P10			TAN607SR011/06/69800 / Excess metal equipment (unknown isotope .67 Ci)	1255	375-400' West & 15' South of NE pit marker
TAN-607-5H ?	P10			TAN607SR011/06/69810 / Excess equipment - metal, polyethylene (unknown isotope, 0.002 Ci)	240	475' West & 30' South of NE Monument
TAN-607-5H ?	P10			TAN607SR011/07/69800 / Metal equipment (unknown isotope .022 Ci)	500	390-400'W & 15'N of SE monument
TAN-607-5H ?	P10			TAN607SR012/02/69800 / Concrete blocks	250	400' West & 80' South of SE Monument
TAN-607-5H ?	P10			TAN607SR012/02/69810 / Concrete blocks - wood pallets (unknown isotope, <0.1 mCi)	250	400' West & 90' South of NE Monument
TAN-607-5H ?	P10			TAN607SR012/03/69800 / Concrete blocks - wood pallets (unknown isotope, <1 mCi)	250	400' West & 60' South of NE Monument
TAN-607-5H ?	P10			TAN607SR012/11/69800 / Broken pallets (MFP, <0.001 Ci)	250	425' West & 10' South of NE Monument
TAN-607-5H ?	P10			TAN607SR012/15/69810 / Wood pallets & scrap lumber (unknown isotope, 2.2 mCi)	250	350' West & 10-20' North of SE Monument
TAN-607-5H ?	P10			TAN607SR012/16/69800 / Wood pallets & scrap metal, scrap lumber & misc. items (unknown isotope, <0.001)	200	350' West & 10-20' North of SE Monument
TAN-607-5H ?	P10			TAN607SR001/12/70820 / Metal cabinet with instrumentation (unknown isotope < 0.1 mCi)	17	380' West & 75' South of NE pit marker
TAN-607-5H ?	P10			TAN607SR001/13/70800 / Electric Motor and pump (unknown isotope, <0.1 mCi)	5	380' West & 70' South of NE Monument
TAN-607-5H ?	P10			TAN607SR001/14/70800 / Water pump and chromalox heater (unknown isotope, <0.1 mCi)	8	380' West & 70' South of NE Monument
TAN-607-5H ?	P10			TAN607SR001/14/70810 / Aluminum tubing, electrical panels, temperature controller and valves (unknown isotope < 0.1 mCi)	7	380 - 390' West & 70' South of NE pit marker

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
TAN-607-5H ?	P10			TAN607SR002/16/7081010 / Stainless steel strips .004 to .006 thick, 50" longs, 3" wide (MFP, <0.001 Ci)	42	325' ?
TAN-607-5H ?	P10			TAN607SR002/24/70800 / Centrifugal fan and electrical motor S/N MM5956 (unknown isotope, 0.001 Ci)	74	350-370' West & 10-20' South of NE Monument
TAN-607-5H ?	P10			TAN607SR002/26/70800 / Aluminum, nichrome, stainless steel, molly and plastics in various shapes and sizes (unknown isotope, 0.002 Ci)	120	350-370' West & 10-20' South of NE Monument
TAN-607-5H ?	P10			TAN607SR003/20/70800 / Plastic wrapped ? Cutting machines (unknown isotope, 0.001 Ci)	120	365' West & 30' South of NE Monument
TAN-607-5H ?	P10			TAN607SR004/15/70800 / Metal (MFP, 10 mCi)	3145	330-340 West 50 S
TAN-607-5H ?	P10			TAN607SR005/18/70800 / Metal structure heavy (unknown isotope, 0.001 Ci)	336	300-325' West & 50' South of NE Monument
TAN-607-5H ?	P10			TAN607SR005/19/70800 / Scrap steel (unknown isotope .001 Ci)	250	310 - 330' West & 30' South of NE pit marker
TAN-607-5H ?	P10			TAN607SR005/19/70810 / Scrap steel (unknown isotope .001 Ci)	250	310 - 330' West & 30' South of NE pit marker
TAN-607-5H ?	P10			TAN607SR005/20/70800 / Scrap (unknown isotope < 0.001 Ci)	100	310 - 330' West & 30' South of NE pit marker
TAN-607-5H ?	P10			TAN601SR005/20/70810 / Scrap iron (Mixed fission products, 1 Ci)	200	310 - 330' West & 30' South of NE pit marker
TAN-607-5H ?	P10			TAN607SR008/05/70800 / Asphalt, dirt and gravel (MFP, 0.001 Ci)	324	325' West of NE Monument
TAN-607-5H ?	P10			TAN607SR008/06/70800200 / Asphalt, dirt and gravel (unknown isotope, 0.001 Ci)	324	Unknown
TAN-607-5H ?	P10			TAN607SR008/06/70810 / Contaminated blacktop from area west of warm shop TAN-607 (unknown isotope .001 Ci)	300	Unknown

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
TAN-607-5H ?	P10			TAN607SR008/24/70800 / Hardware (unknown isotope, 0.001 Ci) (The shipping papers say this is radioactive boxes, rack, etc.)	300	315-330' West & 5' South of NE
TAN-607-5H ?	P10			TAN607SR009/25/7080000 / Sand form sand blaster TAN 607 (unknown isotope, 0.001 Ci)	100	Unknown
TAN-607-5H ?	P10			TAN607SR010/02/7080000 / Dumpster full (unknown isotope, 0.001 Ci) (Shipping paper shows 'radioactive waste')	1770	Unknown
TAN-607-5H ?	P10			TAN607SR011/18/70800 / Wooden ? (U235, 1 Ci) (Cannot read composition on shipping papers, RWMIS has wooden hoods?)	252	315-320' West & 30-40' South of NE Monument
TAN-607-5H ?	P10			TANSR002/17/7198 / Vessel closure head - NRF, transfer tool - NRF (mixed fission products .001 CI)	200	255-270' West & 90-100' South of NE monument
TAN-607-5H ?	P10			TAN607SR005/07/71800 / Contaminated stainless steel (MFP, 1.00E-03 Ci)	130	275' West & 75' South of NE Monument
TAN-607-6H				TAN-607 Hot Shop/Manufacturing & Assembly - Minor unidentified radioactive waste from the TSF area. Packaged in wooden boxes. (1983 - 1983) (70.7 m3) This waste stream is listed in HDT.	2496.7	
TAN-633-1H		Nickel - 1095 gm Chromium - 275 gm	1095 gm* 275 gm*	TAN-633 Hot Cell Annex - Radiation Measurement Lab (RML)/Hot Cell Sample/Specimens of fuel assemblies from HTRE No. 1 IET #3, #4, and #6 tests. Pieces of slag formed by high temperature melting of VO2 and nichrome clad combing. (1956 - 1956) (? m3) This waste stream is listed in the HDT.		
TAN-633-2H		Beryllium - Unk (no est.)	Unk (no est)	TAN-633 Hot Cell Annex - Metallurgical samples/specimens from HTRE-2 insert tests. (1957 - 1961) (? m3) This waste stream is listed in the HDT.		
TAN-633-3H				TAN-633 Hot Cell Annex - Metallurgical samples/specimens examined and discarded from RML/Hot Cells resulting from SL-1 accident of Jan. 3, 1961. (1963 - 1963) (85.0 m3) This waste stream is listed in HDT.	3001.7	

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
TAN-633-3H ?	P4			TAN633SR002/28/63810 / mixed fission products from SL1 (150 Ci)	2486	100' West of the NE Corner
TAN-633-4H		Nickel (66-66) - Unk (no est.) Chromium (66-66) - Unk (est. - small) Sodium Potassium (66-66) - 360 gm Trimethyl-propane-Triester (66-66) - 440 gm	Unk (no est) Unk (est - small) 360 gm* 440 gm*	TAN-633 Hot Cell Annex - Metallurgical sample/specimens from examination of the ML-1, PM-2A, and the 2 SNAPTRAN systems. Also included filters. (1964 - 1966) (162.0 m3) This waste stream is listed in the HDT.	5721	
TAN-633-4H ?	P4	??		TAN633SR005/02/661 / ML-1 reactor skid and shielding (unknown isotope, 20 Ci) (This waste may contain hazardous constituents.)	800	310' West of SE Monument
TAN-633-4H ?	P5			TAN633SR006/13/66135 / ML-1 fixtures (unknown isotope, 165 mCi)	140	125' N/E of S/W Monument
TAN-633-5H				TAN-633 Hot Cell Annex - Hot cells abutting TAN 607 with remote handling equipment for examining radioactive contaminated material. (1963 - 1970) (521.0 m3) This waste stream is listed in HDT.	18,399	
TAN-633-5H ?	P4			TAN633SR004/08/662 / General hot cell trash, two floor buffers, GM manipulator, dynamometer, impacutter. (unknown isotope 0.2 Ci)	13	310' West of SE Monument
TAN-633-5H ?	P5			TAN633SR011/18/6423000 / Hot cell trash (unknown isotope, 3.2 Ci)	310	125' North of S/W Marker
TAN-633-5H ?	P5			TAN633SR012/04/6412500 / Hot cell trash (unknown isotope, 1.13 Ci) (Shipping paper says 1 4x48 plywood box, RML waste')	108	125' North of S/W Corner
TAN-633-5H ?	P5			TAN633SR006/22/66110 / General hot cell trash (wood, pipe, plastic, etc.) General Mills manipulator AEC/GE 64986 (unknown isotope, 0.016 mCi)	196	130' North of the S/W Monument
TAN-633-5H ?	P6			TAN633SR006/14/67800 / Shield plug and upper structure (unknown isotope, 0.005 Ci)	360	Unknown
TAN-633-5H ?	P6			TAN633SR010/17/67800 / One Bridgeport milling machine, hot cell filters, hot cell false flooring (aluminum and wood) (unknown isotope, 4 Ci)	2486	15-25' North & 250-260' West of SE Monument
TAN-633-5H ?	P10			TAN633 SR0 10/09/68 800 20 3 / Large carbon steel cylinder-NRF transportation shield (unknown isotope, <1 Ci)	525	10' West & 10' North of SW -2 Monument

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
TAN-633-5H ?	P10			TAN633SR011/12/69800 / Wood (unknown isotope, 0.41 Ci)	350	465-475' West & 10' South of NE Monument
TAN-633-5H ?	P10			TAN633SR012/08/69820 / Wood and steel (MFP, 0.002)	200	420-425' West & 15' South of NE Monument
TAN-633-5H ?	P10			TAN633SR012/09/69800 / Scrap steel and wood (unknown isotope, 0.002 Ci)	200	420-425' West & 5-10' South of NE Monument
TAN-633-5H ?	P10			TAN633SR002/11/7080018040 / General hot trash - paper, wood & metal (unknown isotope, <1.0 Ci)	130	325' ?
TAN-633-5H ?	P10			TAN633SR006/17/70800 / Metal (unknown isotope, 0.0001 Ci) (WOS). (unknown isotope, <0.01 Ci).	7.5	330' West & 60' South of NE Monument
TAN-640-1H		Beryllium - Unk(PUL <E+02 kg)	Unk(PUL <E+02 kg)	Rags, Plastic, and one radium-beryllium source from the Water Reactor Research Test Facility (WRRTF) Test Building. This waste stream is listed in the HDT.		
TAN-UNK-1H				Unknown. Includes 6 pieces of ETR Shim stock, 3 Pu-coated discs, misc. Pu waste and 5 cc of undefined liquid. (1966 - 1970) (17.6 m3) This waste stream is listed in the HDT.	621.5	
TRA-602-1H				TRA-602 Deepwell Pump House #2 - No waste stream in the HDT could be identified with shipments with source TRA-602.		
TRA-602-1H ?	P4			TRA602SR011/22/63810 / Steel Welding table and Stainless Steel welding hood (Pu, 1 mCi)	200	100' East on NW #4 Pit marker
TRA-603-1H				TRA-603 Material Test Reactor Building - Resins. Packaged in cardboard boxes. (Also 670 & 642) (1952 - 1982) (586.0 m3) This waste stream is listed in the HDT.	20,694.4	
TRA-603-3H				TRA-603 Material Test Reactor Building - Irradiated end boxes. Packaged in metal drums. (Also 642) (1961 - 1965) (20.9627 m3) This waste stream is listed in the HDT.	740.3	

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
TRA-603-4H				TRA-603 Material Test Reactor Building - Core & loop components. Loop piping, ss and Al pieces, eqpt. leads, end pile tubes, or end boxes from fuel elements. (Also 642) (1961 - 1970) (609.4706 ft3) This waste stream is listed in the HDT.	609.5	
TRA-603-4H	P3			TRA603SR009/28/618008010 / Polyethylene wrapped containers containing BWC-301 Loop package wrapped in polyethylene- 2 pieces (Unknown isotope; 2 total curies)	490	0+90' N & 0+05' E
TRA-603-4H ?	P3			TRA603SR010/18/6180040 / One dump truck load of miscellaneous obsolete experimental apparatus and equipment (Unknown isotope; 0.003 total curies)	162	1+65' S & 0+70' W
TRA-603-4H ?	P3			TRA603SR010/18/6181040 / One dump truck load of miscellaneous obsolete experimental apparatus and equipment. Possible contamination. (Unknown isotope; 0.003 total curies)	162	1+50' S & 0+50' W
TRA-603-4H ?	P3			TRA603SR010/18/6182040 / One dump truck load of miscellaneous obsolete experimental apparatus and equipment. Possible contamination. (Unknown isotope; 0.003 total curies)	189	1+50' S & 0+70' W
TRA-603-4H ?	P3			TRA603SR010/18/6183040 / One dump truck load of miscellaneous obsolete experimental apparatus and equipment (Unknown isotope; 0.003 total curies)	162	1+65' S & 0+25' W
TRA-603-4H ?	P3			TRA603SR010/31/6181010 / One dump truck full of miscellaneous pipe, wood, experimental equipment. No apparent contamination. (Unknown isotope; <0.00001 total curies)	162	0+60' S & 0+30' W
TRA-603-4H ?	P4			TRA642SR004/28/641 / Stainless steel heat exchanger, valve and piping (unknown isotope < 0.1 Ci)	5	490' from East end, South side
TRA-603-4H ?	P4			TRA603SR001/20/67800 / Blocks, pipe, wood, and misc. hot waste (unknown isotope, 11 mCi)	144	230' West & 45' North of SE Monument
TRA-603-4H ?	P4			TRA603SR001/20/67810 / Metal sample box and pipe (unknown isotope .35 mCi)	16	230' West & 40' North of SE Monument
TRA-603-4H ?	P5			TRA603SR004/28/66105 / Pa-231 oxide in contaminated glove box (MFP, < 1 Ci)	36	95' East & 122' North of the S/W Monument

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
TRA-603-4H ?	P5			TRA603SR004/28/66250 / Pm-147 oxide in contaminated glove box (500Ci)	65	90' East & 120' North of S/W Monument
TRA-603-4H ?	P5			TRA603SR006/20/66315 / Misc waste - wooden boxes- "unreadable" - scrap metal etc. (MFP, .3 Ci)	400	90' North & 20' East of S/W Monument
TRA-603-4H ?	P5			TRA603SR006/21/6611 / Misc. waste, scrap wood, iron (mixed fission products 0.3 Ci)	300	150' N/W of S/W Monument
TRA-603-4H ?	P5			TRA603SR005/16/6880020 / iron nails (unknown isotope, 10 mCi)	32	130' North & 25' East of SW Monument
TRA-603-4H ?	P6			TRA603SR004/01/68820 / Contaminated WAPD equipment and materials (MFP, 7.5 mCi)	600	10-25' West & 0-15' North of the SE Monument
TRA-603-4H ?	P9			TRA603SR003/21/6882051 / Contaminated WAPD equipment and materials (MFP, 0.02 mCi)	250	170-175' North & 5-15' East of SW Monument
TRA-603-4H ?	P9			TRA603SR003/22/6880015015 / Contaminated metal, lines, etc. (unknown isotope, 429 mCi)	60	95' South of NW Monument
TRA-603-4H ?	P9			TRA603SR003/22/6881062 / Contaminated metal, lines, etc (unknown isotope, 27.5 mCi)	60	90' south of NW monument
TRA-603-4H ?	P9			TRA603SR004/01/6881000 / contaminated WAPD equipment and materials (unknown isotope, < .1 mCi)	250	75-85' South & 5-15' East of NW Monument
TRA-603-4H ?	P10			TRA603SR006/18/69820 / Canal trash, B-4 inpile tube wrapped in plastic (unknown isotope, 4 mCi)	3.5	430' East & 30' South of NW Monument
TRA-603-4H ?	P10			TRA603SR007/30/69800 / KAPL HB-1 D/P cabinet containing KAPL items 67577 through 67590 (unknown isotope, 0.2 Ci)	135	200-210' East & 30-40' North of SW-2 Monument
TRA-603-4H ?	P10			TRA603SR008/01/69800 / KAPL HB-1 D/P cabinet containing KAPL item 43879 (unknown isotope, 0.2 Ci)	189	200-210' East & 30-40' North of SW-2 Monument
TRA-603-4H ?	P10			TRA603SR008/04/69800 / Miscellaneous piping and shielding (unknown isotope < 0.1mCi)	94.5	200' East & 35' North of SW-2 Monument

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
TRA-603-4H ?	P10			TRA603SR008/05/69800 / Miscellaneous piping and shielding material from KAPLHB-1 loop (unknown isotope <.1 mCi)	94.5	200' East & 30-40' North of SW-2 Monument
TRA-603-4H ?	P10			TRA603SR008/05/69810 / Miscellaneous piping and shielding material from KAPLHB-1 loop (unknown isotope <.1 mCi)	94.5	200' East & 35' North of SW-2 Monument
TRA-603-4H ?	P10			TRA603SR008/05/69820 / Miscellaneous piping and shielding material from KAPLHB-1 loop (unknown isotope <.1 mCi)	94.5	200' East & 30' North of SW-2 Monument
TRA-603-4H ?	P10			TRA603SR008/06/69800 / Miscellaneous piping and shielding material from KAPL HB-1 Loop (unknown isotope, <0.1 mCi)	94.5	205' East & 40' North of SW-2 Monument
TRA-603-4H ?	P10			TRA603SR008/06/69810 / Miscellaneous piping and shielding material from KAPL HB-1 Loop (unknown isotope, <0.1 mCi)	94.5	210' East & 40' North of SW-2 Monument
TRA-603-4H ?	P10			TRA603SR008/06/69820 / Miscellaneous piping and shielding material from KAPL HB-1 Loop (unknown isotope, <0.1 mCi)	94.5	205' East & 35' North of SW-2 Monument
TRA-603-4H ?	P10			TRA603SR008/07/69820 / Miscellaneous piping and shielding material from KAPL HB-1 Loop (unknown isotope, <0.1 mCi)	94.5	255' East & 50' North of SW-2 Monument
TRA-603-4H ?	P10			TRA603SR008/07/69830 / Miscellaneous piping and shielding material from KAPL HB-1 Loop (unknown isotope, <0.30 mCi)	94	250' East & 45' North of SW-2 Monument
TRA-603-4H ?	P10			TRA603SR008/07/69840 / Miscellaneous piping and shielding material from KAPL HB-1 Loop (unknown isotope, <0.1 mCi)	94.5	250' East & 20' North of SW-2 Monument
TRA-603-4H ?	P10			TRA603SR008/07/69850 / Miscellaneous piping and shielding material from KAPL HB-1 Loop (unknown isotope, <0.1 mCi)	94.5	250' East & 40' South of SW-2 Monument
TRA-603-4H ?	P10			TRA603SR008/08/69800 / Miscellaneous piping and shielding material from KAPL HB-1 Loop (unknown isotope, <0.1 mCi)	94.5	250' East & 45' North of SW-2 Monument
TRA-603-4H ?	P10			TRA603SR008/08/69810 / Miscellaneous piping and shielding material from KAPL HB-1 Loop (unknown isotope, <0.1 mCi)	94.5	250' East & 45' North of SW-2 Monument

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
TRA-603-4H ?	P10			TRA603SR008/12/69800 / Miscellaneous piping and shielding material from KAPL HB-1 Loop (unknown isotope, 0.3 Ci)	94.5	300' South of Monument #2 & 5' South
TRA-603-4H ?	P10			TRA603SR008/12/69810 / Miscellaneous piping and shielding material from KAPL HB-1 Loop (unknown isotope, 1.4 Ci)	94.5	300' South of Monument #2 & 10' S ?
TRA-603-4H ?	P10			TRA603SR008/12/69820 / Miscellaneous piping and shielding material from KAPL HB-1 Loop (unknown isotope, .3 Ci)	94.5	300-320' SE Monument #2 5' S ?
TRA-603-4H ?	P10			TRA603SR008/12/69830 / Miscellaneous piping and shielding material from KAPL L-42 Loop (unknown isotope, <0.2 Ci)	94.5	300-320' SW Monument #2 ?
TRA-603-4H ?	P10			TRA603SR008/12/69840 / Miscellaneous piping and shielding material from KAPL HB-1 Loop (unknown isotope, <0.1 mCi)	94.5	300' SW Monument #2 ?
TRA-603-4H ?	P10			TRA603SR008/13/69800 / Miscellaneous piping and shielding from KAPL HB-1 Loop (unknown isotope, 0.4 Ci)	94.5	300-320' from SE Monument #2 10-15' S ?
TRA-603-4H ?	P10			TRA603SR008/13/69810 / Miscellaneous piping and shielding material from KAPL HB-1 Loop (unknown isotope, 0.3 Ci)	94.5	300-320' SE Monument #2 10-20' S ?
TRA-603-4H ?	P10			TRA603SR008/13/69820 / Miscellaneous piping and shielding material from KAPL HB-1 Loop (unknown isotope, .8 Ci)	94.5	300-320' SE Monument #2 10-20' S ?
TRA-603-4H ?	P10			TRA603SR008/14/69810 / Miscellaneous piping and shielding material from KAPL HB-1 Loop (unknown isotope, 0.6 Ci)	94.5	300-330' SE Monument #2 & 40-60' S ?
TRA-603-4H ?	P10			TRA603SR008/14/69820 / Miscellaneous piping and shielding from KAPL HB-1 Loop (unknown isotope, < 0.1mCi)	94.5	300-320' SE Monument #2 5-10' S
TRA-603-4H ?	P10			TRA603SR008/14/69830 / Miscellaneous piping and shielding material from KAPL HB-1 Loop (unknown isotope, <0.1 mCi)	94.5	300-320' SE Monument #2 & 5-10' S Side
TRA-603-4H ?	P10			TRA603SR008/15/69800 / Miscellaneous piping and shielding material from KAPL HB-1 Loop (unknown isotope, <0.1 mCi)	94.5	300-320' SE Monument #2 & unreadable S ?

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
TRA-603-4H ?	P10			TRA603SR008/15/69810 / Miscellaneous piping and shielding material from KAPL HB-1 Loop (unknown isotope, <0.1 mCi)	94.5	300-320' SE Monument #2 50-60' S Bank
TRA-603-4H ?	P10			TRA603SR008/15/69820 / Miscellaneous piping and shielding from KAPL HB-1 Loop (unknown isotope, 5.5 Ci)	94.5	300-320' SE Monument & 50-60' S Bank
TRA-603-4H ?	P10			TRA603SR008/15/69830 / Miscellaneous piping and shielding from KAPL HB-1 Loop (unknown isotope, 0.7 Ci)	94.5	300-320' SE Monument & 40-60' S Bank
TRA-603-4H ?	P10			TRA603SR008/27/69830 / Miscellaneous piping and shielding material from KAPL HB-1 Loop (unknown isotope, <0.1 mCi)	94.5	240' East pf S/W-2 Monument
TRA-603-4H ?	P10			TRA603SR008/29/69800 / Miscellaneous piping and shielding material from KAPL HB-1 Loop (unknown isotope, <0.1 mCi)	94.5	335' East & 20' North of SW-2 Monument
TRA-603-4H ?	P10			TRA603SR009/09/69800 / Miscellaneous piping and shielding material from KAPL L-42 Loop (unknown isotope, 3306 mCi)	94.5	355' East & 50' North of SW-2 Monument
TRA-603-4H ?	P10			TRA603SR009/09/69840 / Miscellaneous piping and shielding material from KAPL HB-1 Loop (unknown isotope, 96.25 mCi)	189	550' East ? Of NW Monument
TRA-603-4H ?	P10			TRA603SR009/19/69800 / Miscellaneous piping and shielding material from KAPL L-42 Loop (unknown isotope, < 25 mCi)	94.5	355' East & 50' North of SW-2 Monument
TRA-603-4H ?	P10			TRA603SR009/25/69810 / Miscellaneous piping and shielding from WAPD B-4 (unknown isotope, 0.314 Ci)	95	325' East & 40' North of SW-2 Monument
TRA-603-4H ?	P10			TRA603SR009/29/69900 / Miscellaneous piping and shielding material from WAPD B-4 (unknown isotope, 30 mCi)	95	340' East & 40' North of SW-2 Monument
TRA-603-4H ?	P10			TRA603SR009/29/69910 / Miscellaneous piping and shielding material from WAPD B-4 (unknown isotope, 5 mCi)	95	575-600' East & 30' South of NW Monument
TRA-603-4H ?	P10			TRA603SR009/30/69830 / Miscellaneous piping and shielding material from WAPD B-4 (unknown isotope, 16.5 mCi)	95	590' East & 45' South of NW Monument
TRA-603-4H ?	P10			TRA603SR010/13/69800 / Miscellaneous piping and shielding material from WAPD B-4 (unknown isotope 0.341 Ci)	95	625' East of NW Monument

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
TRA-603-4H ?	P10			TRA603SR010/13/69810 / Miscellaneous piping and shielding material from WAPD B-4 (unknown isotope, 0.2 Ci)	95	625' East of NW Monument
TRA-603-4H ?	P10			TRA603SR010/13/69820 / Miscellaneous piping and shielding material from WAPD B-4 (unknown isotope, 82.5 mCi)	95	620' East & 5' South of NW Monument
TRA-603-4H ?	P10			TRA603SR010/22/69830 / Miscellaneous piping and shielding material from WAPD B-4 (unknown isotope, 42mCi)	95	425' West & 70' South of NE Monument
TRA-603-4H ?	P10			TRA603SR010/22/69840 / Miscellaneous piping and shielding material from WAPD B-4 (unknown isotope, 0.55Ci)	295	430' West & 75-80' North of SW Monument
TRA-603-4H ?	P10			TRA603SR010/27/69820 / Miscellaneous piping and shielding material from WAPD B-4 (unknown isotope, 5 Ci)	95	425-440' West of SE Monument ?
TRA-603-4H ?	P10			TRA603SR011/11/69800 / Miscellaneous piping and shielding material from WAPD B-4 (unknown isotope, 0.24 Ci)	95	475' West & 15' South of NE Monument
TRA-603-4H ?	P10			TRA603SR011/28/69800 / Miscellaneous piping and shielding material from WAPD B-4 (unknown isotope, 1.1 Ci)	720	400' West & 15' South of NE Monument
TRA-603-5H				TRA-603 Material Test Reactor Building - Uranium in metal. Packaged in cardboard & wooden boxes. (Also 614, 661, 666, 604, 626, & 654) (1971 - 1980) (7.439 m3) This waste stream is listed in the HDT.	262.7	
TRA-603-5H ?	P12			TRASR003/26/71270 / Enriched uranium and thorium encased in stainless steel. (U-235, < 0.00003 Ci)	12	145' East & 40 South of NW Monument
TRA-603-6H				TRA-603 Material Test Reactor Building - Sludge. (Also 624, 642, & 670) (1961 - 1981) (78.4726 m3) This waste stream is listed in HDT.	2771.2	
TRA-603-6H ?	P10			TRA732SR007/23/70810351 / Sewer sludge from TRA sludge pit (unknown isotope, 0.02 Ci)	170	Unknown
TRA-603-6H ?	P10			TRA732SR007/24/70800200 / Sewer sludge (unknown isotope, 0.01 Ci)	200	Unknown

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
TRA-603-7H				TRA-603 Material Test Reactor Building - Glass. Bottles & pieces. (1960 - 1968) (3.34 m3) This waste stream is listed in the HDT.	118	
TRA-603-8H				TRA-603 Material Test Reactor Building - Radioactive sources. (1961 - 1972) (1.897 m3) This waste stream is listed in the HDT.	67	
TRA-603-9H				TRA-603 Material Test Reactor Building - Irradiated fuel. (Also 632, 642, & 670) (1960 - 1977) (88207.0 ft3) This waste stream is listed in the HDT.	88,297	
TRA-603-10H		Asbestos - 1100 kg	1100 kg	TRA-603 Material Test Reactor Building - Asbestos. (1960 - 1960) (1000 ft3) This waste stream is listed in HDT.	1000	
TRA-603-11H				TRA-603 Material Test Reactor Building - Meat contaminated with botulinus. (1961 - 1961) (0.0566 ft3) This waste stream is listed in the HDT.	0.0566	
TRA-603-12H				TRA-603 Material Test Reactor Building - Vermiculite. (Also 642) (1962 - 1973) (11.904 ft3) This waste stream is listed in HDT.	11.904	
TRA-603-13H				TRA-603 Material Test Reactor Building - Filters. (1960 - 1973) (6.809 ft3) This waste stream is listed in HDT.	6.809	
TRA-603-13H ?	P12			TRASR001/13/71104 / Discarded filters containing trapped uranium (U-238, U-235, < .001 Ci)	7.5	145-148' East & 60' South of NW Monument
TRA-603-14H				TRA-603 Material Test Reactor Building - Continuous air monitors (CAMs). (1977 - 1977) (4.531 ft3) This waste stream is listed in HDT.	4.531	
TRA-603-15H		Beryllium (60, 62, 63, 69, 70) - 1473.4 kg Cadmium (60, 62, 63, 69, 70) - 1473.4 kg	1473.4 kg* 1473.4 kg*	TRA-603 Material Test Reactor Building - Metal (aluminum, stainless steel, zircaloy, beryllium, and cadmium). (Also 614 & 632) (1960 - 1983) (1349.7906 ft3) This waste stream is listed in HDT.	1349.8	

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
TRA-603-15H ?	P10	Beryllium		TRA603SR005/11/70830 / Aluminum BF grid and upper support casting (RWMIS: content code beryllium) (unknown isotope, 2.5 Ci) <i>(description probably should be BE not BF)</i>	130	325' West & 70' South of NE Monument
TRA-603-15H	P3			TRA603SR009/21/6180010 / Carbon steel sample handling rig (Unknown isotope; 0.0001 total curies)	150	0+30' N to 0+69' N & 0+15' E
TRA-603-15H	P3			TRA603SR009/21/61810602 / 4 Boxes containing stainless steel pipe and accessories. Do not unwrap from plastic. (Unknown isotope; 0.0001 total curies)	97	0+30' N to 0+69' N & 0+15' E
TRA-603-15H ?	P3			TRA603SR010/24/6180050 / Unknown number of containers containing gross mixed fission products, paper, iron, wood, and other waste material (Unknown isotope; 0.03 total curies)	216	0+30' W & 1+50' S
TRA-603-15H	P3			TRA603SR011/01/6180020 / BWC-301 sample house, steel plate construction (Unknown isotope; <0.00001 total curies)	160	0+60' S & 0+20' W run 50' W
TRA-603-15H ?	P3			TRA603SR011/07/6180060 / Unknown number of cardboard boxes containing mixed fission and corrosion products due to normal reactor operations, paper, metal, rags, etc. (Unknown isotope; 0.030 total curies)	132	0+80' S & 0+30' W
TRA-603-15H	P3			TRA603SR011/10/6180060 / Unknown number of containers containing steel (old KAPL makeup system frame from MTR; approximately 50"x70"x90"). Contaminated to 500 c/m (covered with poly) (Unknown isotope; <0.1 total curies)	160	1+05' S & 0+30' W
TRA-603-15H ?	P3			TRA603SR012/26/6180050 / Unknown number of cardboard containers containing mixed fission and corrosion products due to reactor operations, rags, paper, metal, etc. (Unknown isotope; 0.0275 total curies)	180	1+05' S & 0+45' W
TRA-603-15H ?	P3			TRA603SR007/13/62810104 / Unknown number of containers containing metal comp. (Unknown isotope; 0.100 total curies)	793.1	10' W & 50' N of SE Pit #3 pit marker
TRA-603-15H	P3			TRA603SR008/30/658200000 / Aluminum (Unknown isotope; <0.0001 total curies)	0.017	Unknown
TRA-603-15H ?	P5			TRA603SR008/05/66110 / Metal pumps. (unknown isotope < 1 Ci)	40	40' West & 160' North of S/W Monument
TRA-603-15H ?	P5			TRA603SR011/10/66351 / Metal (unknown isotope, 0.001 Ci)	10	30' East & 180' North of S/W Monument

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
TRA-603-15H ?	P10			TRA653SR003/28/69800 / Wood and metal - 2 wooden boxes (unknown isotope, < 0.1 mCi)	128	70' East & 45' North of SW-2 Monument
TRA-603-16H				TRA-603 Material Test Reactor Building - Paper. (Also 632, 642, 653, 670, & 661). (1960 - 1977) (1056.2019 ft3) This waste stream is listed in HDT.	1056.2	
TRA-603-16H ?	P3			TRA642SR004/07/61800101 / Unknown number of cardboard containers containing paper, metal, scrap, etc., sweepings (Unknown isotope; 0.028 total curies)	204	0+80' S & 0+10' W
TRA-603-16H ?	P3			TRA642SR005/05/61800151 / Unknown number of cardboard box containers containing sweepings, pipe, paper, boards, etc. (Unknown isotope; 0.22 total curies)	225	1+00' S & 0+25' W
TRA-603-16H	P3			TRA603SR012/01/6180070 / Unknown number of cardboard boxes containing radioactive hot waste, sweepings, paper, rags, mops, etc. (Unknown isotope; 0.020 total curies)	216	1+25' S & 0+10' W
TRA-603-16H	P3			TRA603SR003/16/6281035020 / Unknown number of cardboard boxes containing routine hot waste, mops, paper, sweepings, lines, etc. (Unknown isotope; 0.77 total curies)	204	1+45' S & 0+10' W
TRA-603-16H ?	P3			TRA642SR004/04/62800202 / Unknown number of cardboard containers containing sweepings, piping, wood, paper, etc. (Unknown isotope; 0.072 total curies)	400	125' S of NE #3 trench marker
TRA-603-16H ?	P3			TRA642SR004/04/62810405 / Unknown number of cardboard box containers containing sweepings, pipe, blotting paper, rags, etc. (MFP - 6.325E-02; MAP - 6.325E-02; 0.1265 total curies)	216	125' S & 20' W of NE #3 trench marker
TRA-603-16H	P3			TRA603SR004/11/6280035 / Unknown number of cardboard boxes containing mixed fission and corrosion products due to normal reactor operations, paper, metal, rags, etc. (Unknown isotope; 0.0192 total curies)	204	110' S & 25' W of NE #3 trench marker
TRA-603-16H	P3			TRA603SR004/11/6282050 / Unknown number of paper boxes containing asphalted paper, straw, rags, etc. (Unknown isotope; 0.0000002 total curies)	400	110' S & 140' W of NE #3 trench marker
TRA-603-16H ?	P9			TRA603SR005/26/69800 / Wood, paper, rags (mixed fission products 0.193 Ci)	156	60-70' East of NW Monument

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
TRA-603-17H				TRA-603 Material Test Reactor Building - Dirt. (Also 632, 642, 647, 670, 662, & 657). (1960 - 1973) (152.7256 ft3) This waste stream is listed in HDT.	152.7	
TRA-603-17H?	P5	Acid		TRA603SR011/11/66210 / Acid contaminated soil from TRA (unknown isotope, 1 uCi)	48	195' North & 10' West of S/W Monument
TRA-603-18H				TRA-603 Material Test Reactor Building - Rags, floor sweepings and glassware. (Also 632, 642, 653, 661, & 670). (1960 - 1970) (1846.6219 ft3) This waste stream is listed in the HDT.	1846.6	
TRA-603-18H ?	P2			TRA603SR008/24/62800253 / Routine hot waste, sweepings, ??? (unknown isotope, 94 mCi)	156	460' West and 55' South of NE #2 pit marker
TRA-603-18H ?	P2			TRA603SR008/24/628107510 / Routine hot waste, sweepings, line paper, mops, etc. (unknown isotope, 205 mCi)	216	465' West and 50' South of NE#2 pit marker
TRA-603-18H ?	P3			TRA603SR001/24/618202510 / Unknown number of cardboard box containers containing mixed fission and corrosion products due to reactor operations (Unknown isotope; 0.055 total curies)	240	30' S & 40' W of NE Marker
TRA-603-18H ?	P3			TRA603SR003/14/61800192 / Unknown number of sealed box containers containing mixed fission products (Unknown isotope; 0.01 total curies)	192	0+45' S & 0+05' W
TRA-603-18H ?	P3			TRA603SR003/14/6181080 / Unknown number of sealed box containers containing mixed fission products (Unknown isotope; 0.004 total curies)	180	0+40' S & 0+05' W
TRA-603-18H ?	P3			TRA603SR004/04/61800101 / Unknown number of containers containing mixed fission and corrosion products due to normal reactor operations (Unknown isotope; 0.0000348 total curies)	120	1+10' S & 0+40' W
TRA-603-18H ?	P3			TRA603SR004/11/61800101 / Unknown number of cardboard boxes containing mixed fission and corrosion products due to normal reactor operations (Unknown isotope; 0.055 total curies)	168	0+90' South & 0+25' West
TRA-603-18H ?	P3			TRA603SR004/18/61800180 / Unknown number of cardboard boxes containing mixed solid fission and corrosion products due to normal reactor operations (Unknown isotope; 0.099 total curies)	180	1+00' S & 0+20' W

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
TRA-603-18H ?	P3			TRA603SR007/25/6181080 / Unknown number of boxes containing mixed fission. (Unknown isotope; 0.08 total curies)	204	0+80' S & 0+35' W
TRA-603-18H ?	P3			TRA603SR008/29/61820105 / Unknown number of cardboard boxes containing MFP and corrosion products due to normal reactor operations (Unknown isotope; 0.055 total curies)	166	1+20' S & 0+35' W
TRA-603-18H ?	P3			TRA603SR009/20/6183041 / Unknown number of wooden boxes and poly bags containing hot trash (Unknown isotope; <0.01 total curies)	30	0+30' N to 0+65' N & 0+15' E
TRA-603-18H ?	P3			TRA603SR010/02/6181050 / Rad waste NOS (Unknown isotope; 0.0275 total curies) (Data taken from RWMIS)	192	1+40' S & 0+50' W
TRA-603-18H ?	P3			TRA603SR010/31/61800104 / Unknown number of containers containing mixed fission products due to reactor operations (Unknown isotope; 0.055 total curies)	144	1+60' S & 0+75' W
TRA-603-18H ?	P3			TRA603SR011/14/6181060 / Unknown number of boxes containing mixed fission products (Unknown isotope; 0.03 total curies)	180	0+85' S & 0+35' W
TRA-603-18H ?	P3			TRA603SR012/12/6180050 / Unknown number of boxes containing mixed fission products (Unknown isotope; 0.0275 total curies)	144	1+20' S & 0+10' W
TRA-603-18H	P3			TRA603SR002/02/6281040 / Unknown number of cardboard containers containing routine hot waste, mops, towels, blotting paper, sweepings, etc. (Unknown isotope; 0.022 total curies)	216	1+25' S & 0+60' W
TRA-603-18H ?	P3			TRA603SR002/27/6280010 / Three contaminated glove boxes located in the MTR decontamination room. Alpha contamination on inside. Smear indicate up to 400 c/min. alpha. (Unknown weight for Pu, U-235; Unknown curie amount)	25	80' S & 10' E of NW #3 Pit marker
TRA-603-18H	P3			TRA603SR003/16/6280023 / Unknown number of cardboard boxes containing routine hot waste, paper, sweepings, lines, etc. (Unknown isotope; 0.077 total curies)	216	1+45' S & 0+05' W
TRA-603-18H	P3			TRA603SR003/30/628003510 / Unknown number of cardboard boxes containing routine hot waste, mops, paper, sweepings, lines, etc. (Unknown isotope; ~0.135 total curies)	216	125' S of NE #3 trench marker

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
TRA-603-18H	P3			TRA603SR003/30/6281020050 / Unknown number of cardboard boxes containing routine hot waste, mops, paper, sweepings, lines, etc. (Unknown isotope; 0.825 total curies)	216	125' S of NE #3 trench marker
TRA-603-18H	P3			TRA603SR004/05/6280015020 / Unknown number of cardboard boxes containing routine hot waste, mops, paper, sweepings, lines, etc. Direct radiation. (Unknown isotope; 145 total curies)	216	125' S & 10' W of NE #3 trench marker
TRA-603-18H	P3			TRA603SR004/11/62810100 / Unknown number of cardboard boxes containing mixed fission and corrosion products due to normal reactor operations, paper, metal, rags, etc. (Unknown isotope; 0.0055 total curies)	204	110' S & 30' W of NE #3 trench marker
TRA-603-18H ?	P4			TRA603SR006/24/661 / Misc scrap from HP storage area, some parts contaminated 120 c/m (unknownCi)	450	250' West of the SE Monument
TRA-603-18H ?	P4			TRA603SR006/24/662 / Wood, pipe, scrap (unknown isotope, 0.01 Ci)	216	255' West of the SE Monument
TRA-603-18H ?	P5			TRA603SR006/22/66115 / Misc. waste - scrap metal, etc. (MFP, 0.3 Ci)	300	150' North of S/W Monument
TRA-603-18H ?	P5			TRA603SR006/23/66221 / Misc waste, scrap metal, wood, etc (MFP, 0.01 Ci)	300	150' North of S/W Monument
TRA-603-18H ?	P5			TRA603SR006/23/66341 / Misc waste, scrap metal, wood, etc. (mixed fission products 0.01 Ci)	250	100' North & 30' East of S/W Monument
TRA-603-18H ?	P9			TRA603SR006/05/6981012532 / Routine hot waste: paper, unreadable, sweepings, etc (MFP,0.363 Ci)	216	60' West of NE Monument
TRA-603-18H ?	P9			TRA603SR005/29/69800102 / Routine hot waste, sweepings, unreadable, paper, etc. (unknown isotope, 27.5 mCi)	216	East 60' north unreadable
TRA-603-19H				TRA-603 Material Test Reactor Building - Concrete, asphalt, brick, metals, and wood. (1975 - 1981) (1685.62 ft3) This waste stream is listed in the HDT.	1685.6	
TRA-603-20H				TRA-603 Material Test Reactor Building - Wood. (Also 642, 670, & 632) (1960 - 1977) (1051.013 ft3) This waste stream is listed in the HDT.	1051	

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
TRA-603-20H	P3			TRA603SR010/31/6182050 / Surplus wood shack formerly used as hot storage shack and assorted items inside (Unknown isotope; ~0.03 total curies)	380	0+75' S & 0+30' W
TRA-603-20H ?	P4			TRA642SR008/21/63800 / Contaminated lumber (retention basin) (unknown isotope, 27 uCi)	800	100' from West end, 90' from North side
TRA-603-20H ?	P4			TRA603SR008/28/63800 / Contaminated lumber - Retention basin (unknown isotope .001Ci)	144	1+00 from West end & 0+90 from North side
TRA-603-20H ?	P4			TRA603SR008/28/63810 / Contaminated lumber from retention basin (MFP, 0.001 Ci)	144	0+80 from West end, 0+90 from North side
TRA-603-20H ?	P4			TRA603SR008/28/63820 / Contaminated lumber from retention basin. (MFP, 0.001 Ci)	144	1+00 from West end, 0+80 from North side
TRA-603-20H ?	P4			TRA603SR008/29/63800 / Contaminated lumber from retention basin (mixed fission products 0.001 Ci)	144	70' from West end, 80' from North side
TRA-603-20H ?	P4			TRA603SR008/29/63810 / Contaminated lumber from retention basin (mixed fission products, < 0.001 Ci)	144	70' from West end, 80' from North side
TRA-603-20H	P4			TRA603SR009/03/63800 / Contaminated lumber, (retention basin) (MFP, 0.001 Ci)	144	60' from West end, 85' from North side
TRA-603-20H ?	P4			TRA603SR009/09/63800 / mixed fission products on lumber, <1 mCi)	144	50' from West end, 80' from North side
TRA-603-20H	P5			TRA603SR012/13/65800 / 3/4 in plywood box, plastic wrapped (unknown isotope, 1 mCi)	6.25	90' East & 75' North of S/W Monument
TRA-603-20H	P5			TRA642SR011/16/66350 / Cardboard boxes and stainless piping (unknown isotope, 191 mCi)	128	170' North of S/W Monument
TRA-603-21H				TRA-603 Material Test Reactor Building - Construction materials, concrete, block, sand, soil, and asphalt. (1960 - 1978) (399.0 m3) This waste stream is listed in HDT.	14,090.60	

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
TRA-603-21H ?	P2			TRA603SR006/18/6380020020 / Solid waste in cardboard boxes (unknown isotope, 357.5 mCi)	132	60' from West and 40' from North side
TRA-603-21H ?	P2			TRA603SR006/18/6381020020 / RWMIS data only, Rad waste NOS (unknown isotope, 3.6E-01Ci)	132	RWMIS: 1+40 West, 0+40 North
TRA-603-21H ?	P3			TRA603SR009/12/6180020 / Unknown number of cardboard boxes containing const. waste material, wood, steel, paper, etc. (Unknown isotope; <0.001 total curies)	144	1+30' S & 0+15' W
TRA-603-21H ?	P4			TRA603SR009/11/63800 / Contaminated concrete (MFP, < 0.001 Ci)	108	50' from West end, 80' from North side
TRA-603-21H ?	P4			TRA603SR009/11/63810 / Concrete blocks (MFP, < 0.001 Ci)	108	50' from West end, 80' from North side
TRA-603-21H ?	P5			TRA653SR009/12/66130 / Contaminated asphalt (unknown isotope, 16.5 mCi)	27	210' North of the S/W Monument
TRA-603-21H ?	P10			TRA617SR006/24/71150 / Asphalt paving (MFP, 4 mCi)	36	275' West & 30' South of NE Monument
TRA-603-21H ?	P10			TRA617SR006/28/71103 / Gravel, asphalt paving (MFP, 2.75 mCi)	162	270' West & 50' South of NE Monument
TRA-603-21H ?	P10			TRA617SR006/28/71133 / Gravel, asphalt paving (MFP, 2.75 mCi)	162	275' West & 40' South of NE Monument
TRA-603-21H ?	P10			TRA617SR006/28/71153 / Gravel, asphalt, paving (mixed fission products 2.75 mCi)	162	275' West & 60' South of NE Monument
TRA-603-22H				TRA-603 Material Test Reactor Building - Rags, floor sweepings and glassware. (Also 604, 614, 624, 632, 642, 647, 653, 657, 662, & 670). (1971 - 1983) (1204.0978 m3) This waste stream is listed in the HDT.	42,522.30	
TRA-603-23H		Terphenyl - 447.2016 kg	447.2016 kg	TRA-603 Material Test Reactor Building - Terphenyl (Santo-wax). (Terphenyl is an organic moderator used in loops). (1965 - 1965) (100.0 gal.) This waste stream is listed in the HDT.	13.37	

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
TRA-603-24H		Ammonia - 777.5 kg	777.5 kg	TRA-603 Material Test Reactor Building - Gas bottles (steel). (1964 - 1964) (6.1736 ft3) This waste stream is listed in the HDT.	6.17	
TRA-603-25H		Sodium - 68.04 kg	68.04 kg	TRA-603 Material Test Reactor Building - Sodium metal. (1960 - 1960) (0.4531 ft3) This waste stream is listed in HDT.	0.453	
TRA-603-26H		Lead - 137617 kg	137617 kg*	TRA-603 Material Test Reactor Building - Lead. (1960 - 1983) (115.49 ft3) This waste stream is listed in HDT.		
TRA-603-26H ?	P3	Lead	??	TRA603SR006/05/61800100 / 6 wooden boxes containing lead and steel removal equipment from old KAPL 30 loop at MTR, including cask, water tanks, shielding, tables, misc. metal parts (Unknown isotope; <0.1 total curies)	316	0+15' N & 0+05' E run 20' N
TRA-603-26H ?	P3	Lead	??	TRA653SR001/19/6281091 / Unknown number of poly and wood containers containing scrap lead (Unknown isotope; 0.0001 total curies)	2	1+10' S & 0+50' W
TRA-603-26H ?	P10	Lead		TRASR004/16/71245 / Blocks, scrap equipment, stainless steel, lead? (mixed fission products 0.0275 Ci)	254	280-300' West and 0-30' South
TRA-603-26H ?	P10	Lead	??	TRASR004/20/71250 / Stainless steel, lead shielding block, black iron, boxes, other scrap equipment (unknown isotope, 0.0825 Ci)	294	280-300' West & 20-40' South of NE Monument
TRA-603-26H ?	P10	Lead		TRASR004/21/71252 / Black iron, lead shielding, blocks, pallets, scrap equipment (unknown isotope, 0.0385 Ci)	512	280-300' West & 10-30' South of NE Monument
TRA-617				TRA-617 Warehouse No waste stream in the HDT could be identified with shipments with source TRA-617.		
TRA-617 ?	P10			TRA617SR006/29/71103 / Gravel, asphalt paving (MFP 2.75 mCi)	135	275' West & 60' South of NE Monument
TRA-617 ?	P10			TRA617SR006/29/71103 / Gravel, asphalt paving (MFP 2.75 mCi) (unknown isotope, 1 uCi)	162	275' West & 60' South of NE Monument

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
TRA-618				TRA-618 Warehouse No waste stream in the HDT could be identified with shipments with source TRA-618.		
TRA-618 ?	P10			TRA618SR003/21/69800 / CNOS SS tubing with slight contamination and induced radiation (from C-7 Dowtherm heat exchangers) (unknown isotope, < 1Ci)	3	70' East & 45' North of SW-2 Monument
TRA-618 ?	P10			TRA618SR003/21/69810 / CNOS SS tubing with slight contamination and induced radiation (from C-7 Dowtherm heat exchangers) (unknown isotope, < 1Ci)	3	70' East & 45' North of SW-2 Monument
TRA-632-1H				TRA-632 Hot Cell Building - Core structural pieces. Scrap metal pieces from core. (1962 - 1983) (60.71 m3) This waste stream is listed in the HDT.	2144	
TRA-632-1H ?	P4			TRA632SR010/15/63810 / Old cutting machine base for NaK capsules (nil Ci)	64	100' from West end, 5' from North side
TRA-632-1H ?	P10			TRA632SR007/09/69800 / Blotting paper, aluminum, and fission products (unknown isotope < 3 Ci)	2	450' East & 35' South of NW Monument
TRA-632-1H ?	P10			TRA632SR011/26/68820 / Steel blocks wrapped in plastic on a pallet and other items, fission product contamination (unknown isotope, < 1 Ci)	4	225' East & 25' South of NW Monument
TRA-642-1H				TRA-642 Engineering Test Reactor Building - Fission chambers with foils. (Also 647 & 654). (1969 - 1975) (0.0849 ft3) This waste stream is listed in the HDT.	0.0849	
TRA-642-2H				TRA-642 Engineering Test Reactor Building - Insulation. (Also 706). (1962 - 1975) (? ft3) This waste stream is listed in the HDT.		
TRA-642-2H ?	P3			TRA642SR003/23/62800205 / Unknown number of cardboard containers containing mixed fission products due to reactor operations (Unknown isotope; 0.110 total curies)	216	1+45' S & 0+05' W
TRA-642-2H ?	P3			TRA642SR008/11/6181020 / No container, just fission and corrosion products (Unknown isotope; 0.005 total curies)	50	1+10' S & 0+70' W
TRA-642-2H ?	P4			TRA642SR005/11/661 / Metal pipe and insulation out of dowtherm cubicle (unknown isotope, 0.016 Ci)	108	305' West of the SE Monument

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
TRA-642-2H ?	P4			TRA642SR005/11/662 / Metal pipe and insulation out of dowtherm cubicle (unknown isotope, 0.016 Ci)	108	319' West of the SE Monument
TRA-642-2H ?	P4			TRA642SR005/11/663 / Metal pipe and insulation out of dowtherm cubicle (MFP, 10 mCi)	108	310' West of the SE Monument
TRA-642-3H				TRA-642 Engineering Test Reactor Building - Hydrofluoric acid (HF) solidified and neutralized as NaF. (Material has been rendered non-hazardous by solidification as defined in 40CFR268). (1962 - 1962) (0.2832 ft3) This waste stream is listed in HDT.	0.2832	
TRA-642-4H				TRA-642 Engineering Test Reactor Building - Rags, paper, and wipes. (Also 603 & 670). (1966 - 1982) (120.0 ft3) This waste stream is listed in HDT.	120	
TRA-642-5H				TRA-642 Engineering Test Reactor Building - Irradiated fuel rods. (1960 - 1960) (4.532 ft3) This waste stream is listed in HDT.	4.532	
TRA-642-6H				TRA-642 Engineering Test Reactor Building - Scrap metal pieces. From underwater cutting in the canals. (1964 - 1977) (40.74 m3) This waste stream is listed in the HDT.	1438.7	
TRA-642-6H ?	P9	Lead	??	TRA642SR009/05/68810100 / Stainless steel and lead (unknown isotope, <0.001 Ci)	20	170' South of NE Monument
TRA-642-6H ?	P4			TRA642SR004/12/661 / Scrap metal from L-12/M-13 cubicle (unknown isotope 11 mCi)	108	315' West and 10' North of S/E Monument
TRA-642-6H ?	P4			TRA642SR004/12/663 / Contaminated metal from L-12/M-13 cubicle (unknown isotope .138 Ci)	108	315' West and 10' North of S/E Monument
TRA-642-6H ?	P4			TRA642SR004/13/662 / Contaminated metal from L-12/M-13 cubicle (unknown isotope .027 Ci)	108	315' West and 90' North of S/E Monument
TRA-642-6H	P4			TRA642SR004/28/662 / Dowtherm piping from L-12, M-13 area (MFP, 10 mCi)	108	320' West of SE Monument
TRA-642-6H	P4			TRA642SR004/28/663 / Dowtherm piping from L-12, M-13 area (MFP, 10 mCi)	108	320' West of SE Monument

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
TRA-642-6H	P4			TRA642SR005/10/662 / Contaminated piping and metal from L-12/M-13 cubicle (unknown isotope, 0.008 Ci)	108	275' West of the SE Monument
TRA-642-6H	P4			TRA642SR005/10/664 / Contaminated Piping and metal from L-12/M-13 cubicle (unknown isotope, 0.143 Ci)	108	275' West of S/E Monument
TRA-642-6H	P4			TRA642SR005/13/661 / contaminated piping and equipment from L-12/M-13 cubicle (Dowtherm) (unknown isotope, 16 mCi)	108	315' West of the SE Monument
TRA-642-6H ?	P4			TRA642SR011/15/661 / Cardboard boxes and stainless pipe (unknown isotope, 55 mCi)	128	260' West and 20' North of SE Monument
TRA-642-6H ?	P4			TRA642SR012/20/662 / concrete, dirt, wood, fission products (No Ci data)	150	260' West and 95' North of SE Monument
TRA-642-6H ?	P4			TRA642SR001/24/67820 / Metal and wood (MFP, 0.01 Ci)	200	225' West & 40' North of SE Monument
TRA-642-6H ?	P5			TRA642SR009/21/64115 / Metal (unknown isotope, 22 mCi)	17	87' South of N/W Marker
TRA-642-6H ?	P5			TRA653SR011/10/66130 / L-12/M-13 piping and B-7 sample cabinet unknown isotope 50 mCi)	200	195' North & 10' West of S/W Monument
TRA-642-6H ?	P6			TRA642SR007/26/67800 / Piping, rags and unreadable (unknown isotope, 2 mCi)	300	165' West of the SE Monument
TRA-642-6H ?	P6			TRA642SR006/06/68840 / Piping and rags from C-7 cubicle (unknown isotope, 16 mCi)	100	40' North & 20-30' West of the SE Monument
TRA-642-6H	P9			TRA642SR011/15/678000000 / Miscellaneous scrap valves, instruments, test loop parts, majority in wooden crates (unknown isotope, 1.2 Ci)	4000	220-235' North & 5-20' East of SW Monument
TRA-642-6H ?	P9			TRA642SR004/16/6880020 / gravel (unknown isotope, 1 mCi)	35	165' North of SW Monument
TRA-642-6H ?	P9			TRA642SR004/16/6881020 / gravel (unknown isotope, 1 mCi)	67	165' North of SW Monument
TRA-642-6H	P9			TRA642SR006/04/6880020 / C-7 dowtherm piping and metal (unknown isotope, 11 mCi)	84	160-170' North & 20-25' East of SW Monument

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
TRA-642-6H ?	P9			TRA642SR006/04/6881020 / C-7 cubicle piping and metal (unknown isotope, 11 mCi)	96	100-170' North & 20-25' East of SW Monument
TRA-642-6H ?	P9			TRA642SR006/04/6882020 / C-7 dowtherm piping and metal (unknown isotope, 11 mCi)	96	160-170 North & 20-25' East of SW Monument
TRA-642-6H	P9			TRA642SR006/04/6883020 / C-7 dowtherm piping and metal (unknown isotope, 11 mCi)	84	160-170' North & 20-25' East of SW Monument
TRA-642-6H ?	P9			TRA642SR006/04/6884050 / Metal (unknown isotope, 28 mCi)	96	160-170' North & 20-25' East of SW Monument
TRA-642-6H	P9			TRA642SR006/05/6880020 / C-7 dowtherm piping and metal (unknown isotope, 0.011 Ci)	96	150-160' North & 20-25' East of SW Monument
TRA-642-6H ?	P9			TRA642SR006/05/6881020 / Piping and metal from C-7 cubicle (unknown isotope, 11 mCi)	84	160-170' North & 25-30' East of SW Monument
TRA-642-6H ?	P9			TRA642SR006/05/6882030 / Piping and metal from C-7 cubicle (unknown isotope, 16 mCi)	96	150-160' North & 20-25' East of SW Monument
TRA-642-6H ?	P9			TRA642SR006/05/6883030 / C-7 piping and metal (unknown isotope, 16 mCi)	96	160-170' North & 15-20' East of SW Monument
TRA-642-6H ?	P9			TRA642SR006/06/6881030 / C-7 piping and metal (unknown isotope, 16 mCi)	96	150-160' North & 15-20' East of SW Monument
TRA-642-6H ?	P9			TRA642SR006/06/68820 / C-7 piping and metal (unknown isotope 27 mCi)	96	160-170' North & 15-20' East of SW Monument

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
TRA-642-6H ?	P9			TRA642SR006/06/6883072 / C-7 dowerm piping and metal (unknown isotope, 25 mCi)	96	160-170' North & 20-25' East of SW Monument
TRA-642-6H ?	P9			TRA642SR006/10/68800707 / C-7 piping and metal (unknown isotope, 275 mCi)	96	140' North & 15' East of SW Monument
TRA-642-6H ?	P9			TRA642SR006/10/6881070 / C-7 dowerm piping and metal (unknown isotope, 35 mCi)	96	145' North & 15' East of SW Monument
TRA-642-6H ?	P9			TRA642SR009/09/6880020 / Metal (unknown isotope, 12.5 mCi)	92	165' South of NE Monument
TRA-642-6H ?	P9			TRA642SR012/14/67810 / Miscellaneous scrap valves, instruments, test loop parts, etc. wooden crates (unknown isotope < 1 mCi)	1500	220-230' North & 10-25' East of SW Monument
TRA-642-6H ?	P9			TRA642SR012/15/6780050 / Mixed scrap parts, some boxed (unknown isotope, < 1 mCi)	405	210-225' North & 15-25' East of SW Monument
TRA-642-6H ?	P10			TRA642SR006/13/69840 / GEH B-3 Catch Tank Wall Blocks (unknown isotope, <0.1 mCi)	108	420' East & 20' South of NW Monument
TRA-642-6H ?	P10			TRA642SR006/13/69850 / GEH B-3 Catch Tank Wall Blocks (unknown isotope, <0.1 mCi)	108	420' East & 20' South of NW Monument
TRA-642-6H ?	P10			TRA642SR006/13/69900 / GEH B-3 Catch Tank Wall Blocks (unknown isotope, <0.1 mCi)	108	420' East & 20' North of SW-2 Monument
TRA-642-6H ?	P10			TRA642SR006/16/69820 / GEH B-3 Catch Tank (unknown isotope, <0.1Ci)	120	450' East & 60' South of NW Monument
TRA-642-6H ?	P10			TRA642SR006/16/69830 / GEH B-3 Reserve Tank (unknown isotope, <0.1 mCi)	35	440'-455' East & 55' South of NW Monument
TRA-642-6H ?	P10			TRA642SR006/19/69810 / Wood and metal (unknown isotope, 121 mCi)	50	415' East & 35' South of NW Monument

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
TRA-642-6H ?	P10			TRA642SR006/26/69820 / GEH B-3 Piping (unknown isotope, <0.1 mCi)	108	280' East & 10' North of SW - 2 Monument
TRA-642-6H ?	P10			TRA642SR007/22/69810 / Miscellaneous piping and shielding material from KAPL BB-1 loop (MFP, <0.1 mCi)	94	285' East & 10' North of SW-2 Monument
TRA-642-6H ?	P10			TRA642SR011/12/69800 / Metal and contaminated material from F/H-10 (unknown isotope, 0.138 Ci)	56	475' West & 15' South of NE Monument
TRA-642-6H ?	P10			TRA642SR011/12/69810 / Metal and contaminated material from F/H-10 (unknown isotope, 0.055 Ci)	56	470' West of NE Monument
TRA-642-6H ?	P10			TRA642SR011/20/69800 / Tank and heater equipment from KAPL cubicle (unknown isotope, 110 mCi)	96	390' West & 30' North of SE Monument
TRA-642-6H ?	P10			TRA642SR002/05/70810 / Miscellaneous equipment (unknown isotope < 0.1 mCi)	81	370' West & 50' South of NE Monument
TRA-642-6H ?	P10			TRA642SR002/05/70820 / BAPL Primary Pump (west) serial number W AEC 01088 (unknown isotope, 1.6 Ci)	3	370' West & 50' South of NE Monument
TRA-642-6H ?	P10			TRA642SR005/01/70820 / Piping and wood from heat exchanger building (unknown isotope, 127 mCi)	94.5	330' West & 70' South of NE Monument
TRA-642-6H ?	P10			TRA642SR005/08/70820 / Miscellaneous piping and material from PAED G-12 loop (unknown isotope, < 0.1 mCi)	94.5	330' West & 70' South of NE Monument
TRA-642-6H ?	P10			TRA642SR006/03/70810 / Miscellaneous piping and material from PAED G-12 loop (unknown isotope, 560 mCi)	94.5	330' West & 85' South of NE Monument
TRA-642-6H ?	P10			TRA642SR006/03/70820 / Miscellaneous piping and material from PAED G-12 loop (unknown isotope, < 0.1 mCi)	94.5	330' West & 85' South of NE Monument
TRA-642-6H ?	P10			TRA642SR006/03/70830 / Miscellaneous piping and material from PAED G-12 loop (unknown isotope, <0.1 mCi)	94.5	330' West & 85' South of NE Monument
TRA-642-6H ?	P10			TRA642SR007/28/70800 / Metal scraps (unknown isotope, 27.5 mCi)	96	325' West & 70' South of NE Monument

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
TRA-642-6H ?	P10			TRA642SR007/28/70810 / Scrap metal (unknown isotope, 22 mCi)	128	320' West & 70' South of NE Monument
TRA-642-6H ?	P10			TRA642SR008/05/70810 / Scrap metal etc. (unknown isotope, 0.033 Ci)	72	325' West & 70' South of NE Monument
TRA-642-6H ?	P10			TRA642SR012/04/70800 / Carbon steel, glass lined tanks (MFP, 2 Ci)	1430	275-300' West & 40-60' South of NE Monument
TRA-642-7H				TRA-642 Engineering Test Reactor Building - Various combustible materials. (1965 - 1965) (3.7633 ft ³) <i>This waste stream is listed in HDT.</i>	3.7633	
TRA-647				TRA-647 ETR Office Building <i>No waste stream in the HDT could be identified with shipments with source TRA-647.</i>		
TRA-647 ?	P10			TRA647SR006/16/71111 / Metal waste (MFP, 4.13E-02 Ci)	108	270' West & 90' South of NE Monument
TRA-647 ?	P10			TRA647SR006/21/71143/Loop piping (MFP, .963 Ci)	54	280' West & 50' South of NE Monument
TRA-653-1H		Benzine (Ligroin) - 4 kg	4 kg*	TRA-653 Maintenance Building - Benzine (known as ligroin, highly flammable liquid. Toxic if ingested or inhaled). (Probably in polystyrene bottle). (1964 - 1964) (0.0038 gal.) <i>This waste stream is listed in HDT.</i>	0.0005	
TRA-661				TRA-661 Radiochemistry Laboratories <i>No waste stream in the HDT could be identified with shipments with source TRA-661.</i>		
TRA-661 ?	P4			TRA661SR003/30/641 / PA-231 as oxide, content code: glovebox inside wood (50 uCi alpha)	64	490' from East end, South side
TRA-661 ?	P6			TRA661SR009/21/67800 / Metal (unknown isotope, 0.022 mCi)	108	45' West of the SE Monument

Wastestream	RFP TRU Pit/Trench #	Non-Rad Contaminant	Quantity	Document Id/Comments	Volume (ft ³)	Burial Location (from Shipping Papers)
TRA-661 ?	P6			TRA661SR010/18/67800 / Mechanical isolation box and associated equipment such as press, saw, balance, etc. (box contains highly contaminated alpha emitters, care must be exercised not to break seal) (unknown isotope, 2 Ci)	64	250-255' West and 10-15' North of the SE Monument
TRA-661 ?	P10			TRA661SR010/09/7080031 / Used heavy density brick (MFP, 0.001 Ci)	744	Unknown

(Red lettering)

	Waste stream description
	Non-Rad contaminants from HDT
	Shipment with apparently no hazardous or listed waste

Waste Stream ?

PUL Possible upper limit

ULE Upper limit estimate