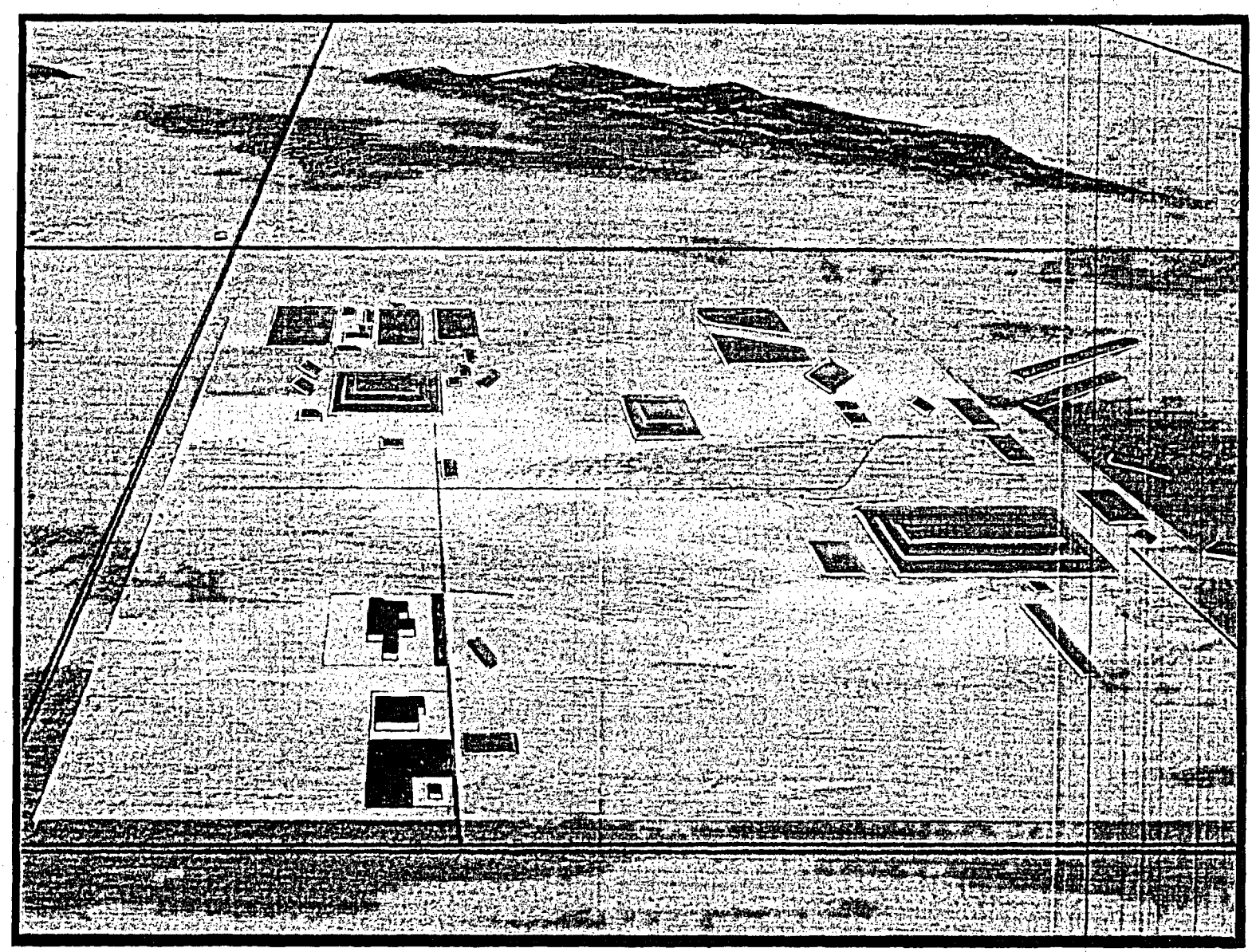
Volume II

Tour/Data Book



United States Environmental Protection Agency

Staff Site Visit

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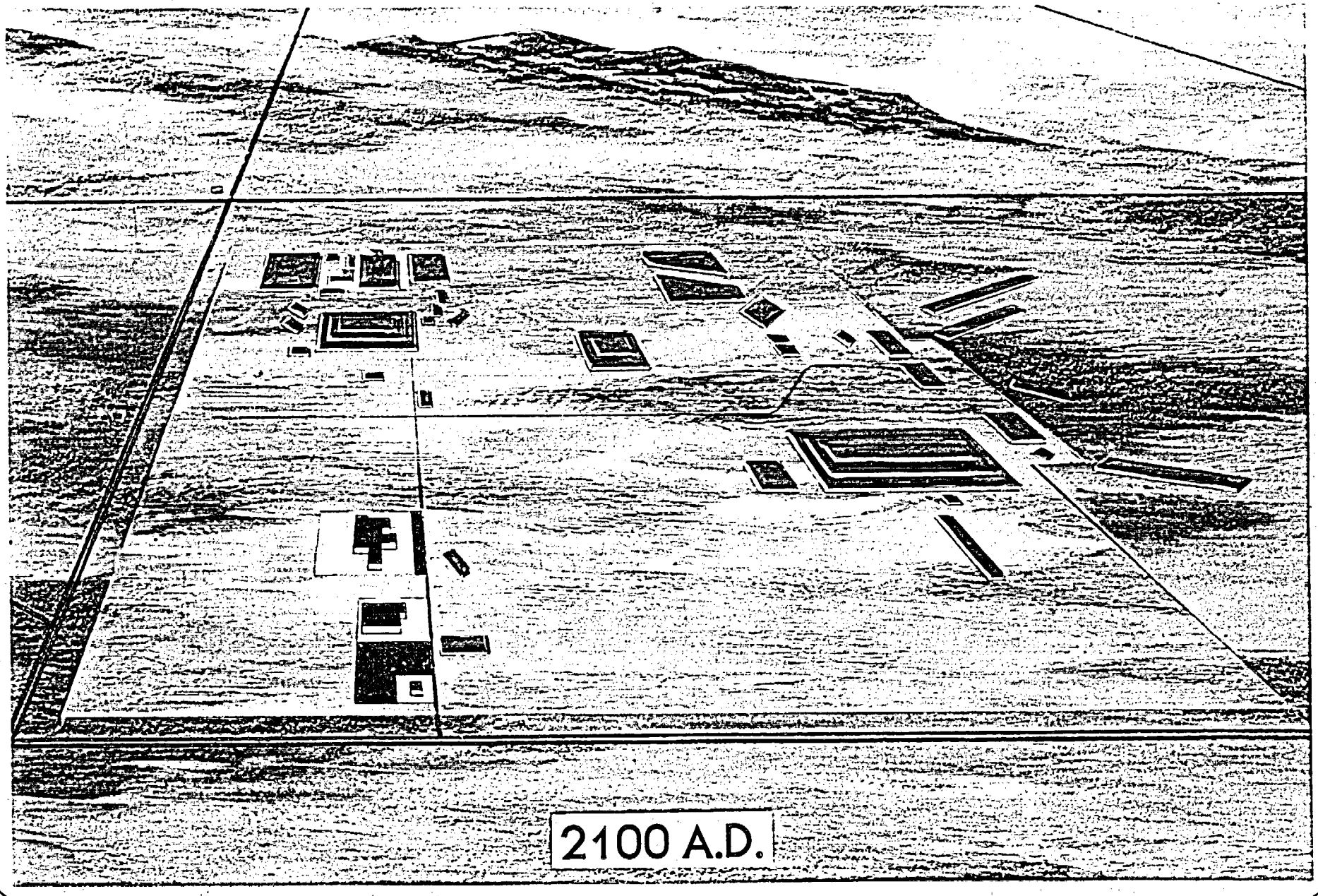
PDR WASTE
WM-10 PDR

DOE-RL
HANFORD DEFENSE WASTE DISPOSAL PROGRAM

EPA STAFF SITE VISIT



VOLUME II

U.S. DEPARTMENT
OF ENERGY

HANFORD DEFENSE WASTE DISPOSAL PROGRAM

PROGRAMMATIC & TECHNOLOGY STATUS BRIEFINGS TO

U.S. ENVIRONMENTAL PROTECTION AGENCY

RICHLAND, WASHINGTON
OCTOBER 1983

ROCKWELL HANFORD OPERATIONS
ENERGY SYSTEMS GROUP
RICHLAND, WASHINGTON

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INTRODUCTION

THIS TOUR BOOK HANDOUT CONTAINS INFORMATION AND DATA AS IT WAS PRESENTED TO THE U.S. ENVIRONMENTAL PROTECTION AGENCY STAFF MEMBERS DURING THE TOUR OF HANFORD FACILITIES AND WASTE SITES.

THE FOLLOWING SECTIONS PROVIDE SUMMARIZED AND SPECIFIC TECHNICAL AND PROGRAMMATIC INFORMATION CONCERNING HANFORD'S WASTE SITES INCLUDING; DESCRIPTION, GRAPHICS, AND CHARACTERIZATION.

THIS MATERIAL IS PRELIMINARY PLANNING DATA COMPILED TO AID IN UNDERSTANDING OF SITES DURING TOURS OF HANFORD.

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SECTION A - SINGLE-SHELL AND DOUBLE-SHELL TANK SUMMARY
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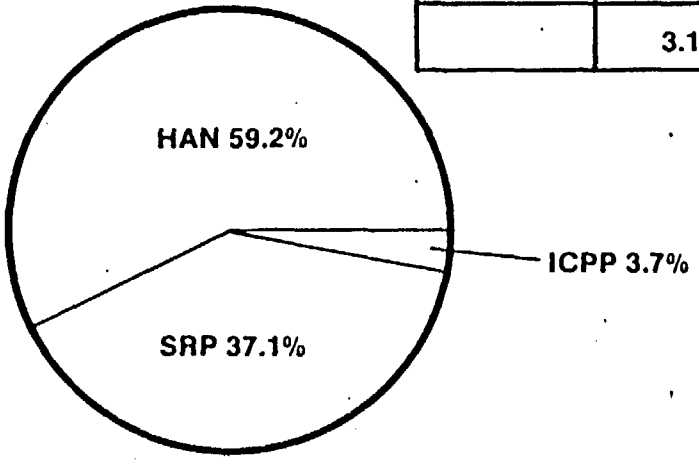
SECTION M - ENGINEERED BARRIER TEST

INTRODUCTION

TOTAL IN-TANK WASTE THROUGH 1982

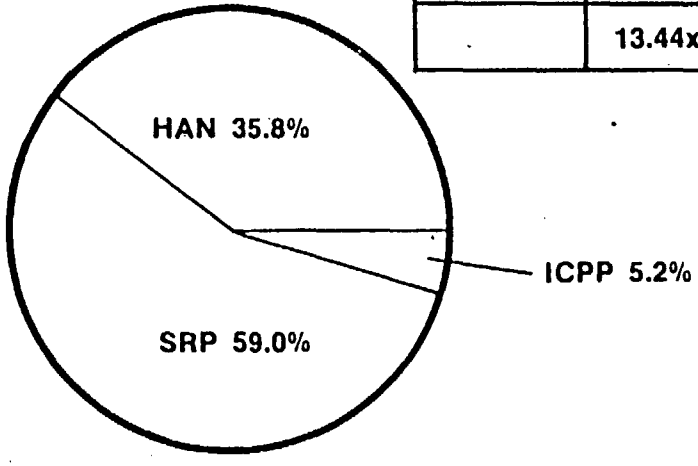
VOLUMES OF HLW

SITE	CUBIC METERS
HAN	1.83×10^5
ICPP	$.12 \times 10^5$
SRP	1.15×10^5
	3.10×10^5



RADIOACTIVITY OF HLW

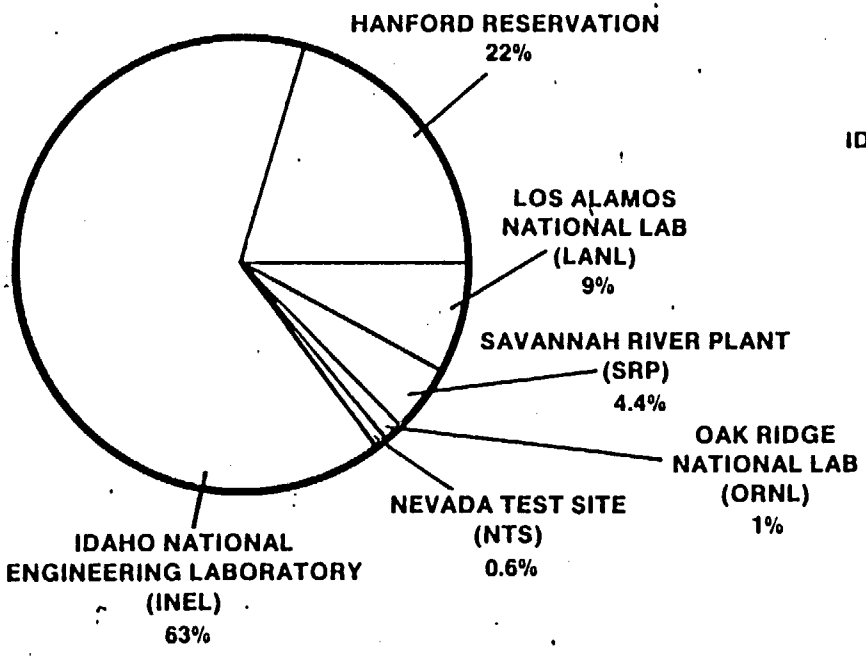
SITE	CURIES
HAN	4.81×10^8
ICPP	$.70 \times 10^8$
SRP	7.93×10^8
	13.44×10^8



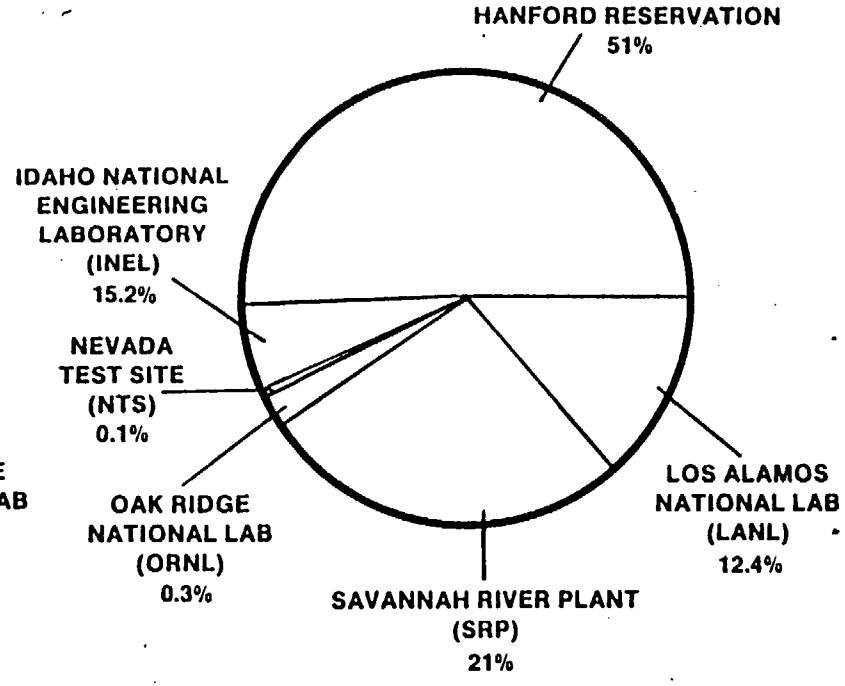
INTRODUCTION

VOLUME AND RADIOACTIVITY OF RETRIEVABLY STORED TRANSURANIC WASTE ACCUMULATED THROUGH 1982

TRANSURANIC WASTE VOLUME
TOTAL: 60 THOUSAND CUBIC METERS



TRANSURANIC WASTE RADIOACTIVITY
TOTAL: 2 MILLION CURIES*



* INCLUDES NON-DECAYED BETA-GAMMA ACTIVITY

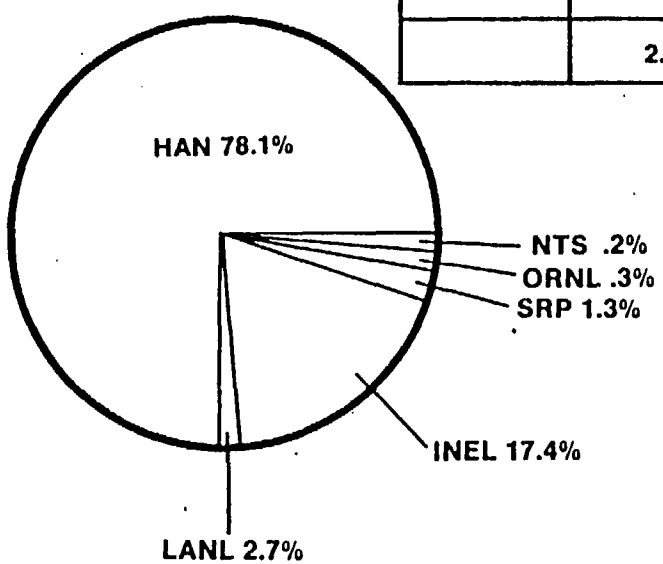
INTRODUCTION

TOTAL TRANSURANIC (TRU) WASTE THROUGH 1982

INCLUDES STORED TRU AND NON-RETRIEVABLE TRU AT HANFORD

VOLUMES OF TRU WASTE

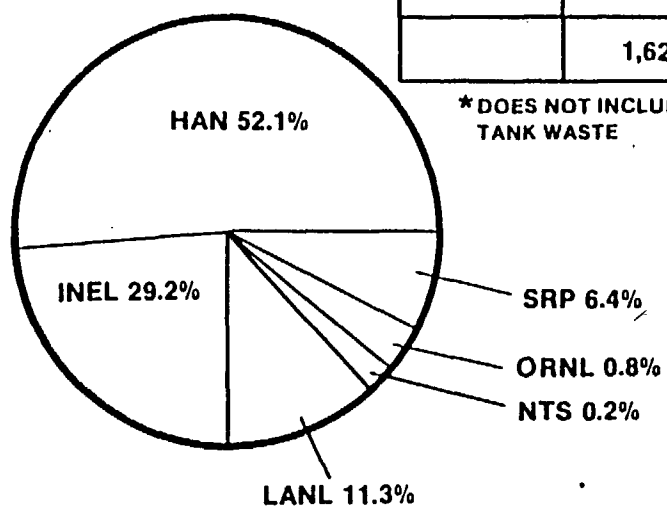
SITE	CUBIC METERS
HANF	1.700×10^5
INEL	$.380 \times 10^5$
LANL	$.059 \times 10^5$
NTS	$.004 \times 10^5$
ORNL	$.006 \times 10^5$
SRP	$.029 \times 10^5$
	2.200×10^5



MASS OF TRU ELEMENTS IN WASTE

SITE	KG
HANF	848.0 *
INEL	476.0
LANL	184.0
NTS	3.2
ORNL	12.6
SRP	104.0
	1,628

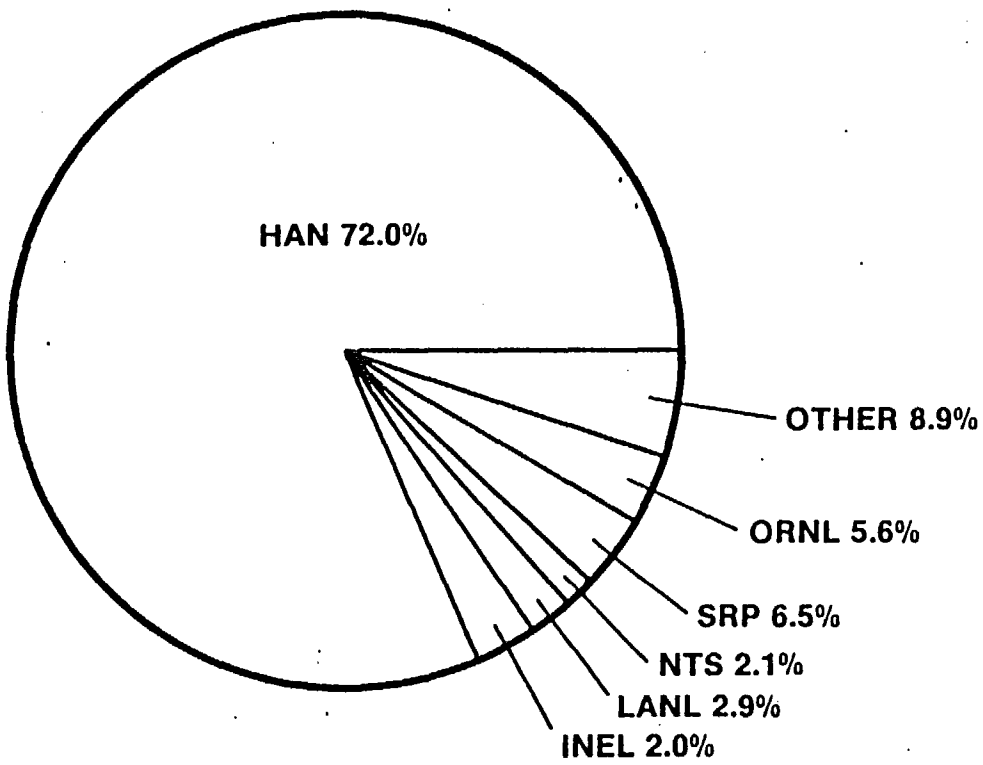
*DOES NOT INCLUDE TANK WASTE



INTRODUCTION

TOTAL LOW-LEVEL WASTE THROUGH 1982

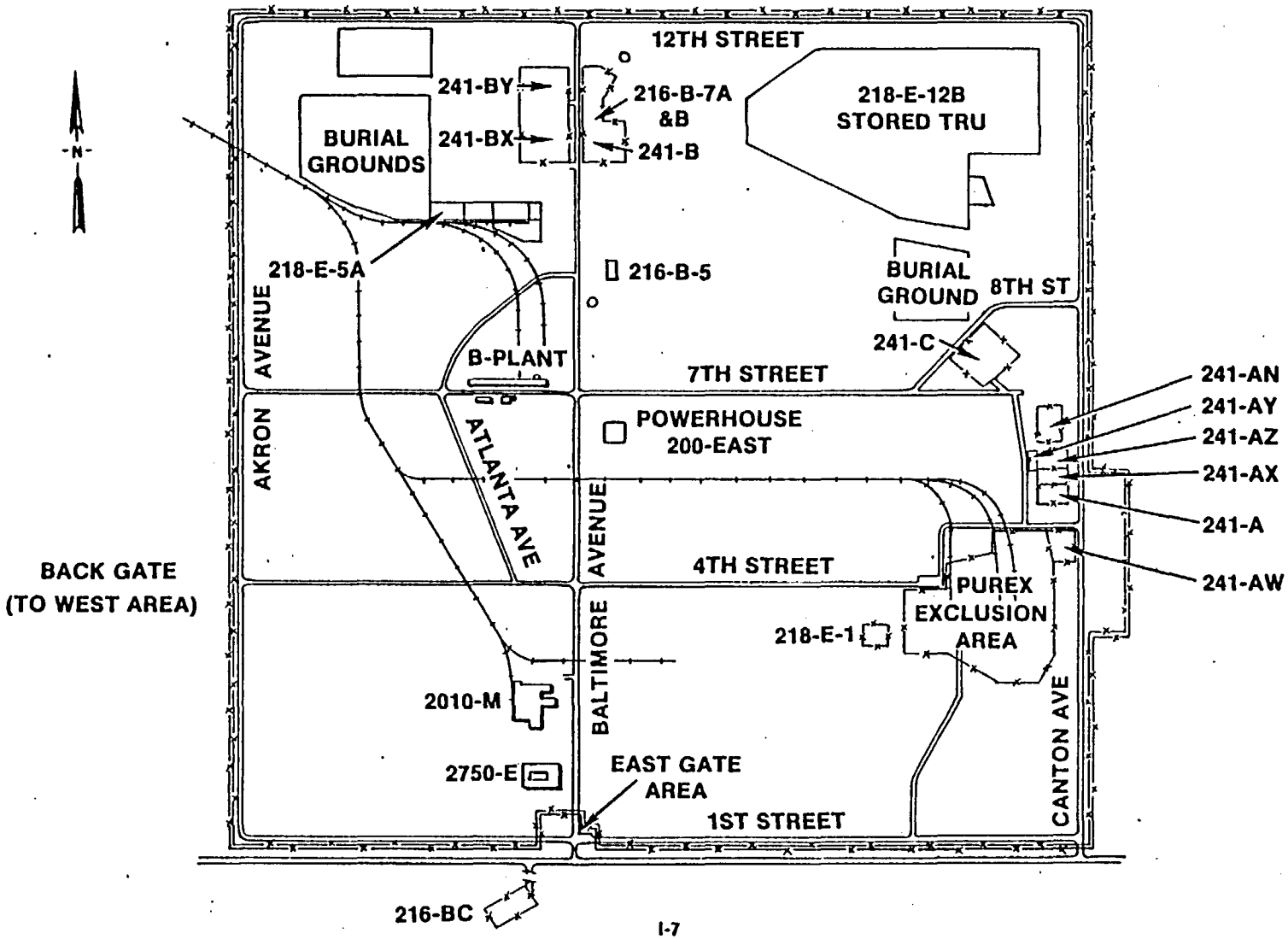
VOLUME OF LOW-LEVEL WASTE



SITE	CUBIC METERS
HAN*	4.30×10^6
INEL	$.12 \times 10^6$
LANL	$.17 \times 10^6$
NTS	$.12 \times 10^6$
SRP	$.39 \times 10^6$
ORNL	$.33 \times 10^6$
OTHER	$.53 \times 10^6$
	5.97×10^6

* INCLUDES LIQUID DISPOSAL SITES

INTRODUCTION
200 EAST AREA



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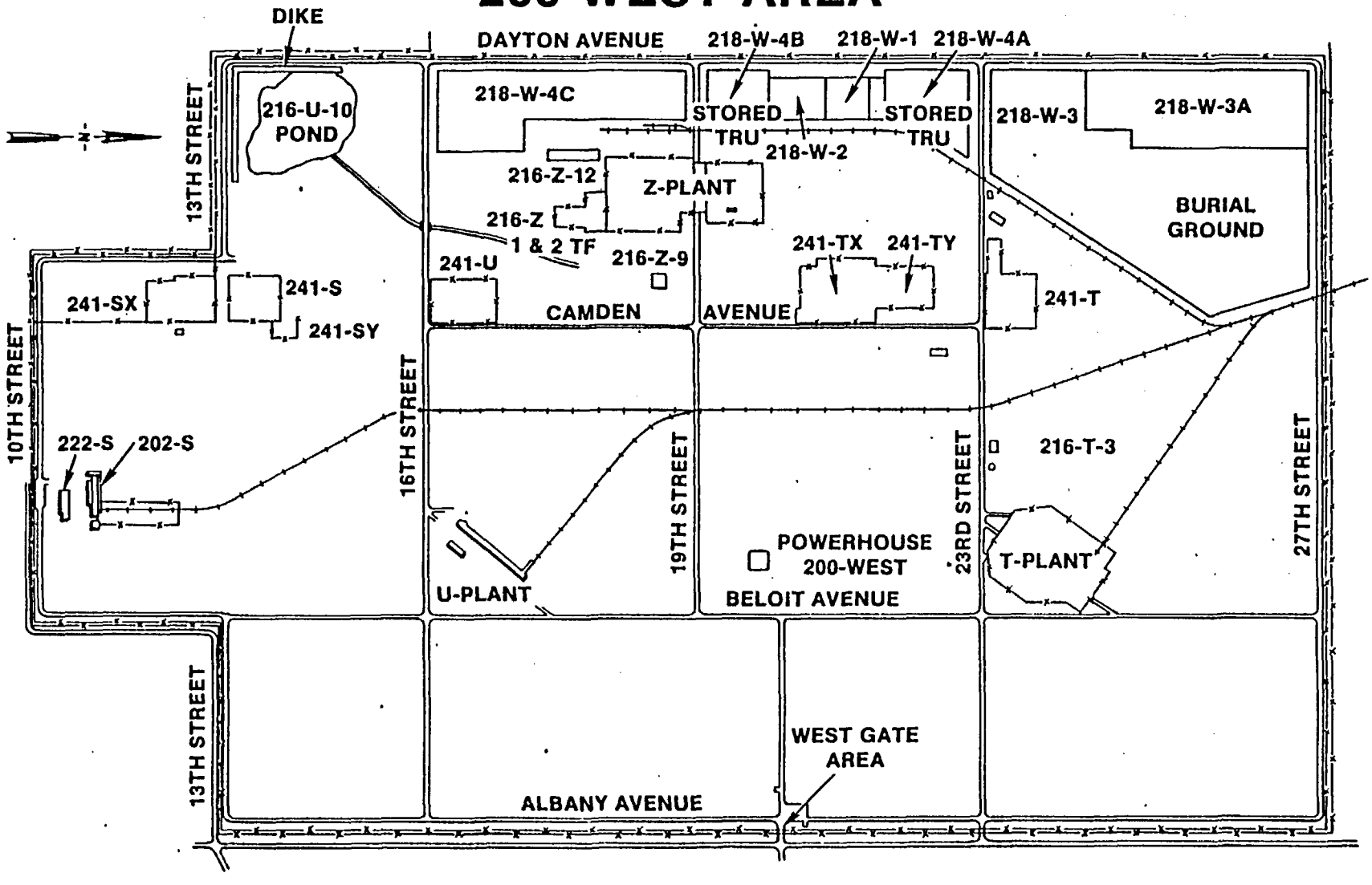
200 WEST AREA



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SECTION L - LIQUID TRU WASTE SITE PLUME DATA
SECTION M - ENGINEERED BARRIER TEST

PRELIMINARY DATA

Single Shell and Double Shell Tank Summary

High-Level liquid and slurry wastes are stored in single and double shell tanks in the 200 East and 200 West Areas. These tanks are within 91 acres of the Tank Farms. There are currently 17 tank farms. One tank form (241-AP) is under construction. The effective volume of existing waste (pre-CY1984) after completion of the interim waste management activities (jet pumping, evaporation) is estimated to be 1.5×10^5 cubic meters. The inventory of the tanks is shown below.

INVENTORY (Existing Waste)

AM-241	4.3×10^4	PU-239	2.2×10^4	SR-90	7.8×10^7
AM-242	6.8×10^1	PU-240	5.3×10^3	TC-99	3.1×10^4
AM-243	6.9×10^2	PU-241	1.0×10^5	CS-137	3.6×10^7
NP-237	6.2×10^1	C-14	1.6×10^4	SM-151	8.7×10^5
PU-238	5.9×10^3				

Data provided on the tanks are estimates after the completion of interim waste management activities

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SECTION M - ENGINEERED BARRIER TEST

Single Shell Tank Summary Data

NAME	AREA	STATUS	DESCRIPTION	TRU CI*
A FARM	200E	INACTIVE	6, 1000 KGALS TANKS	8811.00
A-101	200E	SOUND	SALTCAKE, LIQUOR AND SLUDGE	3537.00
A-102	200E	SOUND	LIQUOR, SALTCAKE AND LIQUOR	2539.00
A-103	200E	SOUND	SALTCAKE, LIQUOR AND SLUDGE	208.00
A-104	200E	LEAKER	SLUDGE	5.00
A-105	200E	LEAKER	SLUDGE	0.00
A-106	200E	SOUND	SLUDGE AND LIQUOR	2522.00
AX FARM	200E	INACTIVE	4, 1000 KGAL TANKS	542.00
AX-101	200E	SOUND	SALTCAKE, LIQUOR AND SLUDGE	0.00
AX-102	200E	SOUND	LIQUOR, SALTCAKE AND SLUDGE	0.00
AX-103	200E	SOUND	SALTCAKE, LIQUOR AND SLUDGE	18.00
AX-104	200E	QUESTIONABLE INTEGRITY	SLUDGE	524.00
B FARM	200E	INACTIVE	12, 532 AND 4, 55 KGAL TANKS	2129.00
B-101	200E	QUESTIONABLE INTEGRITY	SLUDGE AND LIQUOR	831.00
B-102	200E	SOUND	SALTCAKE, SLUDGE AND LIQUOR	21.00
B-103	200E	QUESTIONABLE INTEGRITY	SALTCAKE AND LIQUOR	326.00
B-104	200E	SOUND	SLUDGE, SALTCAKE AND LIQUOR	94.00
B-105	200E	QUESTIONABLE INTEGRITY	SALTCAKE, LIQUOR AND SLUDGE	23.00
B-106	200E	SOUND	SLUDGE AND LIQUOR	1.00
B-107	200E	LEAKER	SLUDGE AND LIQUOR	70.00
B-108	200E	SOUND	SALTCAKE AND LIQUOR	71.00
B-109	200E	SOUND	SALTCAKE AND LIQUOR	143.00
B-110	200E	LEAKER	SLUDGE AND LIQUOR	169.00
B-111	200E	QUESTIONABLE INTEGRITY	SLUDGE AND LIQUOR	1.00
B-112	200E	QUESTIONABLE INTEGRITY	SLUDGE AND LIQUOR	97.00
B-201	200E	LEAKER	SLUDGE AND LIQUOR	0.00
B-202	200E	SOUND	SLUDGE AND LIQUOR	277.00
B-203	200E	SOUND	SLUDGE AND LIQUOR	0.00
B-204	200E	LEAKER	SLUDGE AND LIQUOR	5.00

*APPROXIMATION AFTER COMPLETION OF INTERIM WASTE MANAGEMENT PROGRAM

PAGE 1

PRELIMINARY DATA

Single Shell Tank Summary Data (cont.)

NAME	AREA	STATUS	DESCRIPTION	TRU CI*
BX FARM	200E	INACTIVE	12, 532 KGAL TANKS	1330.00
BX-101	200E	QUESTIONABLE INTEGRITY	SLUDGE AND LIQUOR	787.00
BX-102	200E	LEAKER	SLUDGE AND LIQUOR	1.00
BX-103	200E	SOUND	SLUDGE AND LIQUOR	36.00
BX-104	200E	SOUND	SLUDGE AND LIQUOR	119.00
BX-105	200E	SOUND	SLUDGE, LIQUOR AND SALTCAKE	8.00
BX-106	200E	SOUND	SLUDGE AND LIQUOR	67.00
BX-107	200E	SOUND	SLUDGE AND LIQUOR	45.00
BX-108	200E	LEAKER	SLUDGE AND LIQUOR	3.00
BX-109	200E	SOUND	SLUDGE AND LIQUOR	1.00
BX-110	200E	QUESTIONABLE INTEGRITY	SLUDGE, LIQUOR AND SALTCAKE	158.00
BX-111	200E	QUESTIONABLE INTEGRITY	SALTCAKE, SLUDGE AND LIQUOR	105.00
BX-112	200E	SOUND	SLUDGE AND LIQUOR	0.00
BY FARM	200E	INACTIVE	12, 758 KGAL TANKS	1909.00
BY-101	200E	SOUND	SLUDGE AND LIQUOR	143.00
BY-102	200E	SOUND	SLUDGE AND LIQUOR	14.00
BY-103	200E	LEAKER	SLUDGE AND LIQUOR	1239.00
BY-104	200E	SOUND	SLUDGE AND LIQUOR	76.00
BY-105	200E	QUESTIONABLE INTEGRITY	SLUDGE, LIQUOR AND SALTCAKE	58.00
BY-106	200E	QUESTIONABLE INTEGRITY	SLUDGE AND LIQUOR	40.00
BY-107	200E	QUESTIONABLE INTEGRITY	SLUDGE AND LIQUOR	114.00
BY-108	200E	LEAKER	SLUDGE	72.00
BY-109	200E	SOUND	SLUDGE AND LIQUOR	4.00
BY-110	200E	SOUND	SLUDGE AND LIQUOR	62.00
BY-111	200E	SOUND	LIQUOR AND SLUDGE	54.00
BY-112	200E	SOUND	SLUDGE AND LIQUOR	33.00
C FARM	200E	INACTIVE	12, 758 AND 4, 55 KGAL TANKS	20725.00
C-101	200E	LEAKER	SLUDGE AND LIQUOR	131.00

*APPROXIMATION AFTER COMPLETION OF INTERIM WASTE MANAGEMENT PROGRAM

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PRELIMINARY DATA

Single Shell Tank Summary Data (cont.)

NAME	AREA	STATUS	DESCRIPTION	TRU CI*
C-102	200E	SOUND	SLUDGE AND LIQUOR	3947.00
C-103	200E	SOUND	SLUDGE AND LIQUOR	210.00
C-104	200E	SOUND	SLUDGE AND LIQUOR	2000.00
C-105	200E	SOUND	SLUDGE AND LIQUOR	12814.00
C-106	200E	SOUND	SLUDGE AND LIQUOR	919.00
C-107	200E	SOUND	SLUDGE AND LIQUOR	300.00
C-108	200E	SOUND	SLUDGE	91.00
C-109	200E	SOUND	SLUDGE AND LIQUOR	0.00
C-110	200E	QUESTIONABLE INTEGRITY	SLUDGE AND LIQUOR	9.00
C-111	200E	QUESTIONABLE INTEGRITY	SLUDGE	243.00
C-112	200E	SOUND	SLUDGE AND LIQUOR	61.00
C-201	200E	SOUND	SLUDGE AND LIQUOR	0.00
C-202	200E	SOUND	SLUDGE	0.00
C-203	200E	SOUND	SLUDGE	0.00
C-204	200E	SOUND	SLUDGE	0.00
S FARM	200W	INACTIVE	12, 758 KGAL TANKS	3565.00
S-101	200W	SOUND	SLUDGE, SALTCAKE AND LIQUOR	496.00
S-102	200W	SOUND	SALTCAKE, SLUDGE AND LIQUOR	21.00
S-103	200W	SOUND	SALTCAKE, SLUDGE AND LIQUOR	14.00
S-104	200W	QUESTIONABLE INTEGRITY	SLUDGE AND LIQUOR	249.00
S-105	200W	SOUND	SALTCAKE, LIQUOR AND SLUDGE	17.00
S-106	200W	SOUND	SALTCAKE, LIQUOR AND SLUDGE	0.00
S-107	200W	SOUND	SLUDGE, SALTCAKE AND LIQUOR	1621.00
S-108	200W	SOUND	SALTCAKE, LIQUOR AND SLUDGE	184.00
S-109	200W	SOUND	SALTCAKE, LIQUOR AND SLUDGE	88.00
S-110	200W	SOUND	SALTCAKE, LIQUOR AND SLUDGE	379.00
S-111	200W	SOUND	SALTCAKE, LIQUOR AND SLUDGE	445.00
S-112	200W	SOUND	SALTCAKE, LIQUOR AND SLUDGE	51.00
SX FARM	200W	INACTIVE	15, 1000 KGAL	7570.00

*APPROXIMATION AFTER COMPLETION OF INTERIM WASTE MANAGEMENT PROGRAM

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PRELIMINARY DATA

Single Shell Tank Summary Data (cont.)

NAME	AREA	STATUS	DESCRIPTION	TRU CI*
SX-101	200W	SOUND	SALTCAKE, LIQUOR AND SLUDGE	125.00
SX-102	200W	SOUND	SALTCAKE, LIQUOR AND SLUDGE	1342.00
SX-103	200W	SOUND	SALTCAKE, LIQUOR AND SLUDGE	68.00
SX-104	200W	SOUND	SALTCAKE, LIQUOR AND SLUDGE	259.00
SX-105	200W	SOUND	SALTCAKE, LIQUOR AND SLUDGE	133.00
SX-106	200W	SOUND	SALTCAKE, LIQUOR AND SLUDGE	89.00
SX-107	200W	LEAKER	SLUDGE AND LIQUOR	744.00
SX-108	200W	LEAKER	SLUDGE AND LIQUOR	612.00
SX-109	200W	LEAKER	SLUDGE AND LIQUOR	478.00
SX-110	200W	QUESTIONABLE INTEGRITY	SLUDGE	971.00
SX-111	200W	LEAKER	SLUDGE AND LIQUOR	878.00
SX-112	200W	LEAKER	SLUDGE AND LIQUOR	265.00
SX-113	200W	LEAKER	SLUDGE AND LIQUOR	95.00
SX-114	200W	QUESTIONABLE INTEGRITY	SLUDGE AND LIQUOR	1301.00
SX-115	200W	LEAKER	SLUDGE	210.00
T FARM	200W	INACTIVE	12, 532 AND 4, 55 KGAL TANKS	3920.00
T-101	200W	SOUND	SLUDGE AND LIQUOR	1261.00
T-102	200W	SOUND	SLUDGE AND LIQUOR	15.00
T-103	200W	QUESTIONABLE INTEGRITY	SLUDGE AND LIQUOR	6.00
T-104	200W	SOUND	SLUDGE AND LIQUOR	117.00
T-105	200W	SOUND	SLUDGE AND LIQUOR	360.00
T-106	200W	LEAKER	SLUDGE AND LIQUOR	0.00
T-107	200W	QUESTIONABLE INTEGRITY	SLUDGE	696.00
T-108	200W	QUESTIONABLE INTEGRITY	SLUDGE AND LIQUOR	4.00
T-109	200W	QUESTIONABLE INTEGRITY	SLUDGE AND LIQUOR	0.00
T-110	200W	SOUND	SLUDGE AND LIQUOR	1315.00
T-111	200W	QUESTIONABLE INTEGRITY	SLUDGE AND LIQUOR	131.00
T-112	200W	SOUND	SLUDGE AND LIQUOR	11.00
T-201	200W	SOUND	SLUDGE AND LIQUOR	0.00
T-202	200W	SOUND	SLUDGE AND LIQUOR	0.00

*APPROXIMATION AFTER COMPLETION OF INTERIM WASTE MANAGEMENT PROGRAM

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PRELIMINARY DATA

Single Shell Tank Summary Data (cont.)

NAME	AREA	STATUS	DESCRIPTION	TRU CI*
T-203	200W	SOUND	SLUDGE AND LIQUOR	4.00
T-204	200W	SOUND	SLUDGE AND LIQUOR	0.00
TX FARM	200W	INACTIVE	18, 1000 KGAL TANKS	4222.00
TX-101	200W	SOUND	SLUDGE AND LIQUOR	110.00
TX-102	200W	SOUND	SALTCAKE AND LIQUOR	428.00
TX-103	200W	SOUND	SLUDGE AND LIQUOR	36.00
TX-104	200W	SOUND	SALTCAKE AND LIQUOR	297.00
TX-105	200W	QUESTIONABLE INTEGRITY	SALTCAKE AND LIQUOR	323.00
TX-106	200W	SOUND	SALTCAKE AND LIQUOR	108.00
TX-107	200W	QUESTIONABLE INTEGRITY	SALTCAKE AND LIQUOR	375.00
TX-108	200W	SOUND	SALTCAKE AND LIQUOR	173.00
TX-109	200W	SOUND	SALTCAKE AND LIQUOR	311.00
TX-110	200W	QUESTIONABLE INTEGRITY	SALTCAKE AND LIQUOR	167.00
TX-111	200W	SOUND	SALTCAKE AND LIQUOR	142.00
TX-112	200W	SOUND	SALTCAKE AND LIQUOR	367.00
TX-113	200W	QUESTIONABLE INTEGRITY	SALTCAKE AND LIQUOR	66.00
TX-114	200W	QUESTIONABLE INTEGRITY	SALTCAKE AND LIQUOR	18.00
TX-115	200W	QUESTIONABLE INTEGRITY	SALTCAKE AND LIQUOR	57.00
TX-116	200W	QUESTIONABLE INTEGRITY	SALTCAKE AND LIQUOR	0.00
TX-117	200W	QUESTIONABLE INTEGRITY	SALTCAKE AND LIQUOR	0.00
TX-118	200W	SOUND	SALTCAKE AND LIQUOR	1244.00
TY FARM	200W	INACTIVE	6, 758 KGAL TANKS	561.00
TY-101	200W	QUESTIONABLE INTEGRITY	SLUDGE AND LIQUOR	343.00
TY-102	200W	SOUND	SALTCAKE AND LIQUOR	11.00
TY-103	200W	LEAKER	SLUDGE AND LIQUOR	206.00
TY-104	200W	LEAKER	SLUDGE AND LIQUOR	0.00
TY-105	200W	LEAKER	SLUDGE AND LIQUOR	1.00
TY-106	200W	LEAKER	SLUDGE AND LIQUOR	0.00

*APPROXIMATION AFTER COMPLETION OF INTERIM WASTE MANAGEMENT PROGRAM

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PRELIMINARY DATA

Single Shell Tank Summary Data (cont.)

NAME	AREA	STATUS	DESCRIPTION	TRU CI*
U FARM	200W	INACTIVE	12, 532 AND 4, 55 KGAL TANKS	1657.00
U-101	200W	LEAKER	SLUDGE AND LIQUOR	183.00
U-102	200W	SOUND	SALTCAKE, LIQUOR AND SLUDGE	58.00
U-103	200W	SOUND	SALTCAKE, LIQUOR AND SLUDGE	5.00
U-104	200W	LEAKER	SLUDGE AND LIQUOR	38.00
U-105	200W	SOUND	SALTCAKE, LIQUOR AND SLUDGE	1.00
U-106	200W	SOUND	SALTCAKE, LIQUOR AND SLUDGE	0.00
U-107	200W	SOUND	SALTCAKE, LIQUOR AND SLUDGE	898.00
U-108	200W	SOUND	SALTCAKE, LIQUOR AND SLUDGE	31.00
U-109	200W	SOUND	SALTCAKE, LIQUOR AND SLUDGE	0.00
U-110	200W	LEAKER	SLUDGE AND LIQUOR	173.00
U-111	200W	SOUND	SALTCAKE, LIQUOR AND SLUDGE	76.00
U-112	200W	LEAKER	SLUDGE AND LIQUOR	194.00
U-201	200W	SOUND	SLUDGE AND LIQUOR	0.00
U-202	200W	SOUND	SLUDGE AND LIQUOR	0.00
U-203	200W	SOUND	SLUDGE AND LIQUOR	0.00
U-204	200W	SOUND	SLUDGE AND LIQUOR	0.00

PRELIMINARY DATA

*APPROXIMATION AFTER COMPLETION OF INTERIM WASTE MANAGEMENT PROGRAM

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SECTION A - SINGLE-SHELL AND DOUBLE-SHELL TANK SUMMARY
SECTION B - SINGLE-SHELL TANK SUMMARY DATA
SECTION C - SINGLE-SHELL TANK SPECIFIC DATA
SECTION D - SINGLE-SHELL TANK SAMPLING PLAN
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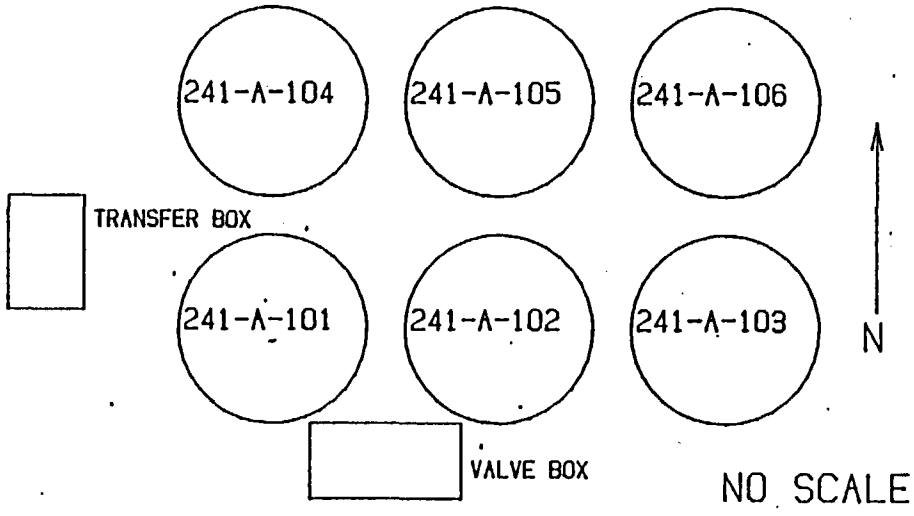
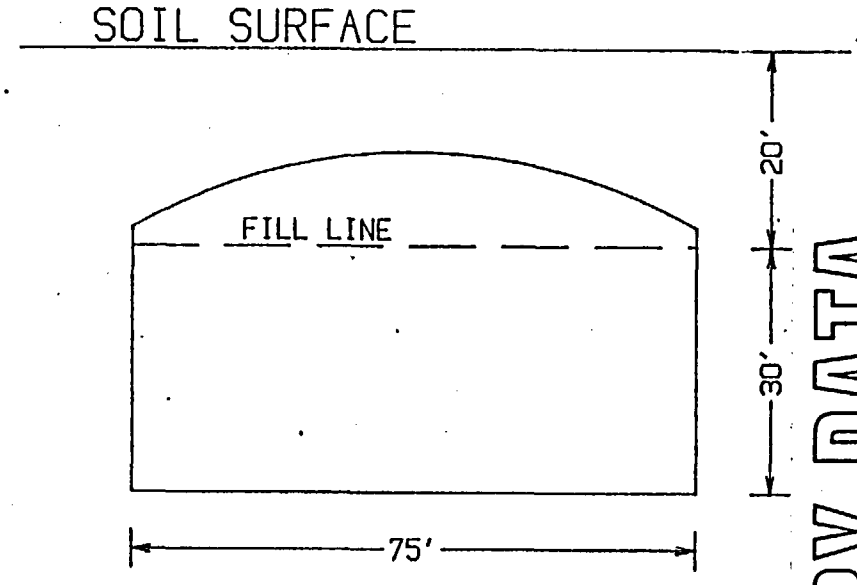
SECTION F - DOUBLE-SHELL TANK SUMMARY DATA
SECTION G - DOUBLE-SHELL TANK SPECIFIC DATA
SECTION H - CAPSULE SUMMARY DATA (B PLANT)
SECTION I - TRANSURANICS (TRU) SITE SUMMARY
SECTION J - SOLID TRU WASTE SITE SPECIFIC DATA
SECTION K - LIQUID TRU WASTE SITE SPECIFIC DATA
SECTION L - LIQUID TRU WASTE SITE PLUME DATA
SECTION M - ENGINEERED BARRIER TEST

241- A TANK FARM SUMMARY



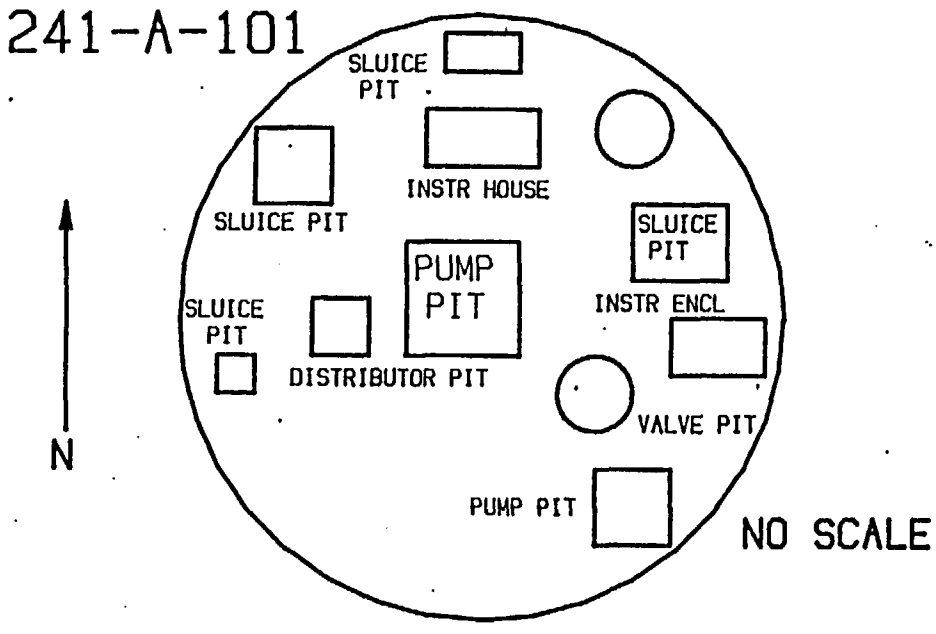


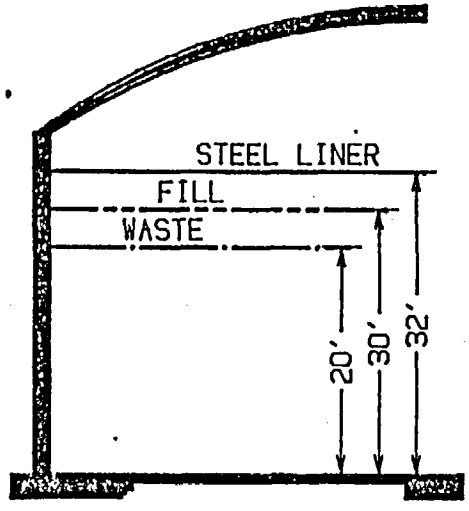
PRELIMINARY DATA

TANK NAME	FILL FRACTION	COMPLEXANT MOLES	HEAT GENERATION BTU/hr	TRU Ci	TRU NCi/g
A-101	0.67	0	0	3537	933
A-102	0.06	23656	88917	2539	7015
A-103	0.37	1042	4337	208	98
A-104	0.02	0	495	5	32
A-105	0.01	0	11365	0	4
A-106	0.13	0	0	2522	3377

PRE-DISPOSAL TANK STATE APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

A-101 TANK DETAILED DESCRIPTION





DESCRIPTION: 1000-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 67% FULL DUE TO WASTE TRANSFERS SINCE 1956.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SALTCAKE, SLUDGE AND LIQUOR.

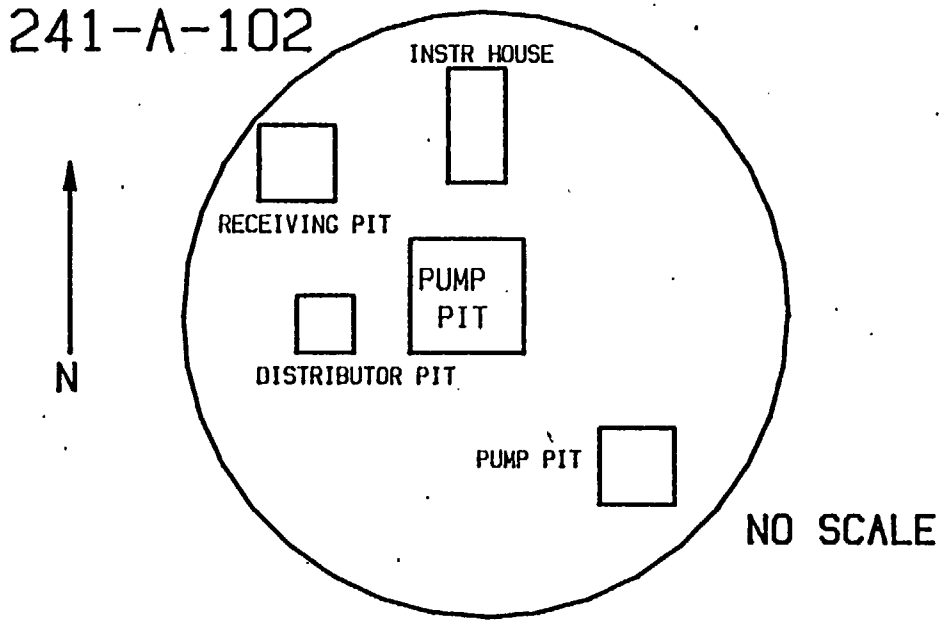
VOLUME :	670 KGALS
TRU :	3537 Ci
Sr90 :	0 Ci
Cs137 :	0 Ci
Tc99 :	0 Ci
Pu241 :	9820 Ci

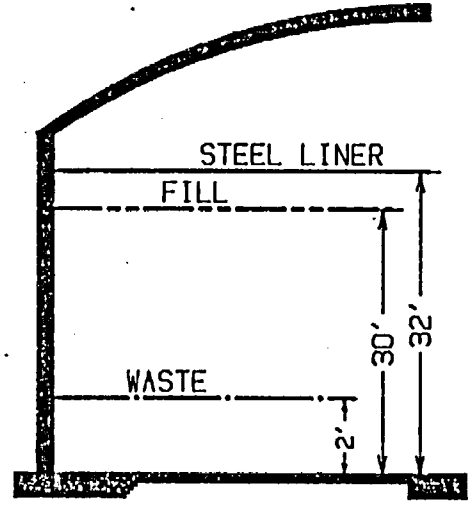
PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

EPA TOUR BOOK
Sec.C, Pg. 2

PRELIMINARY DATA

A-102 TANK DETAILED DESCRIPTION





DESCRIPTION: 1000-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 6% FULL DUE TO WASTE TRANSFERS SINCE 1956.
THE WASTE WILL BE A HIGH HEAT, COMPLEXED MIXTURE OF SALTCAKE, SLUDGE AND LIQUOR.

VOLUME :	67 KGALS
TRU :	2539 Ci
Sr90 :	2649253 Ci
Cs137 :	1641791 Ci
Tc99 :	1141 Ci
Pu241 :	0 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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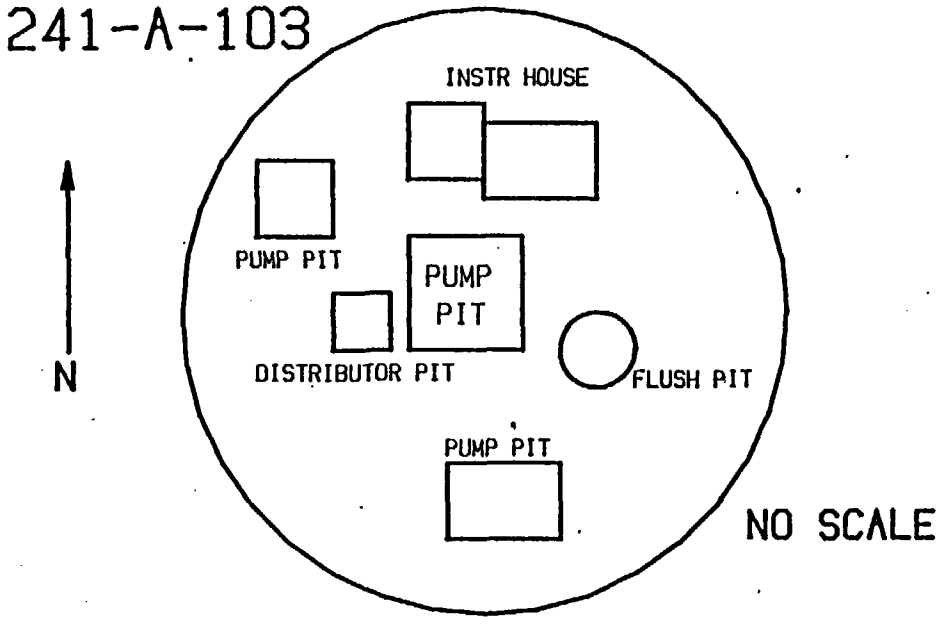
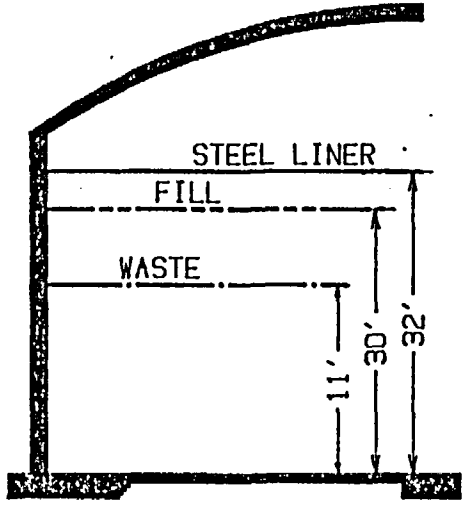
PRELIMINARY DATA

A-103 TANK DETAILED DESCRIPTION





DESCRIPTION: 1000-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 37% FULL DUE TO WASTE TRANSFERS SINCE 1956.
THE WASTE WILL BE A LOW HEAT, COMPLEXED MIXTURE OF SALTCAKE, SLUDGE AND LIQUOR.

VOLUME :	375 KGALS
TRU :	208 Ci
Sr90 :	112000 Ci
Cs137 :	104666 Ci
Tc99 :	89 Ci
Pu241 :	0 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

EPA TOUR BOOK
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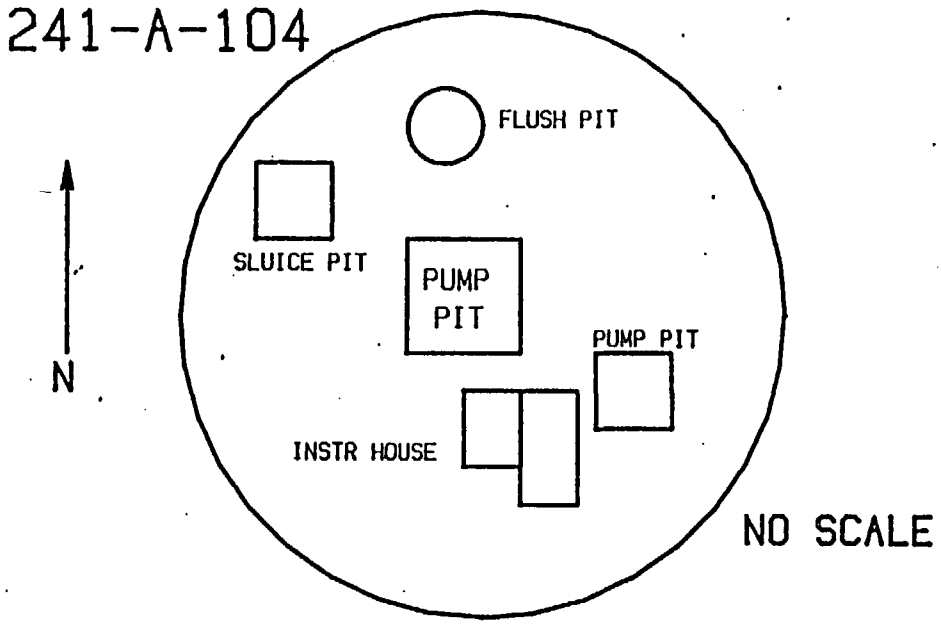
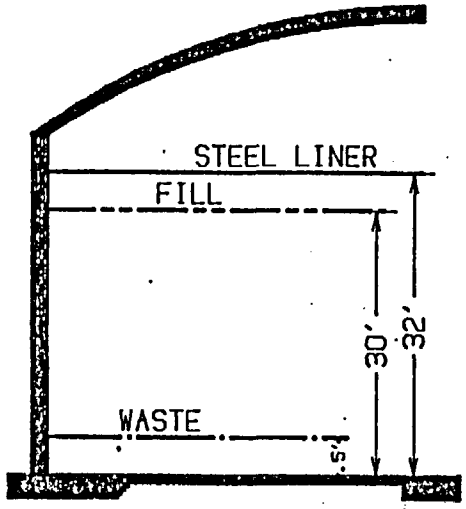
PRELIMINARY DATA

A-104 TANK DETAILED DESCRIPTION





DESCRIPTION: 1000-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 2% FULL DUE TO WASTE TRANSFERS SINCE 1958.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED SLUDGE.

VOLUME :	28 KGALS
TRU :	5 Ci
Sr90 :	2380 Ci
Cs137 :	26800 Ci
Tc99 :	8 Ci
Pu241 :	0 Ci

DISPOSAL PLAN: FILL, BARRIER

DISPOSAL SCHEDULE: TECHNICAL - HIGH (CURRENT TECHNOLOGY)
SAFETY - LOW (LOW SR90, NON TRU)

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

EPA TOUR BOOK
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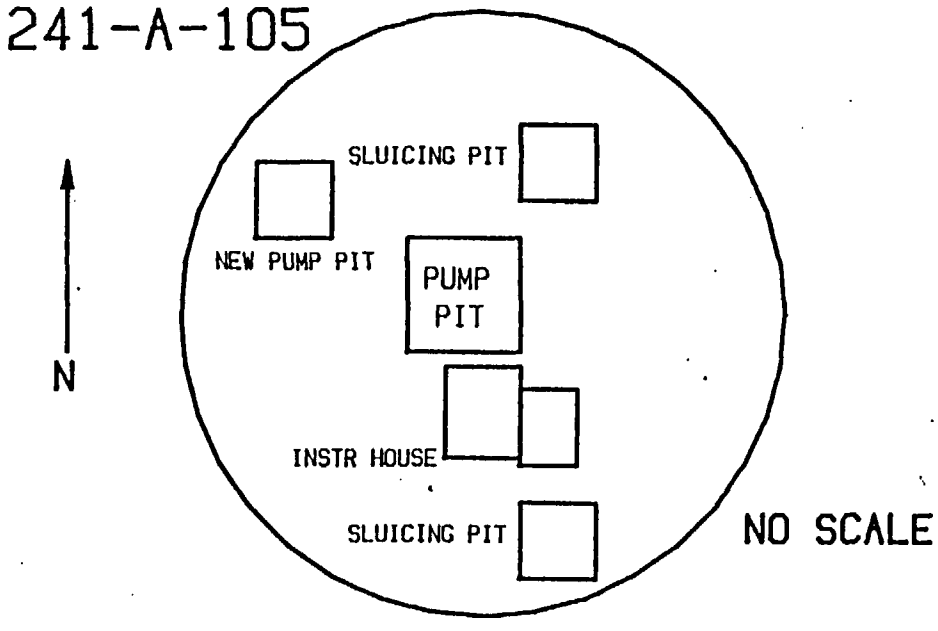
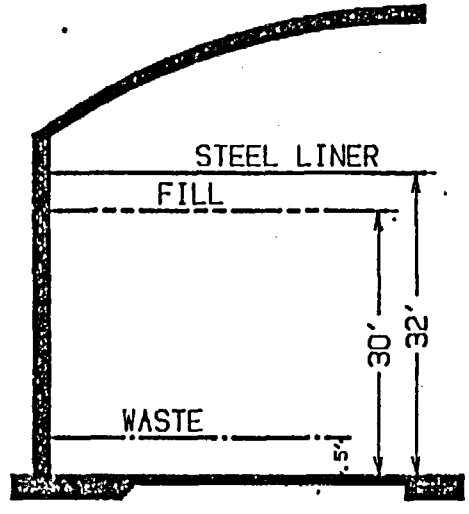
PRELIMINARY DATA

A-105 TANK DETAILED DESCRIPTION





DESCRIPTION: 1000-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 1% FULL DUE TO WASTE TRANSFERS SINCE 1962.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED SLUDGE.

VOLUME :	19 KGALS
TRU :	0 Ci
Sr90 :	0 Ci
Cs137 :	693000 Ci
Tc99 :	151 Ci
Pu241 :	0 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

EPA TOUR BOOK
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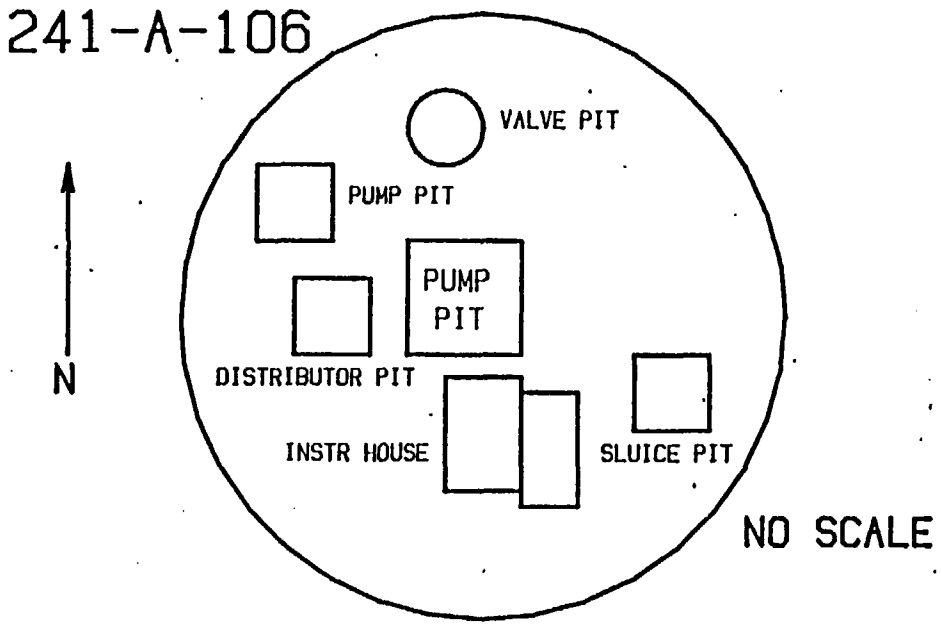
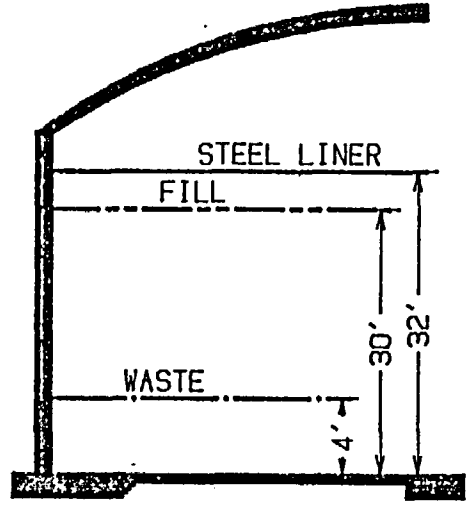
PRELIMINARY DATA

A-106 TANK DETAILED DESCRIPTION





DESCRIPTION: 1000-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 13% FULL DUE TO WASTE TRANSFERS SINCE 1957.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SLUDGE AND LIQUOR.

VOLUME :	132 KGALS
TRU :	2522 Ci
Sr90 :	0 Ci
Cs137 :	0 Ci
Tc99 :	0 Ci
Pu241 :	7200 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

EPA TOUR BOOK
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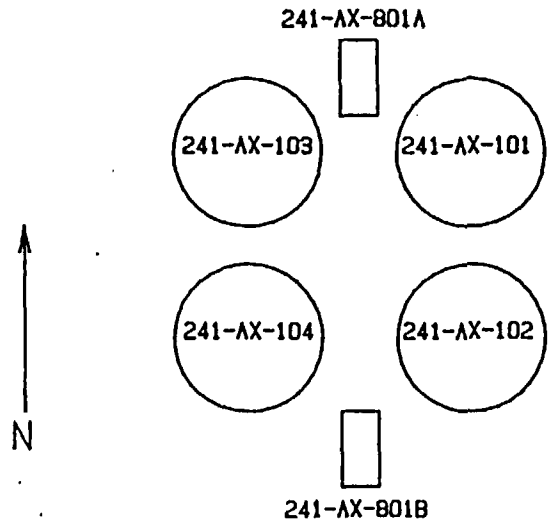
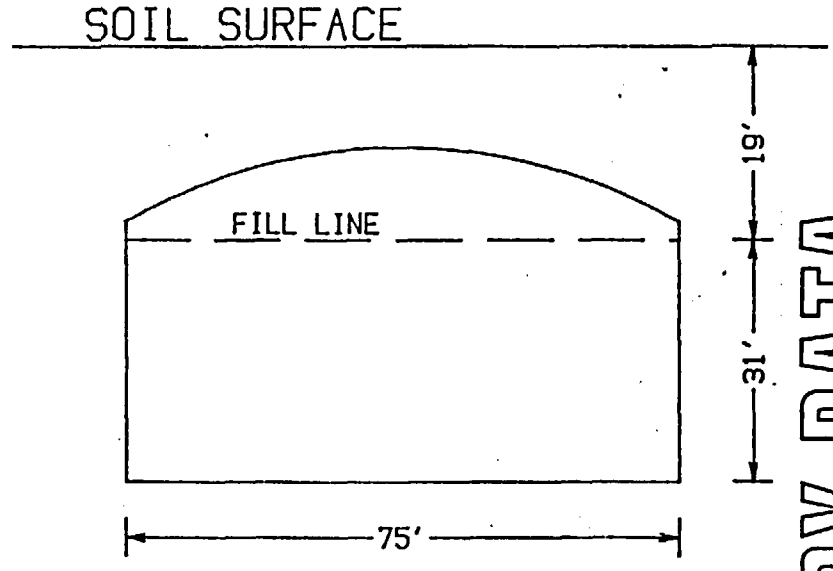
PRELIMINARY DATA

241- AX TANK FARM SUMMARY



NO SCALE

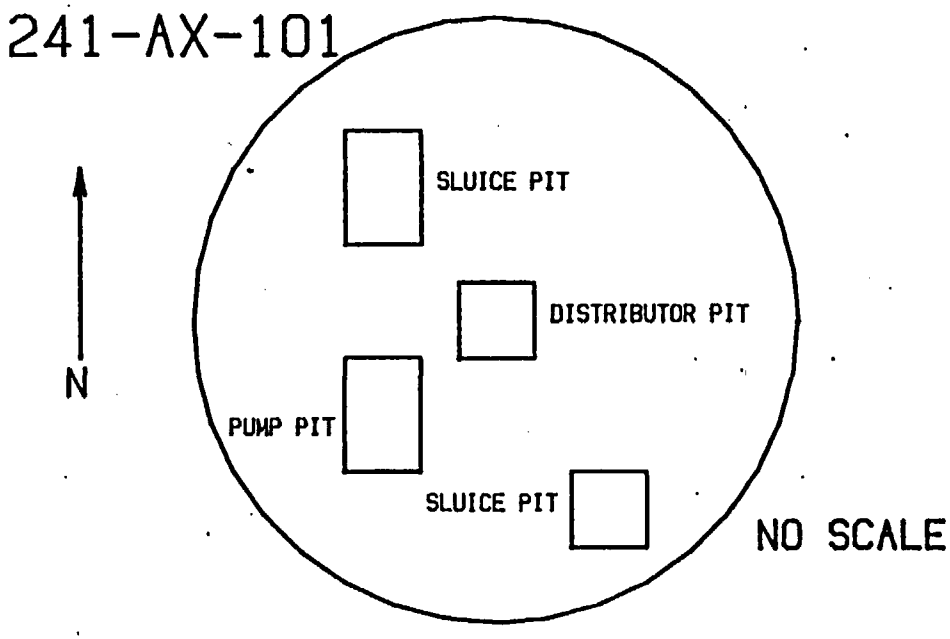


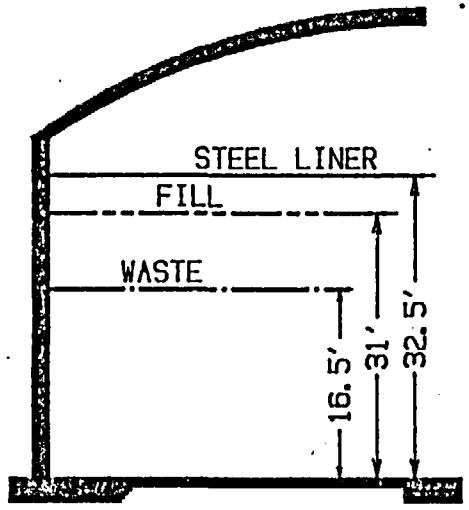
TANK NAME	FILL FRACTION	COMPLEXANT MOLES	HEAT GENERATION BTU/hr	TRU Ci	TRU NCi/g
AX-101	0.53	0	0	0	0
AX-102	0.04	0	0	0	0
AX-103	0.11	445	735	18	28
AX-104	0.00	1	268213	524	13185

PRELIMINARY DATA

PRE-DISPOSAL TANK STATE APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

AX-101 TANK DETAILED DESCRIPTION





DESCRIPTION: 1000-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 53% FULL DUE TO WASTE TRANSFERS SINCE 1965.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SALTCAKE, SLUDGE AND LIQUOR.

VOLUME :	537 KGALS
TRU :	0 Ci
Sr90 :	0 Ci
Cs137 :	0 Ci
Tc99 :	0 Ci
Pu241 :	0 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

EPA TOUR BOOK
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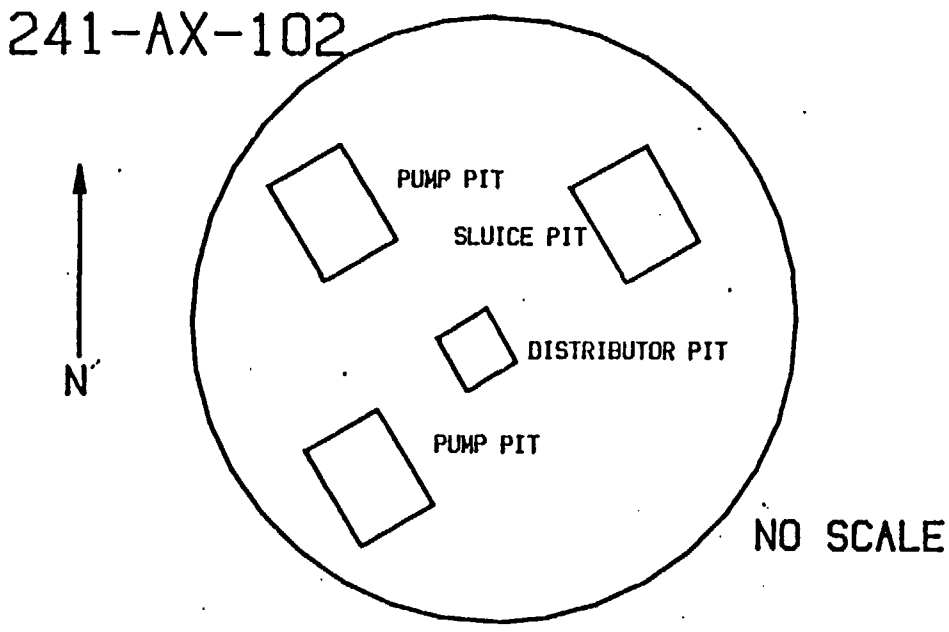
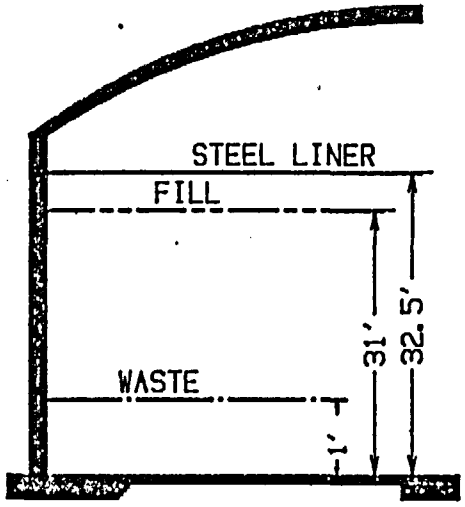
PRELIMINARY DATA

AX-102 TANK DETAILED DESCRIPTION





DESCRIPTION: 1000-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 4% FULL DUE TO WASTE TRANSFERS SINCE 1966.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SALTCAKE, SLUDGE AND LIQUOR.

VOLUME :	45 KGALS
TRU :	0 Ci
Sr90 :	0 Ci
Cs137 :	0 Ci
Tc99 :	0 Ci
Pu241 :	0 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

EPA TOUR BOOK
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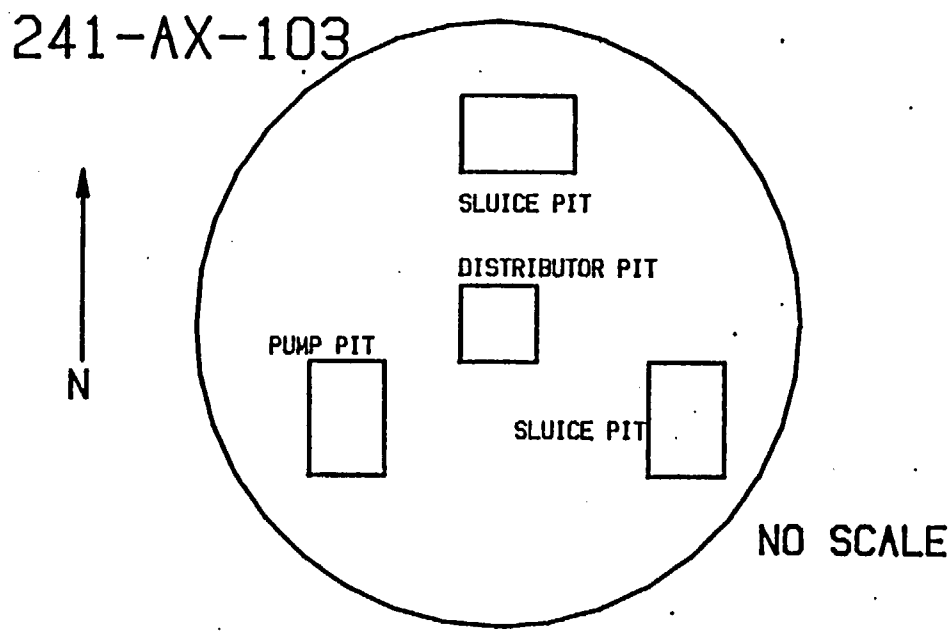
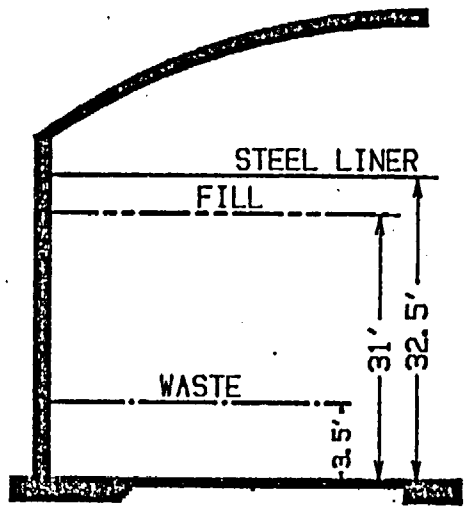
PRELIMINARY DATA

AX-103 TANK DETAILED DESCRIPTION





DESCRIPTION: 1000-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 11% FULL DUE TO WASTE TRANSFERS SINCE 1965.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SALTCAKE, SLUDGE AND LIQUOR.

VOLUME :	116 KGALS
TRU :	18 Ci
Sr90 :	10600 Ci
Cs137 :	29700 Ci
Tc99 :	18 Ci
Pu241 :	0 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

EPA TOUR BOOK
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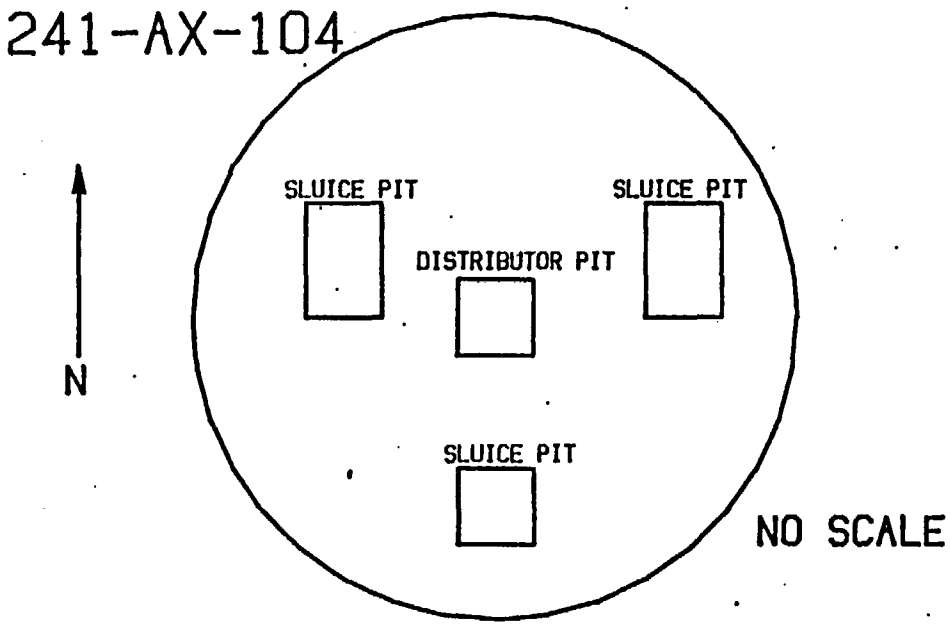
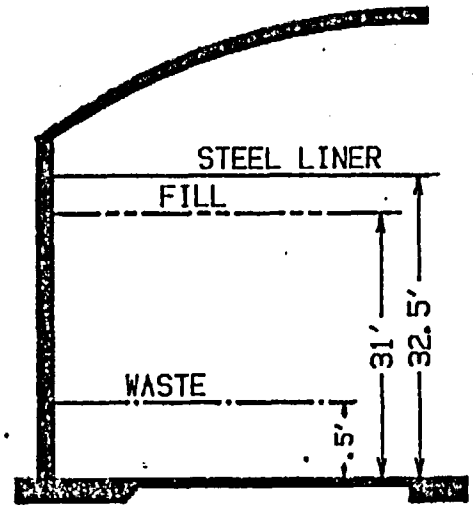
PRELIMINARY DATA

AX-104 TANK DETAILED DESCRIPTION





DESCRIPTION: 1000-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE <1 % FULL DUE TO WASTE TRANSFERS SINCE 1966.
THE WASTE WILL BE A HIGH HEAT, NON-COMPLEXED SLUDGE.

VOLUME :	7 KGALS
TRU :	524 Ci
Sr90 :	11200000 Ci
Cs137 :	374000 Ci
Tc99 :	98 Ci
Pu241 :	1990 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

PRELIMINARY DATA

EPA TOUR BOOK
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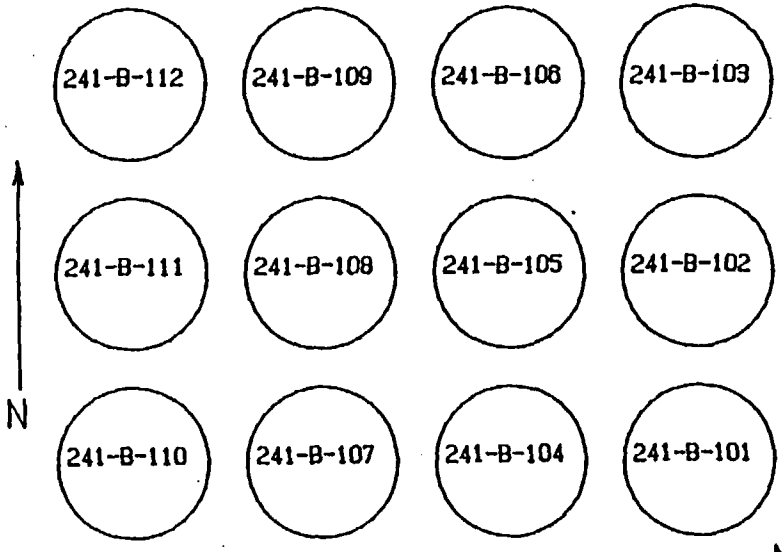
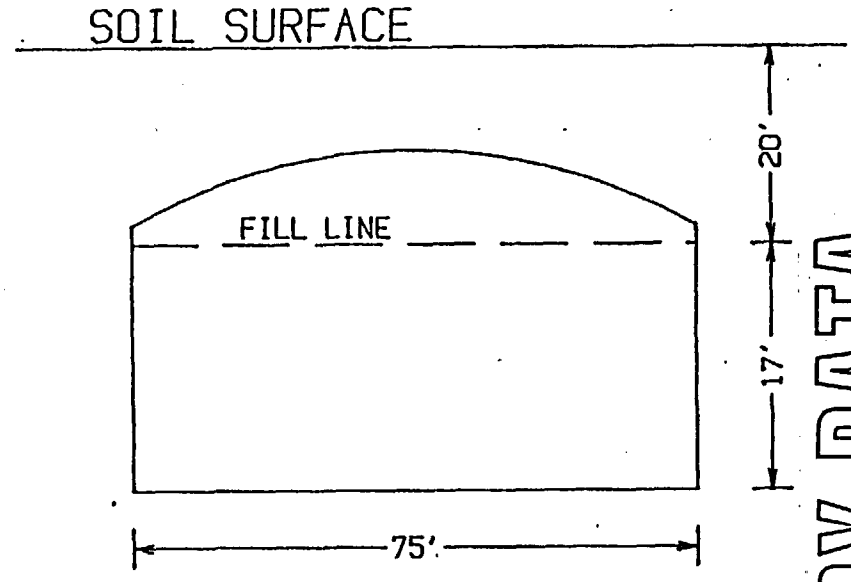
241- B TANK FARM SUMMARY



NO SCALE

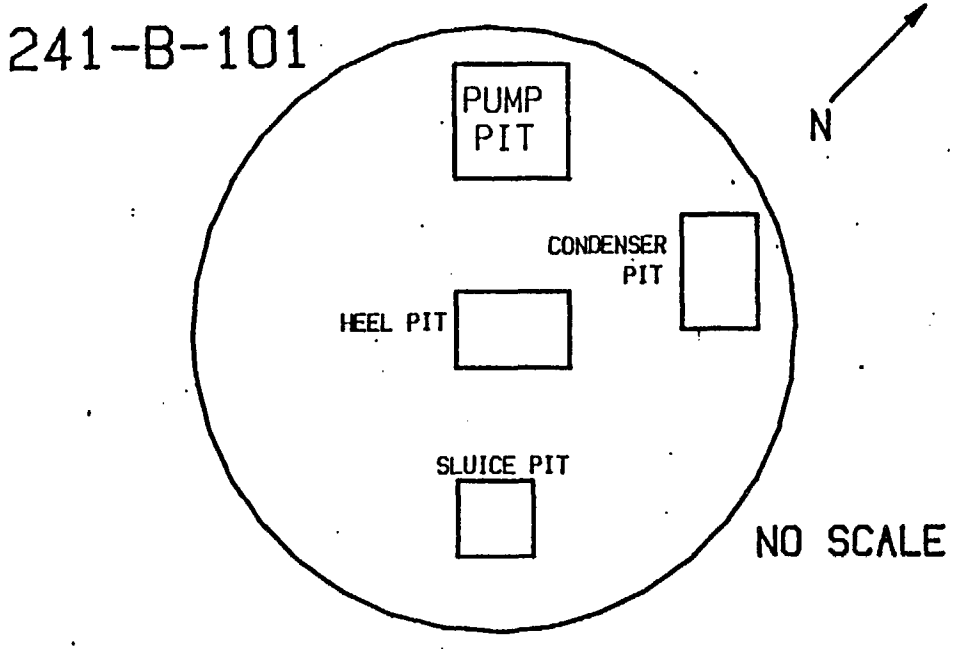


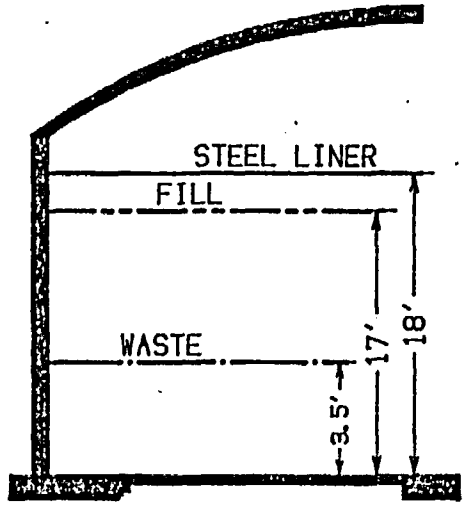
PRELIMINARY DATA

TANK NAME	FILL FRACTION	COMPLEXANT MOLES	HEAT GENERATION BTU/hr	TRU Ci	TRU NCi/g
B-101	0.22	0	1155	831	1234
B-102	0.08	0	2843	21	88
B-103	0.17	951	3027	326	646
B-104	0.77	0	124	94	40
B-105	0.47	0	423	23	16
B-106	0.27	0	81	1	1
B-107	0.34	0	1216	70	68
B-108	0.17	20	2058	71	136
B-109	0.23	138	3419	143	208
B-110	0.50	0	19	169	111
B-111	0.51	0	0	1	1
B-112	0.08	24	5652	97	401
B-201	0.58	0	0	0	0
B-202	0.54	0	0	277	1638
B-203	1.03	0	0	0	0
B-204	1.01	0	0	5	17

PRE-DISPOSAL TANK STATE APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

B-101 TANK DETAILED DESCRIPTION





DESCRIPTION: 532-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 22% FULL DUE TO WASTE TRANSFERS SINCE 1945. THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SLUDGE AND LIQUOR.

VOLUME :	119 KGALS
TRU :	831 Ci
Sr90 :	49400 Ci
Cs137 :	0 Ci
Tc99 :	0 Ci
Pu241 :	4610 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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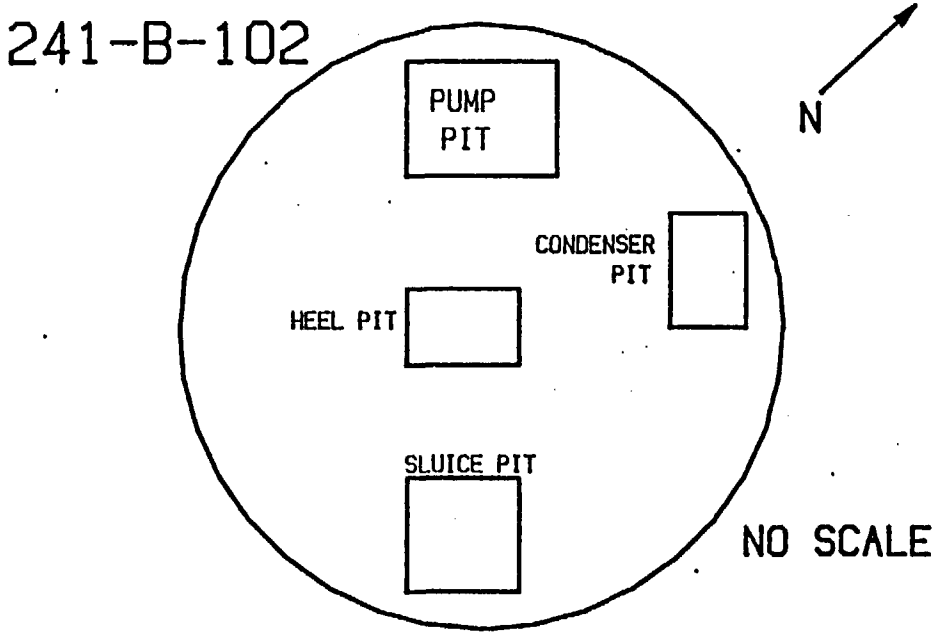
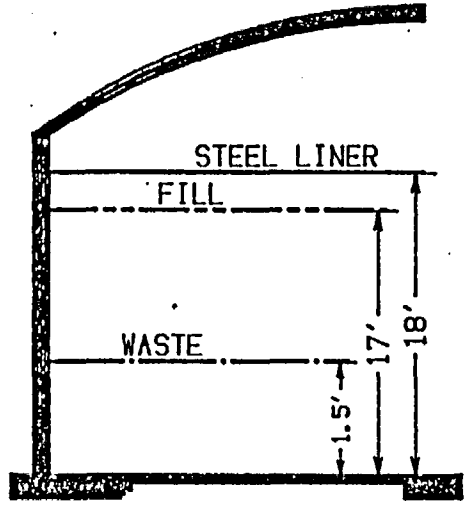
PRELIMINARY DATA

B-102 TANK DETAILED DESCRIPTION





DESCRIPTION: 532-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 8% FULL DUE TO WASTE TRANSFERS SINCE 1945. THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SALTCAKE, SLUDGE AND LIQUOR.

VOLUME :	44 KGALS
TRU :	21 Ci
Sr90 :	119000 Ci
Cs137 :	3610 Ci
Tc99 :	33 Ci
Pu241 :	21 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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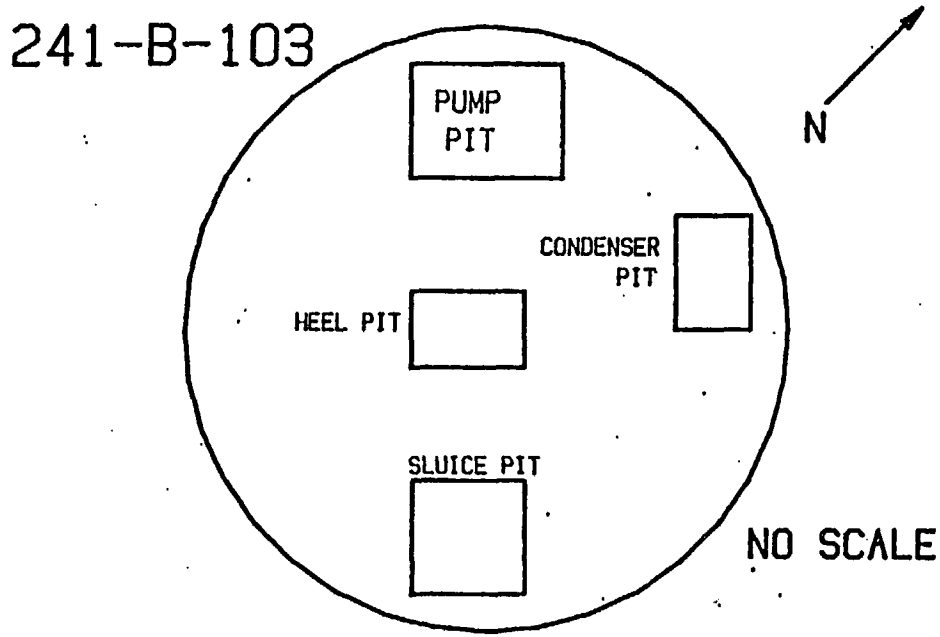
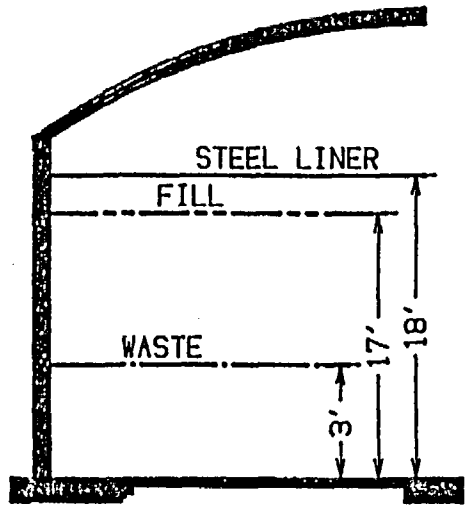
PRELIMINARY DATA

B-103 TANK DETAILED DESCRIPTION





DESCRIPTION: 532-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 17% FULL DUE TO WASTE TRANSFERS SINCE 1953. THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SALTCAKE AND LIQUOR.

VOLUME :	92 KGALS
TRU :	326 Ci
Sr90 :	119000 Ci
Cs137 :	14800 Ci
Tc99 :	34 Ci
Pu241 :	894 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

EPA TOUR BOOK
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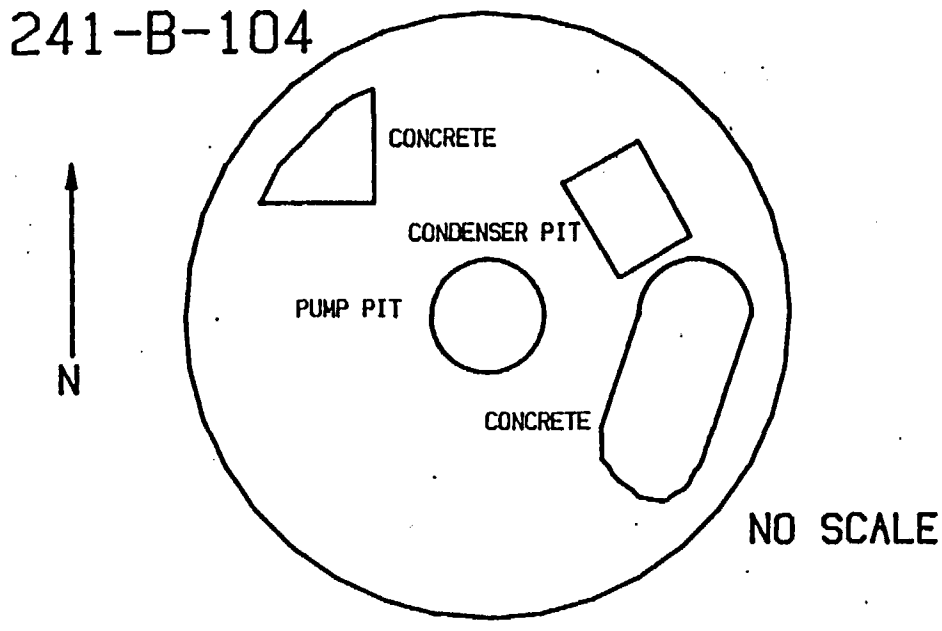
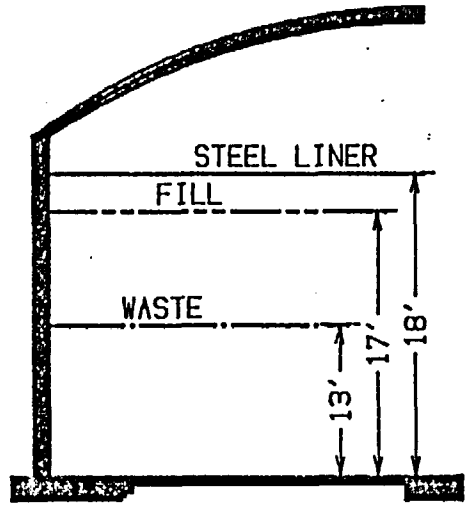
PRELIMINARY DATA

B-104 TANK DETAILED DESCRIPTION





DESCRIPTION: 532-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 77% FULL DUE TO WASTE TRANSFERS SINCE 1946.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SALTCAKE, SLUDGE AND LIQUOR.

VOLUME :	412 KGALS
TRU :	94 Ci
Sr90 :	3302 Ci
Cs137 :	2887 Ci
Tc99 :	0 Ci
Pu241 :	25 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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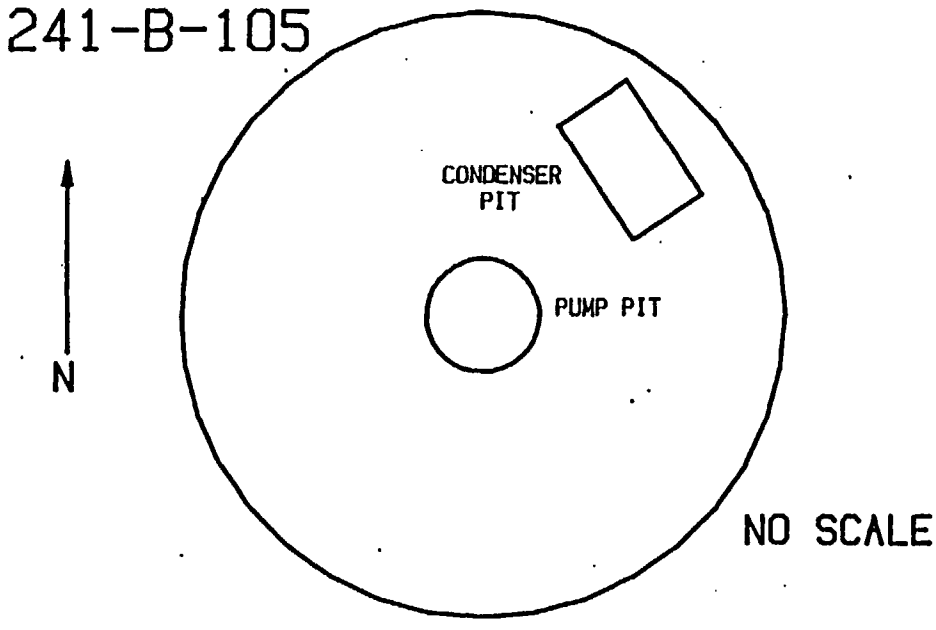
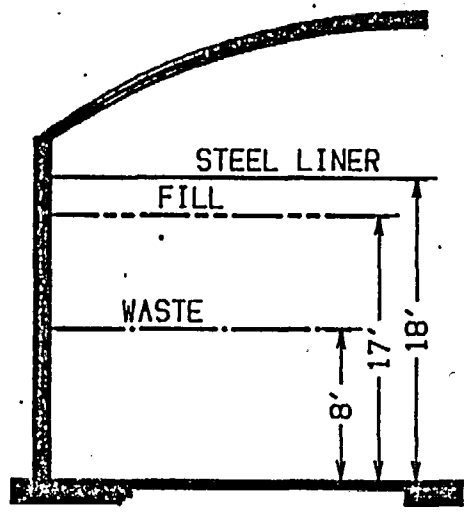
PRELIMINARY DATA

B-105 TANK DETAILED DESCRIPTION





DESCRIPTION: 532-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 47% FULL DUE TO WASTE TRANSFERS SINCE 1947. THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SALTCAKE, SLUDGE AND LIQUOR.

VOLUME :	254 KGALS
TRU :	23 Ci
Sr90 :	89 Ci
Cs137 :	25707 Ci
Tc99 :	7 Ci
Pu241 :	11 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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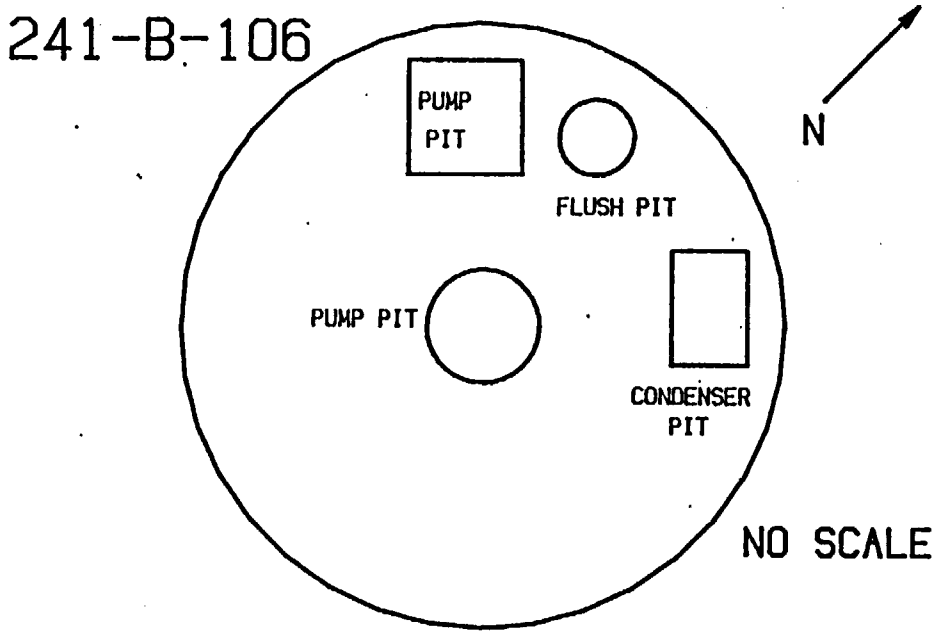
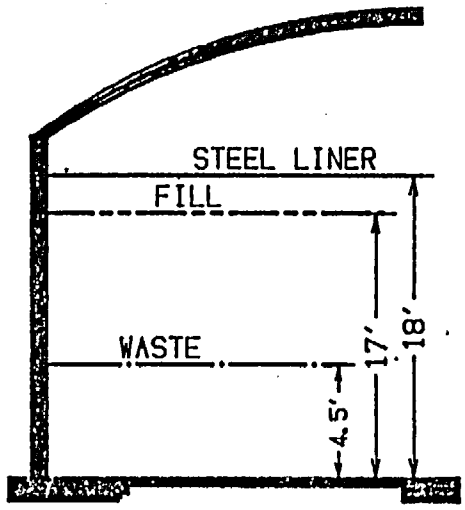
PRELIMINARY DATA

B-106 TANK DETAILED DESCRIPTION





DESCRIPTION: 532-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 27% FULL DUE TO WASTE TRANSFERS SINCE 1948.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SLUDGE AND LIQUOR.

VOLUME :	146 KGALS
TRU :	1 Ci
Sr90 :	244 Ci
Cs137 :	4640 Ci
Tc99 :	3 Ci
Pu241 :	0 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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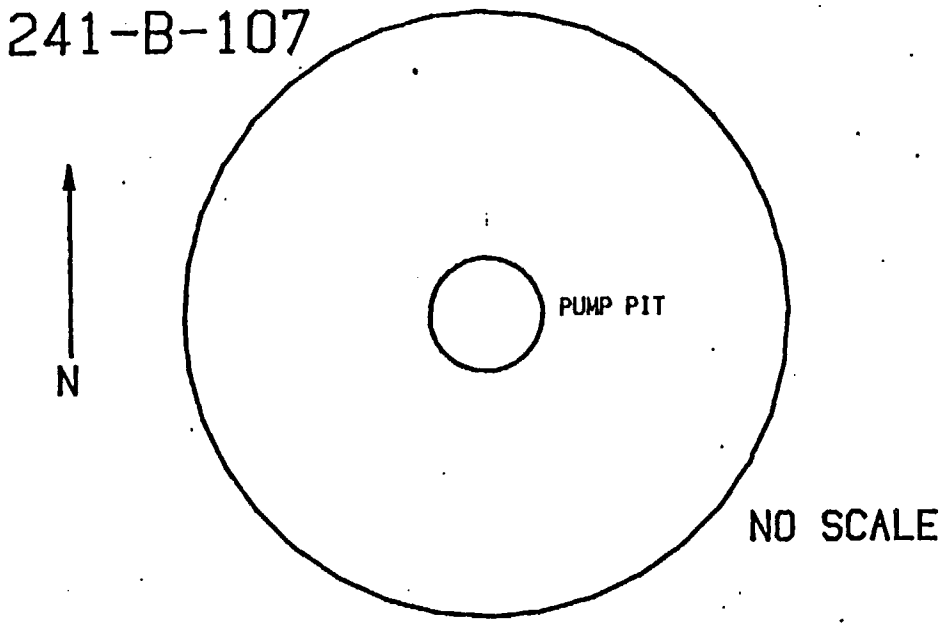
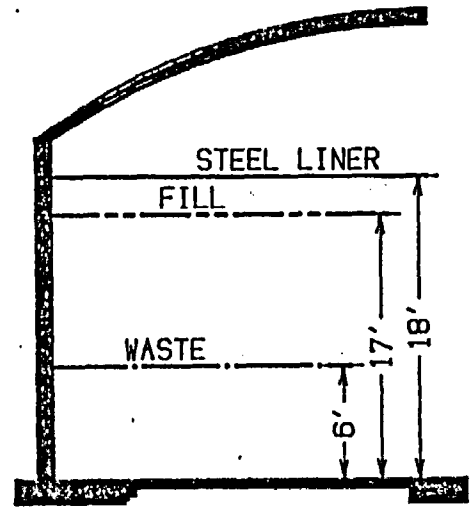
PRELIMINARY DATA

B-107 TANK DETAILED DESCRIPTION





DESCRIPTION: 532-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 34% FULL DUE TO WASTE TRANSFERS SINCE 1945.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXJURE OF SLUDGE AND LIQUOR.

VOLUME :	183 KGALS
TRU :	70 Ci
Sr90 :	33900 Ci
Cs137 :	25800 Ci
Tc99 :	6 Ci
Pu241 :	112 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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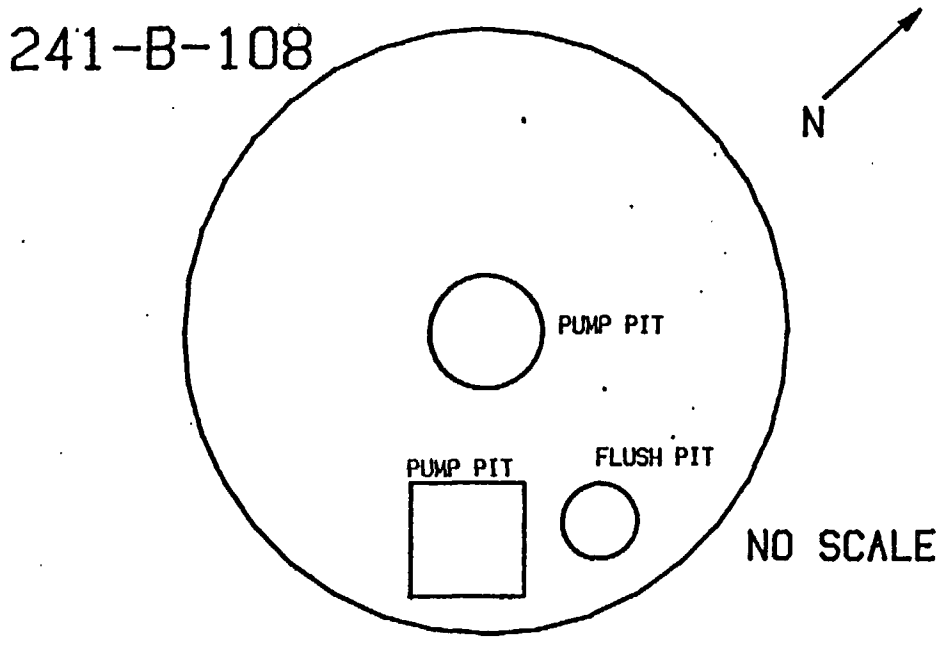
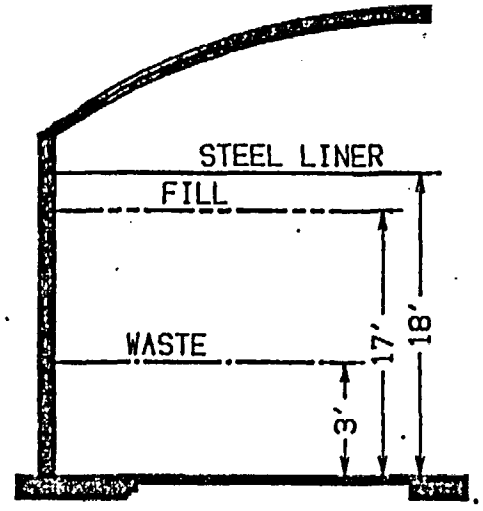
Sec.C, Pg. 20

PRELIMINARY DATA

B-108 TANK DETAILED DESCRIPTION





DESCRIPTION: 532-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 17% FULL DUE TO WASTE TRANSFERS SINCE 1945.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SALTCAKE AND LIQUOR.

VOLUME :	95 KGALS
TRU :	71 Ci
Sr90 :	25100 Ci
Cs137 :	89700 Ci
Tc99 :	227 Ci
Pu241 :	164 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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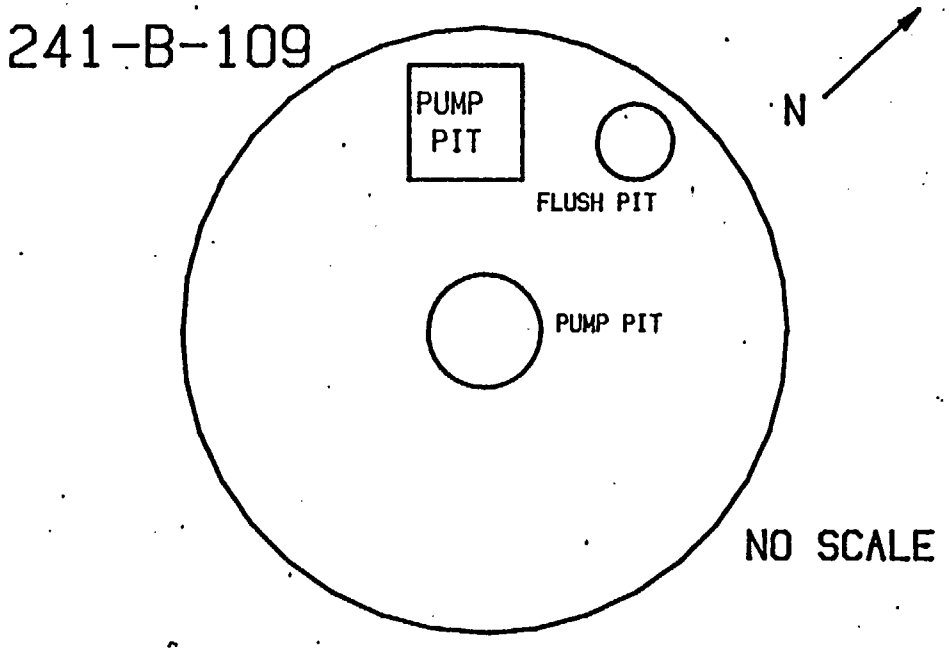
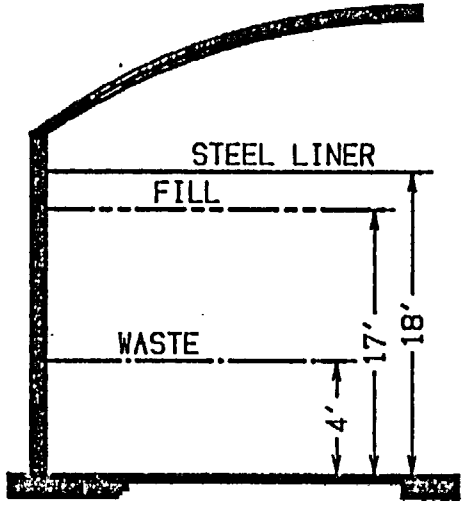
PRELIMINARY DATA

B-109 TANK DETAILED DESCRIPTION





DESCRIPTION: 532-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 23% FULL DUE TO WASTE TRANSFERS SINCE 1953.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SALTCAKE AND LIQUOR.

VOLUME :	125 KGALS
TRU :	143 Ci
Sr90 :	112000 Ci
Cs137 :	48700 Ci
Tc99 :	120 Ci
Pu241 :	182 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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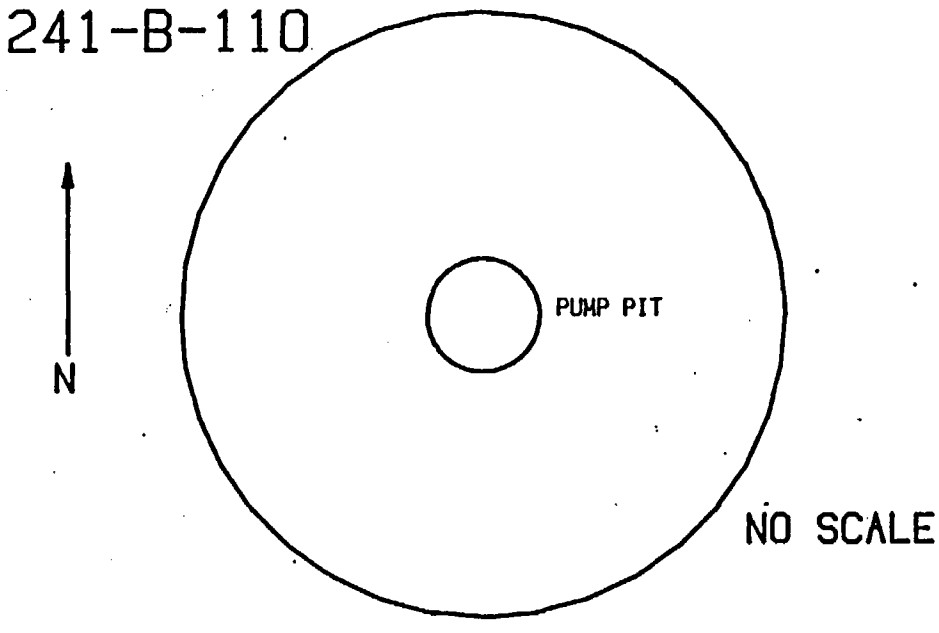
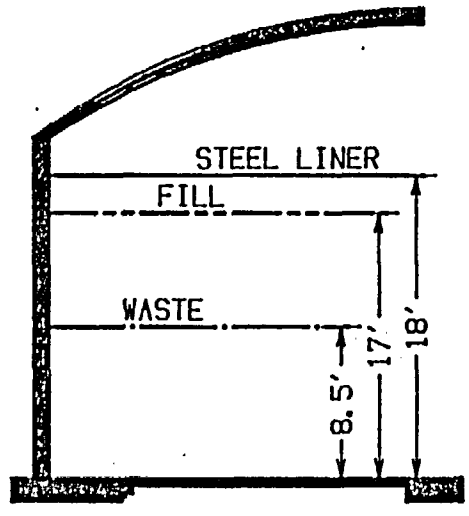
PRELIMINARY DATA

B-110 TANK DETAILED DESCRIPTION





DESCRIPTION: 532-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 50% FULL DUE TO WASTE TRANSFERS SINCE 1945.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SLUDGE AND LIQUOR.

VOLUME :	270 KGALS
TRU :	169 Ci
Sr90 :	847 Ci
Cs137 :	0 Ci
Tc99 :	0 Ci
Pu241 :	890 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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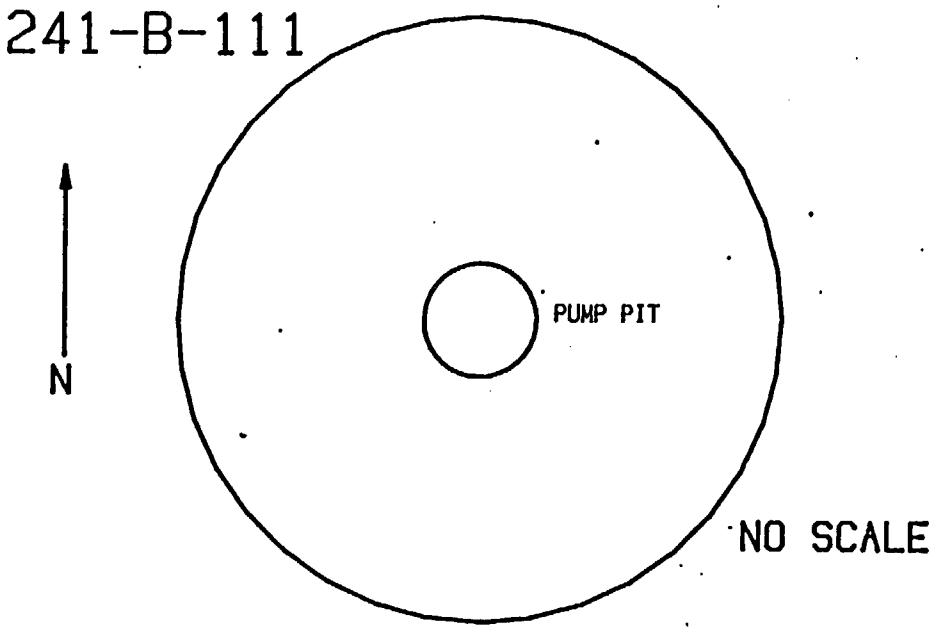
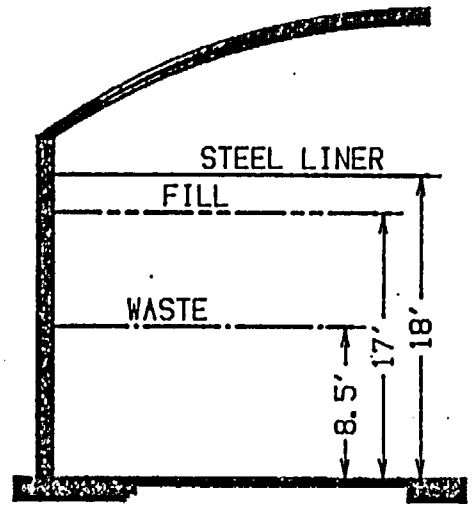
PRELIMINARY DATA

B-111 TANK DETAILED DESCRIPTION





DESCRIPTION: 532-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 51% FULL DUE TO WASTE TRANSFERS SINCE 1945.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SLUDGE AND LIQUOR.

VOLUME :	272 KGALS
TRU :	1 Ci
Sr90 :	0 Ci
Cs137 :	0 Ci
Tc99 :	0 Ci
Pu241 :	1 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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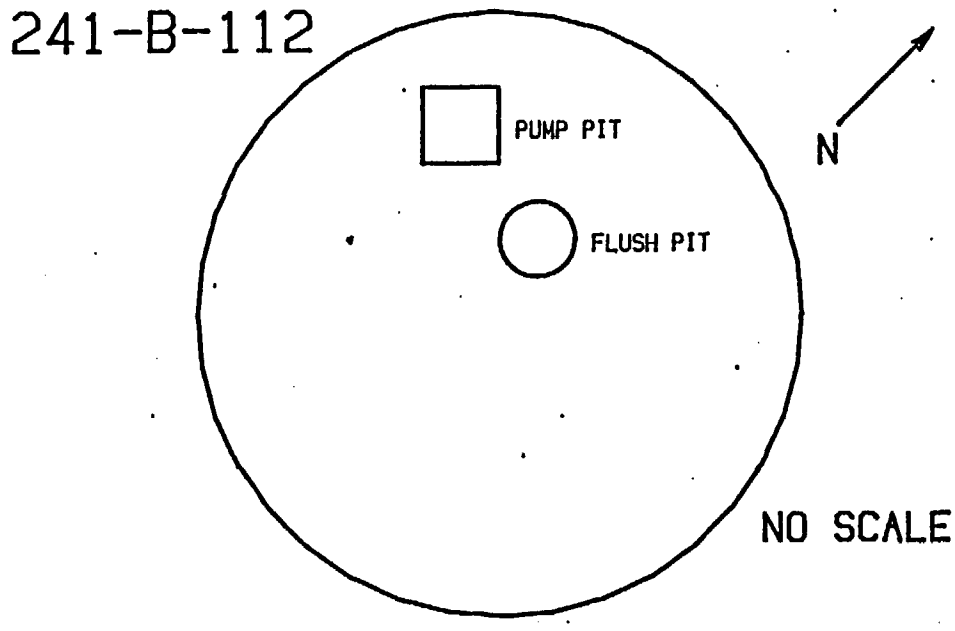
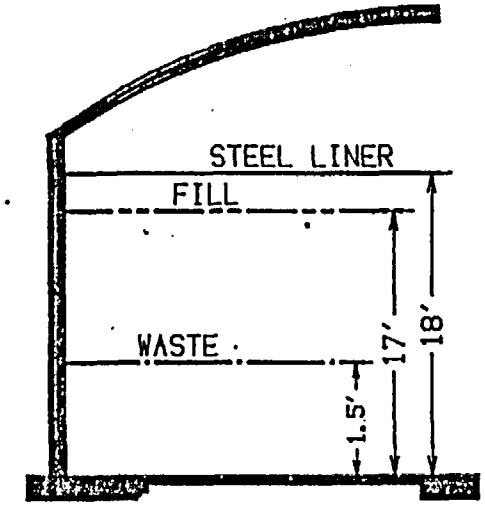
PRELIMINARY DATA

B-112 TANK DETAILED DESCRIPTION





DESCRIPTION: 532-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE. 8% FULL DUE TO WASTE TRANSFERS SINCE 1948.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SLUDGE AND LIQUOR.

VOLUME :	43 KGALS
TRU :	97 Ci
Sr90 :	6780 Ci
Cs137 :	335000 Ci
Tc99 :	327 Ci
Pu241 :	0 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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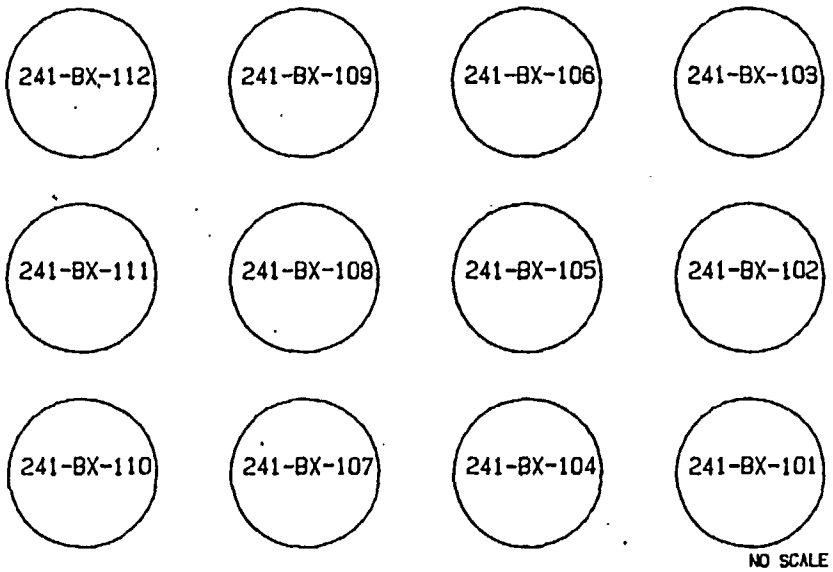
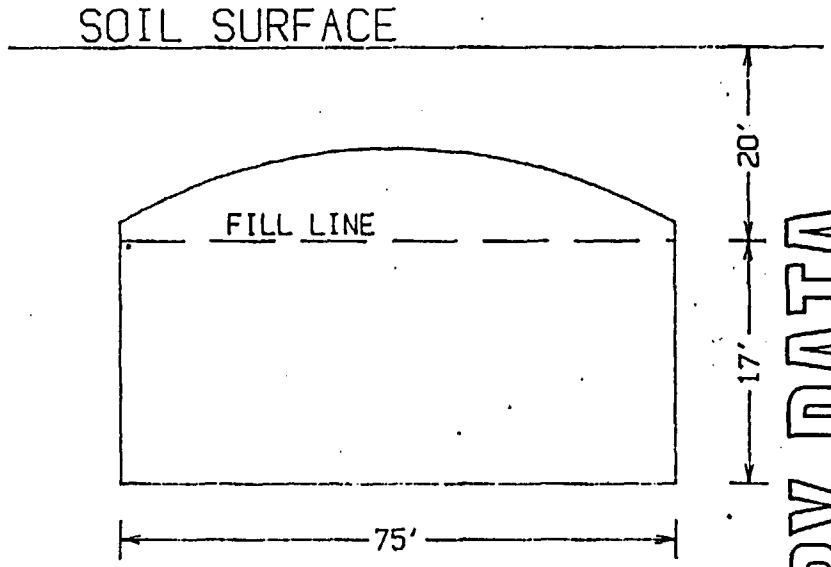
PRELIMINARY DATA

241— BX TANK FARM SUMMARY



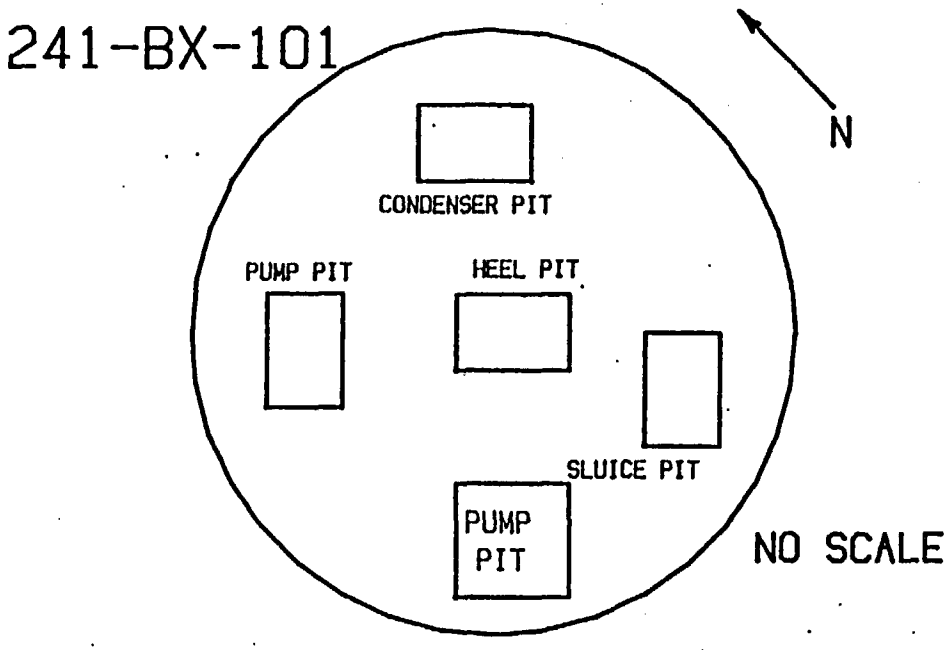


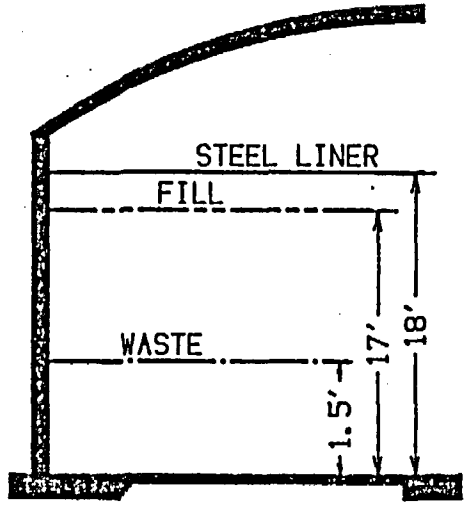
TANK NAME	FILL FRACTION	COMPLEXANT MOLES	HEAT GENERATION BTU/hr	TRU Ci	TRU NCi/g
BX-101	0.08	0	3299	787	3229
BX-102	0.18	0	1773	1	1
BX-103	0.11	0	794	36	103
BX-104	0.21	24	5474	119	182
BX-105	0.15	56	675	8	18
BX-106	0.07	24	4400	67	294
BX-107	0.76	33	1875	45	20
BX-108	0.04	6	271	3	23
BX-109	0.41	18	2153	1	1
BX-110	0.40	35	8483	158	130
BX-111	0.39	25	6107	105	89
BX-112	0.34	0	113	0	0

PRELIMINARY DATA

PRE-DISPOSAL TANK STATE APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

BX-101 TANK DETAILED DESCRIPTION





DESCRIPTION: 532-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 8% FULL DUE TO WASTE TRANSFERS SINCE 1948.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SLUDGE AND LIQUOR.

VOLUME :	43 KGALS
TRU :	787 Ci
Sr90 :	141000 Ci
Cs137 :	0 Ci
Tc99 :	0 Ci
Pu241 :	4300 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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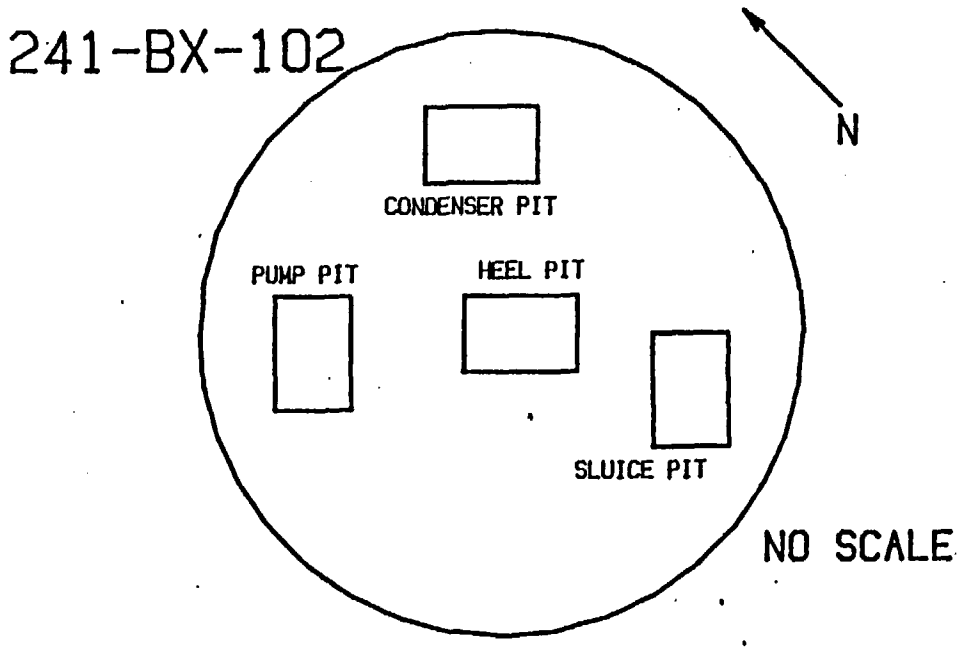
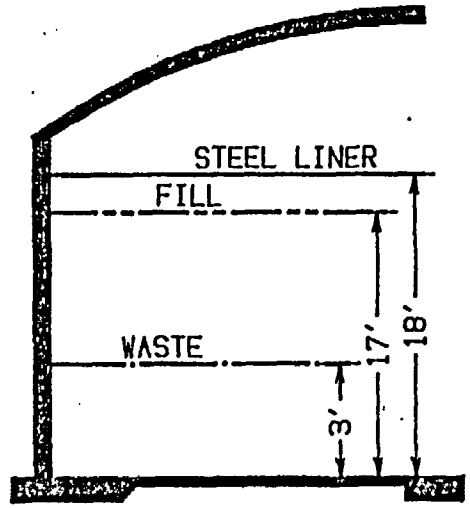
PRELIMINARY DATA

BX-102 TANK DETAILED DESCRIPTION





DESCRIPTION: 532-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 18% FULL DUE TO WASTE TRANSFERS SINCE 1948. THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SLUDGE AND LIQUOR.

VOLUME :	100 KGALS
TRU :	1 Ci
Sr90 :	75800 Ci
Cs137 :	0 Ci
Tc99 :	0 Ci
Pu241 :	0 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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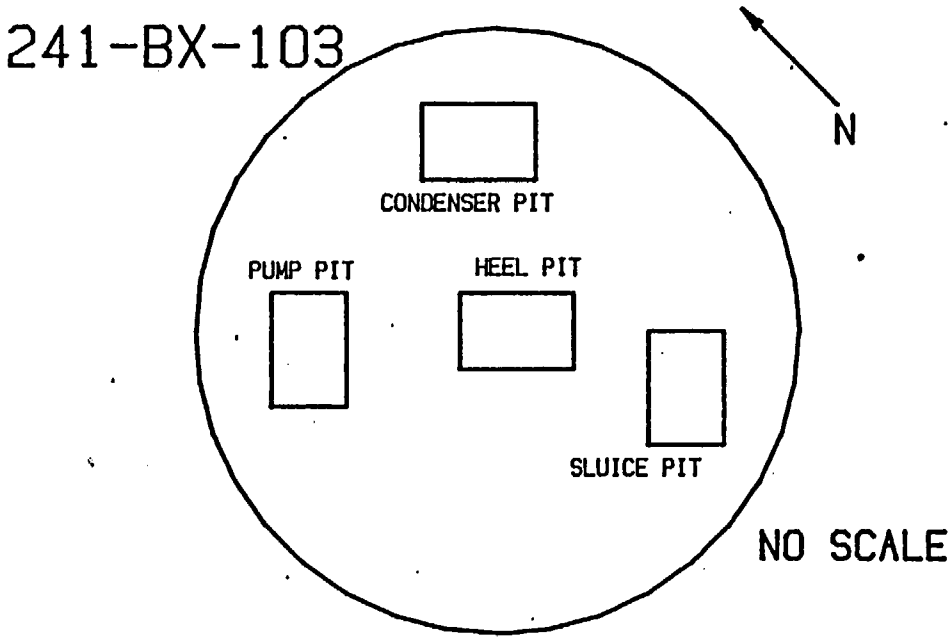
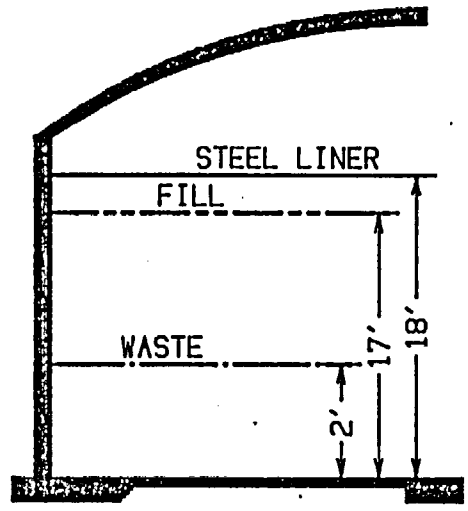
PRELIMINARY DATA

BX-103 TANK DETAILED DESCRIPTION





DESCRIPTION: 532-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 11% FULL DUE TO WASTE TRANSFERS SINCE 1949. THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SLUDGE AND LIQUOR.

VOLUME :	63 KGALS
TRU :	36 Ci
Sr90 :	32500 Ci
Cs137 :	2070 Ci
Tc99 :	18 Ci
Pu241 :	0 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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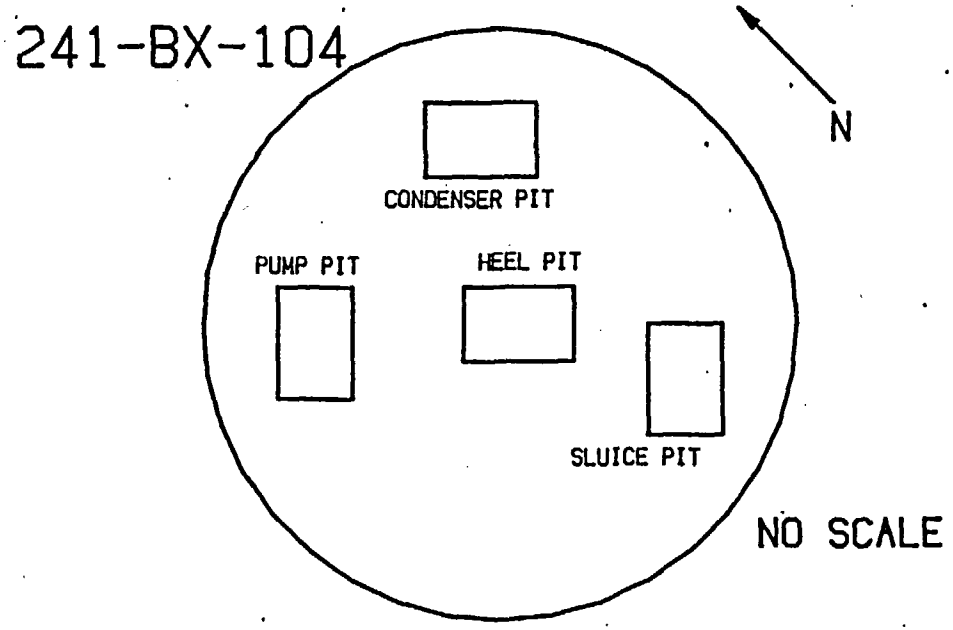
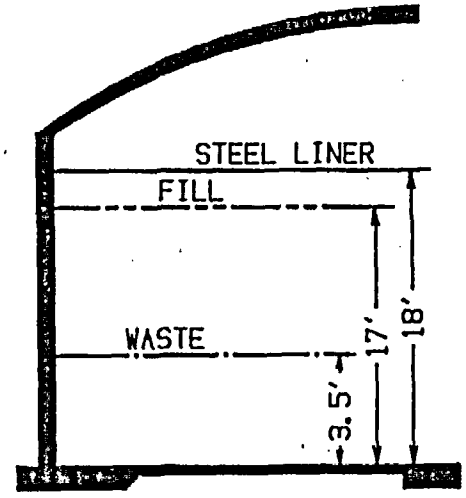
PRELIMINARY DATA

BX-104 TANK DETAILED DESCRIPTION





PRELIMINARY DATA

DESCRIPTION: 532-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 21% FULL DUE TO WASTE TRANSFERS SINCE 1949.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SLUDGE AND LIQUOR.

VOLUME :	117 KGALS
TRU :	119 Ci
Sr90 :	231000 Ci
Cs137 :	4200 Ci
Tc99 :	7 Ci
Pu241 :	298 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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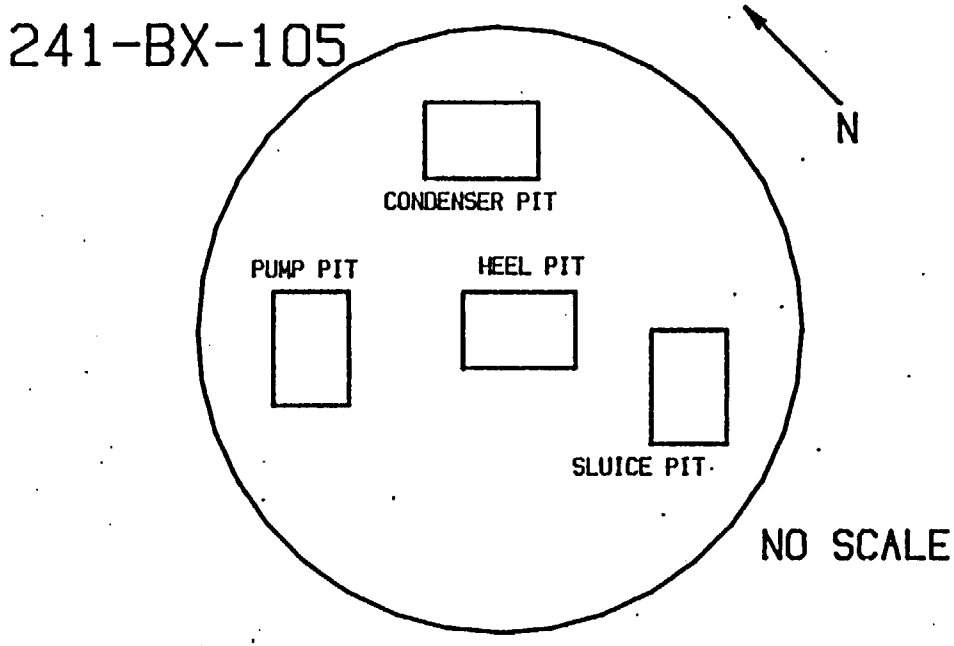
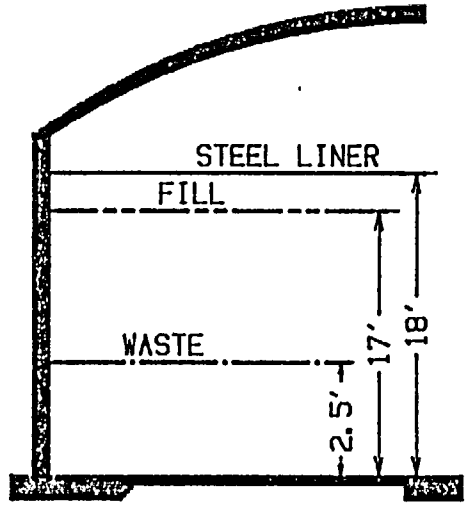
BX-105 TANK DETAILED DESCRIPTION





DESCRIPTION: 532-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 15% FULL DUE TO WASTE TRANSFERS SINCE 1949.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SALTCAKE, SLUDGE AND LIQUOR.

VOLUME :	79 KGALS
TRU :	8 Ci
Sr90 :	24500 Ci
Cs137 :	6260 Ci
Tc99 :	3 Ci
Pu241 :	1 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

EPA TOUR BOOK
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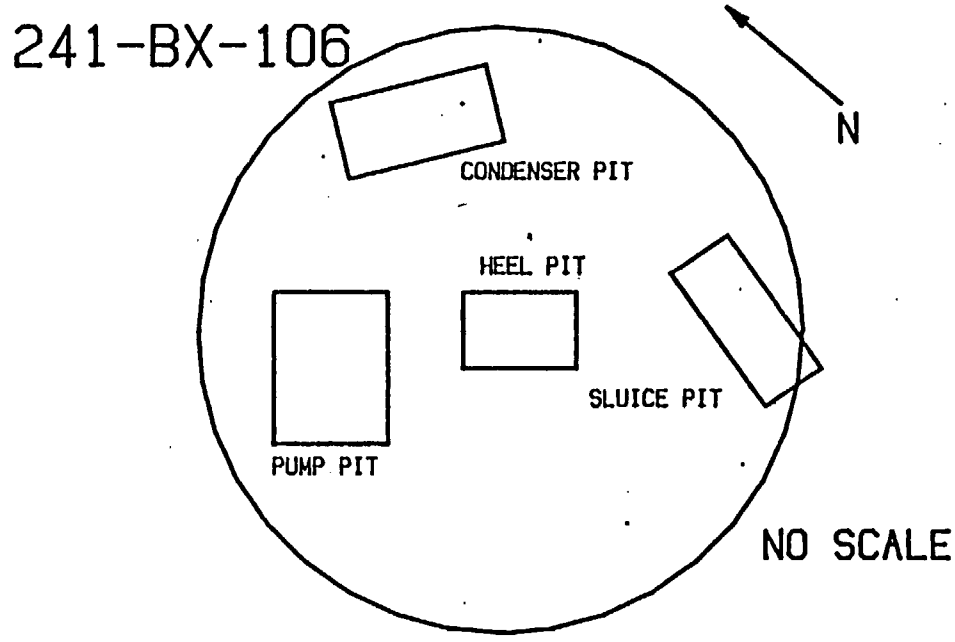
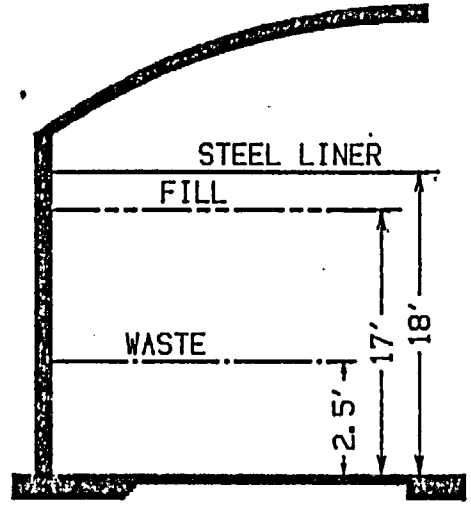
PRELIMINARY DATA

BX-106 TANK DETAILED DESCRIPTION





DESCRIPTION: 532-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 7% FULL DUE TO WASTE TRANSFERS SINCE 1954.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SLUDGE AND LIQUOR.

VOLUME :	41 KGALS
TRU :	67 Ci
Sr90 :	6550 Ci
Cs137 :	259000 Ci
Tc99 :	303 Ci
Pu241 :	0 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

EPA TOUR BOOK
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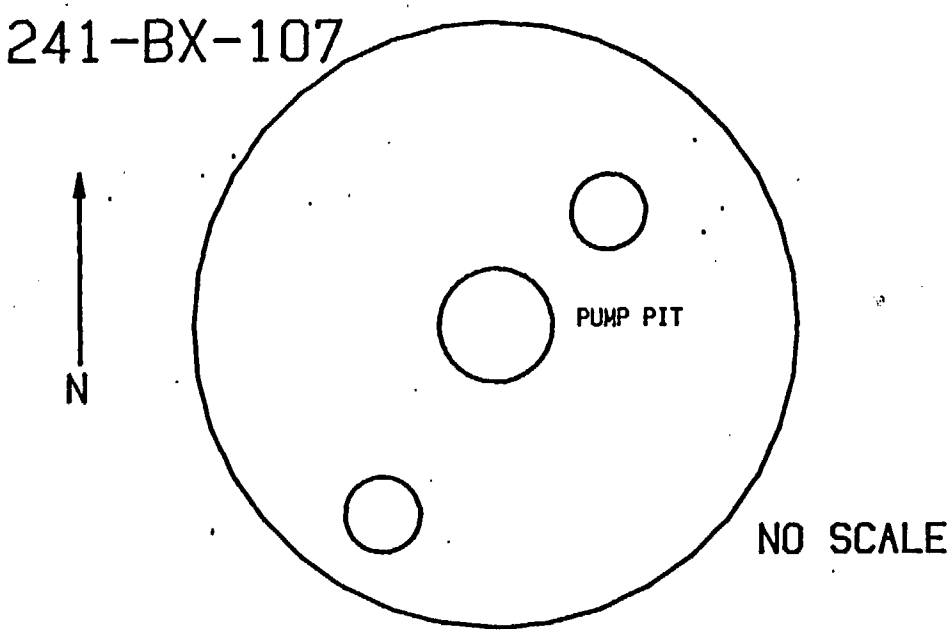
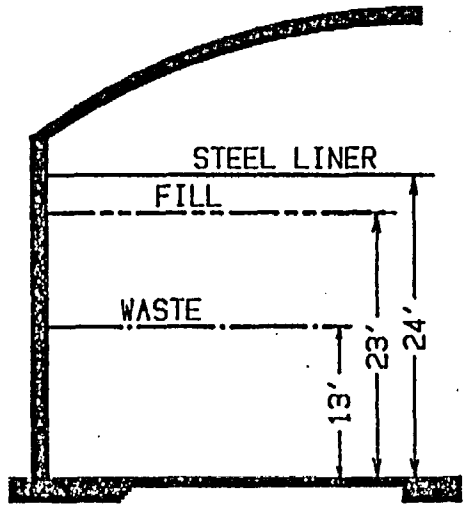
PRELIMINARY DATA

BX-107 TANK DETAILED DESCRIPTION





DESCRIPTION: 532-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 76% FULL DUE TO WASTE TRANSFERS SINCE 1948.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SLUDGE AND LIQUOR.

VOLUME :	406 KGALS
TRU :	45 Ci
Sr90 :	16800 Ci
Cs137 :	90400 Ci
Tc99 :	341 Ci
Pu241 :	14 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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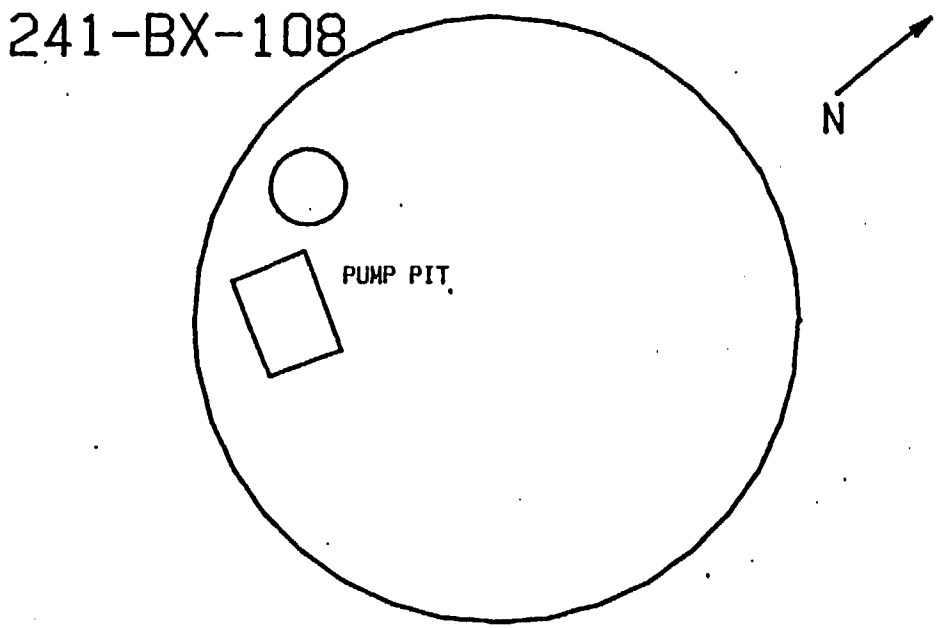
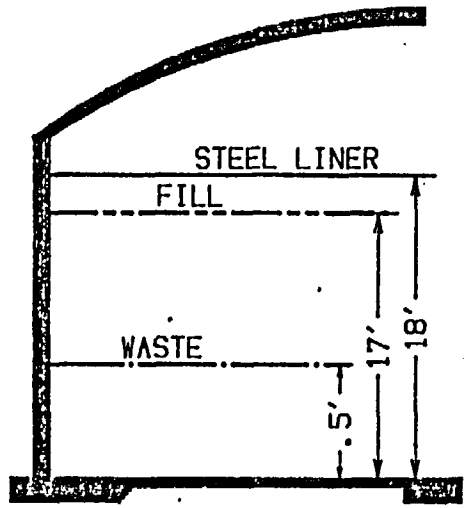
PRELIMINARY DATA

BX-108 TANK DETAILED DESCRIPTION





DESCRIPTION: 532-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 4% FULL DUE TO WASTE TRANSFERS SINCE 1949.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED SLUDGE.

VOLUME :	26 KGALS
TRU :	3 Ci
Sr90 :	611 Ci
Cs137 :	15700 Ci
Tc99 :	61 Ci
Pu241 :	0 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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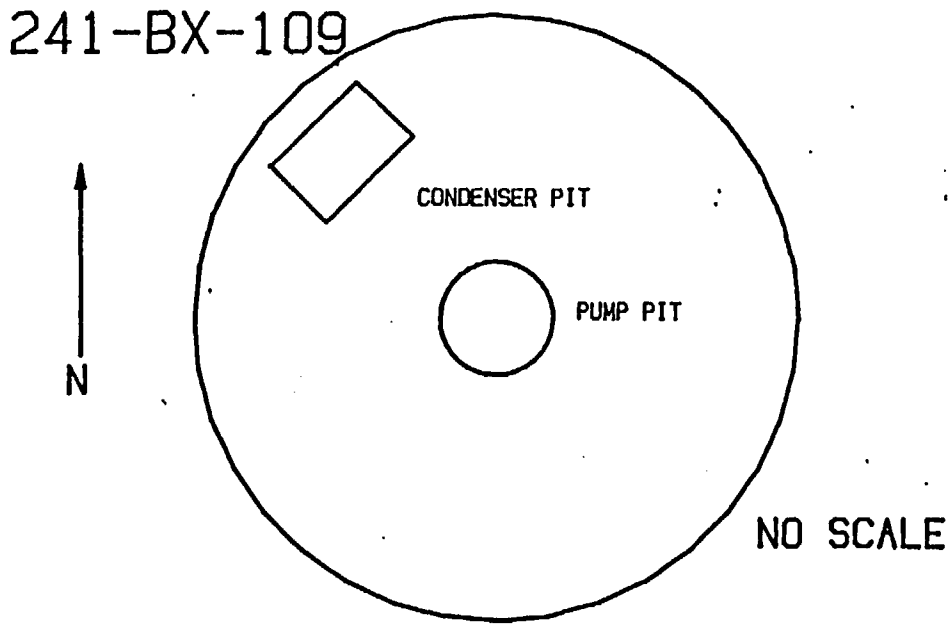
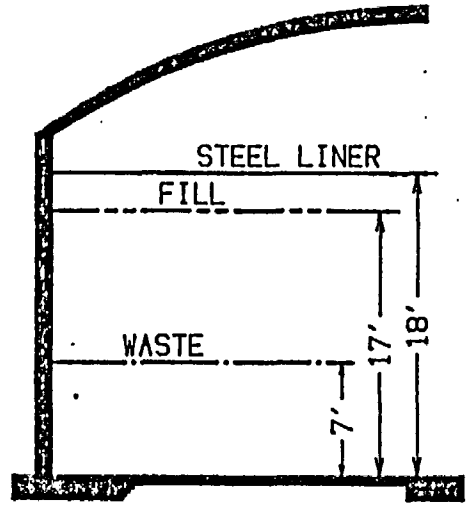
PRELIMINARY DATA

BX-109 TANK DETAILED DESCRIPTION





PRELIMINARY DATA

DESCRIPTION: 532-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 41% FULL DUE TO WASTE TRANSFERS SINCE 1953.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SLUDGE AND LIQUOR.

VOLUME :	223 KGALS
TRU :	1 Ci
Sr90 :	37500 Ci
Cs137 :	77800 Ci
Tc99 :	189 Ci
Pu241 :	0 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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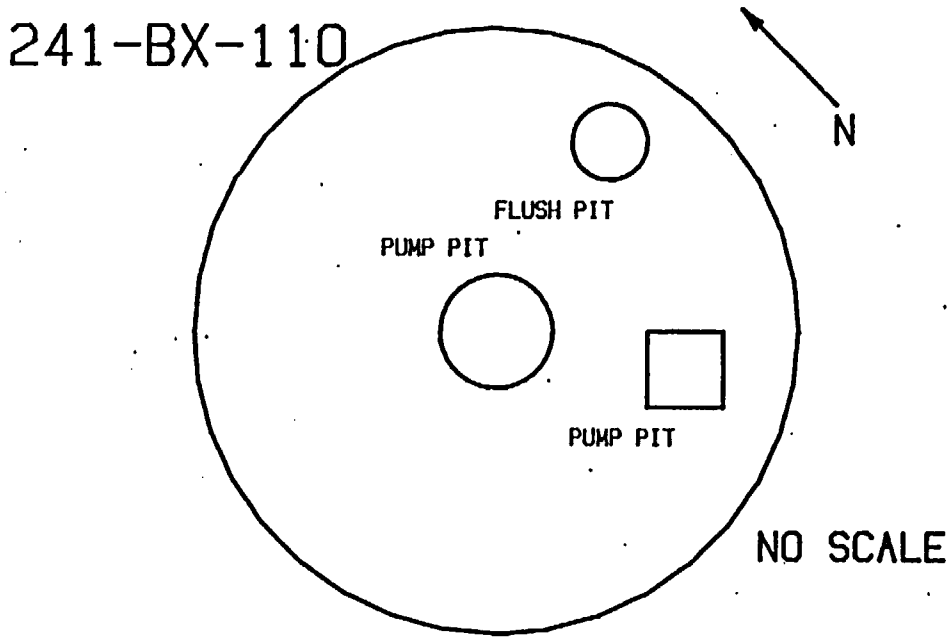
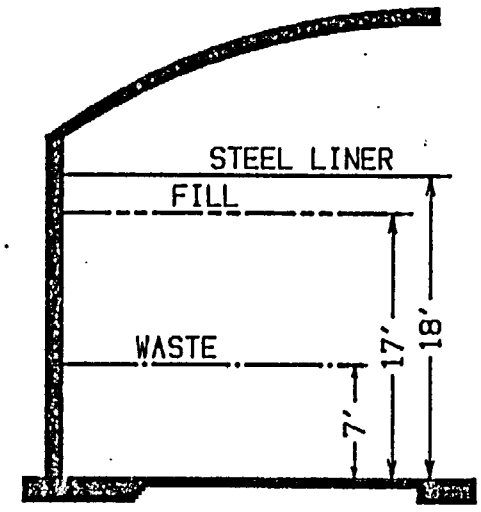
BX-110 TANK DETAILED DESCRIPTION





DESCRIPTION: 532-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 40% FULL DUE TO WASTE TRANSFERS SINCE 1949. THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SALTCAKE, SLUDGE AND LIQUOR.

VOLUME :	215 KGALS
TRU :	158 Ci
Sr90 :	17000 Ci
Cs137 :	493000 Ci
Tc99 :	481 Ci
Pu241 :	9 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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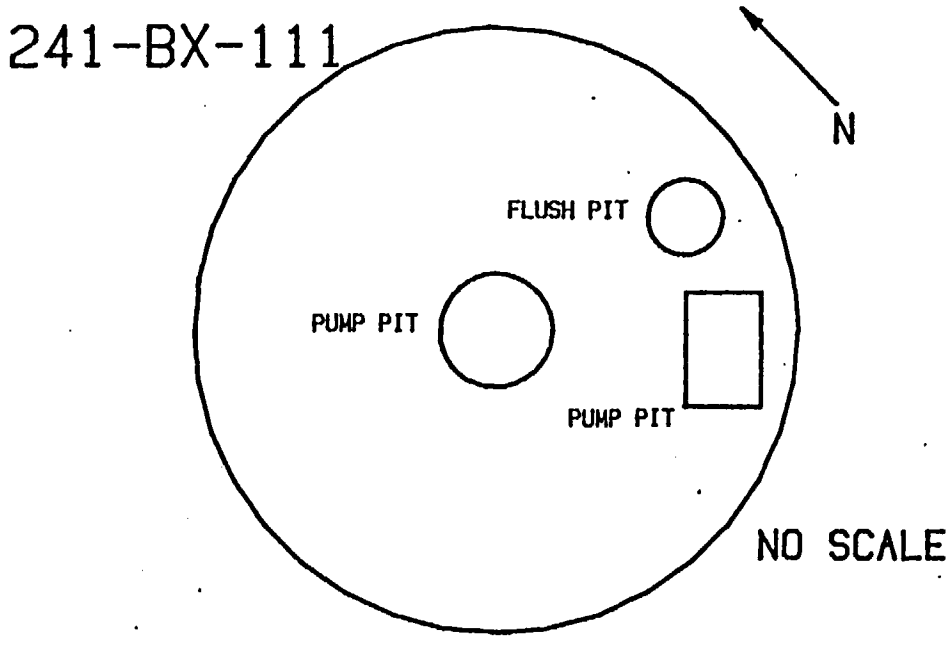
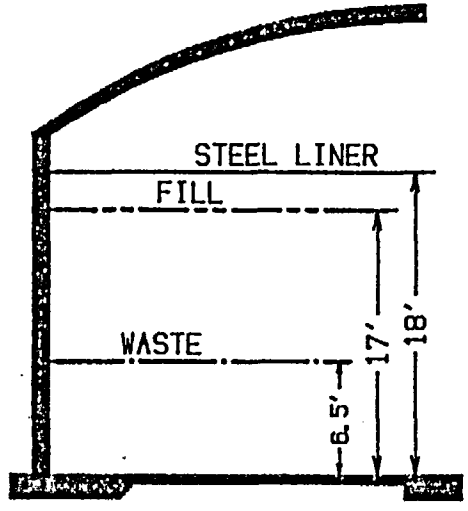
PRELIMINARY DATA

BX-111 TANK DETAILED DESCRIPTION





DESCRIPTION: 532-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 39% FULL DUE TO WASTE TRANSFERS SINCE 1951.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SALTCAKE, SLUDGE AND LIQUOR.

VOLUME :	210 KGALS
TRU :	105 Ci
Sr90 :	7450 Ci
Cs137 :	361805 Ci
Tc99 :	352 Ci
Pu241 :	1 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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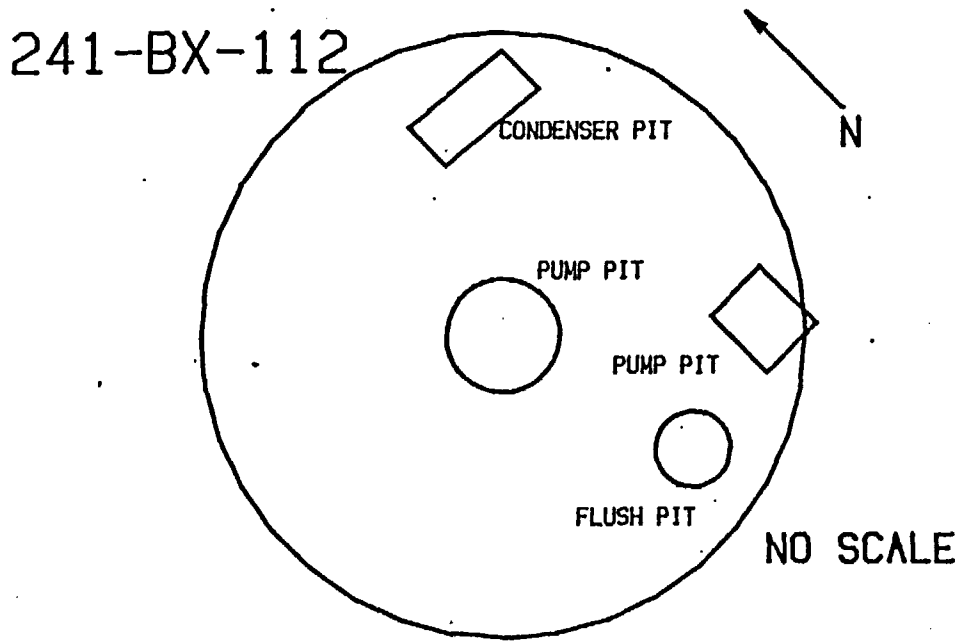
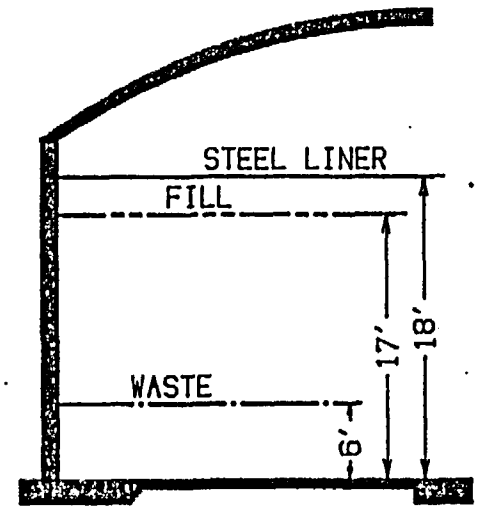
PRELIMINARY DATA

BX-112 TANK DETAILED DESCRIPTION





DESCRIPTION: 532-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 34% FULL DUE TO WASTE TRANSFERS SINCE 1953.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SLUDGE AND LIQUOR.

VOLUME :	183 KGALS
TRU :	0 Ci
Sr90 :	13 Ci
Cs137 :	6880 Ci
Tc99 :	1 Ci
Pu241 :	0 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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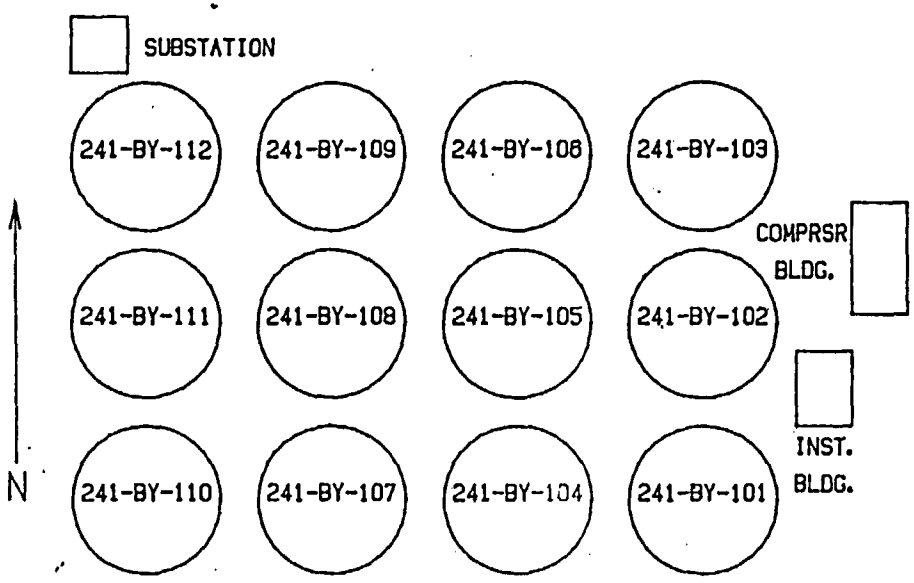
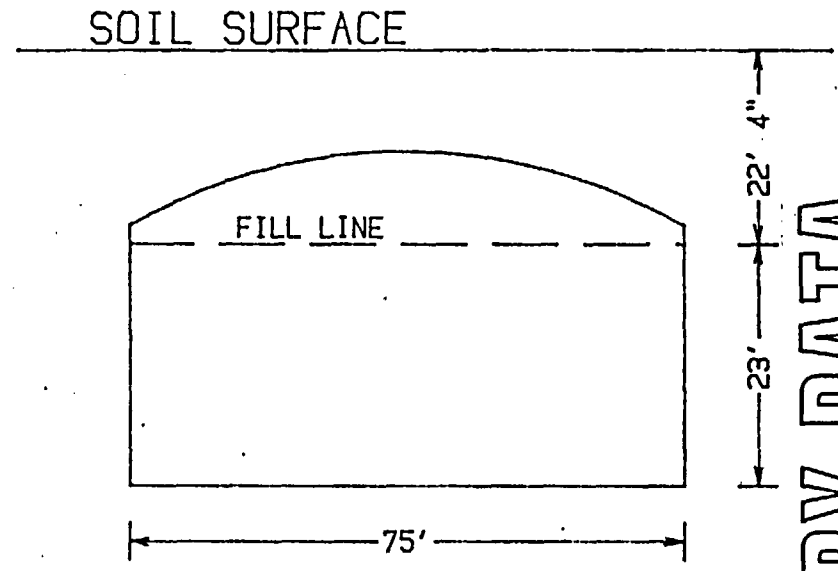
PRELIMINARY DATA

241- BY TANK FARM SUMMARY



NO SCALE

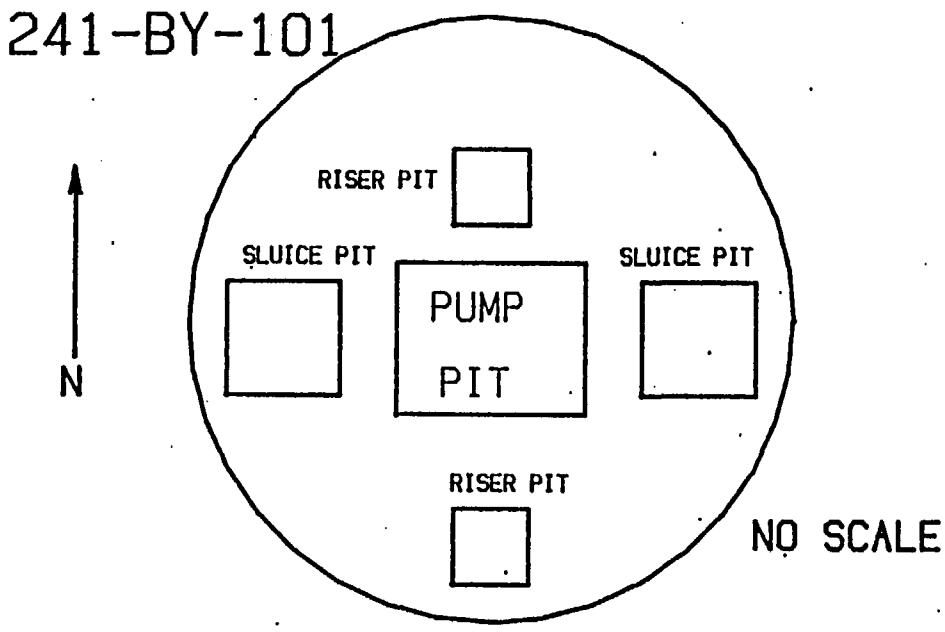


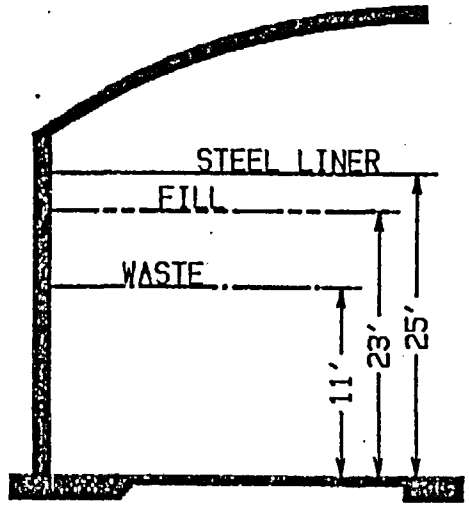
TANK NAME	FILL FRACTION	COMPLEXANT MOLES	HEAT GENERATION BTU/hr	TRU Ci	TRU NCi/g
BY-101	0.48	18	10350	143	69
BY-102	0.43	1	3582	14	8
BY-103	0.46	0	2527	1239	632
BY-104	0.62	10	11888	76	28
BY-105	0.57	9	2951	58	24
BY-106	0.66	9	5067	40	14
BY-107	0.44	10	6327	114	61
BY-108	0.34	8	3116	72	49
BY-109	0.47	1	262	4	2
BY-110	0.55	10	4890	62	26
BY-111	0.63	9	3575	54	20
BY-112	0.33	7	2029	33	23

PRELIMINARY DATA

PRE-DISPOSAL TANK STATE APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

BY-101 TANK DETAILED DESCRIPTION





DESCRIPTION: 758-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 48% FULL DUE TO WASTE TRANSFERS SINCE 1950. THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SALTCAKE, SLUDGE AND LIQUOR.

VOLUME :	364 KGALS
TRU :	143 Ci
Sr90 :	261824 Ci
Cs137 :	257518 Ci
Tc99 :	251 Ci
Pu241 :	35 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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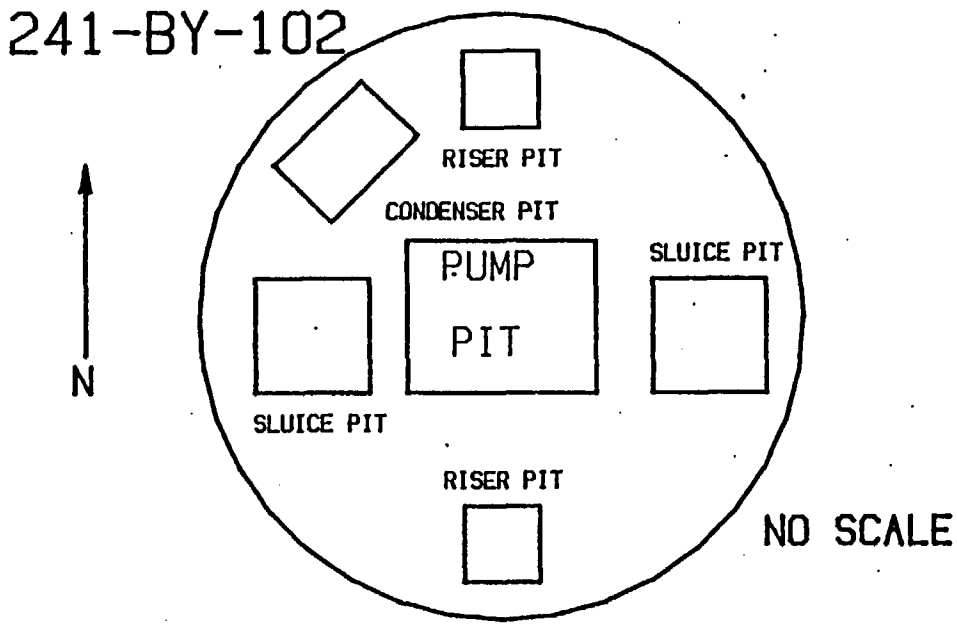
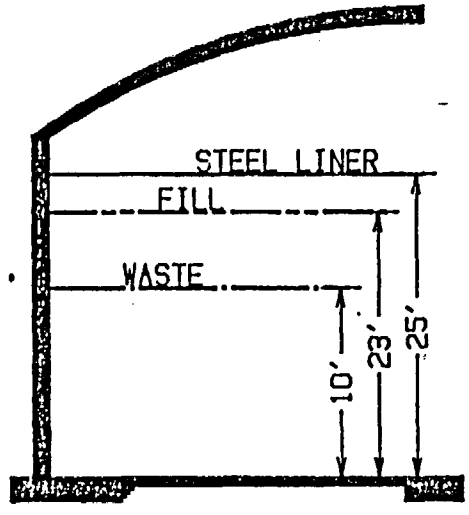
PRELIMINARY DATA

BY-102 TANK DETAILED DESCRIPTION





PRELIMINARY DATA

DESCRIPTION: 758-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 43% FULL DUE TO WASTE TRANSFERS SINCE 1950.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SALTCAKE AND LIQUOR.

VOLUME :	326 KGALS
TRU :	14 Ci
Sr90 :	134575 Ci
Cs137 :	26439 Ci
Tc99 :	25 Ci
Pu241 :	3 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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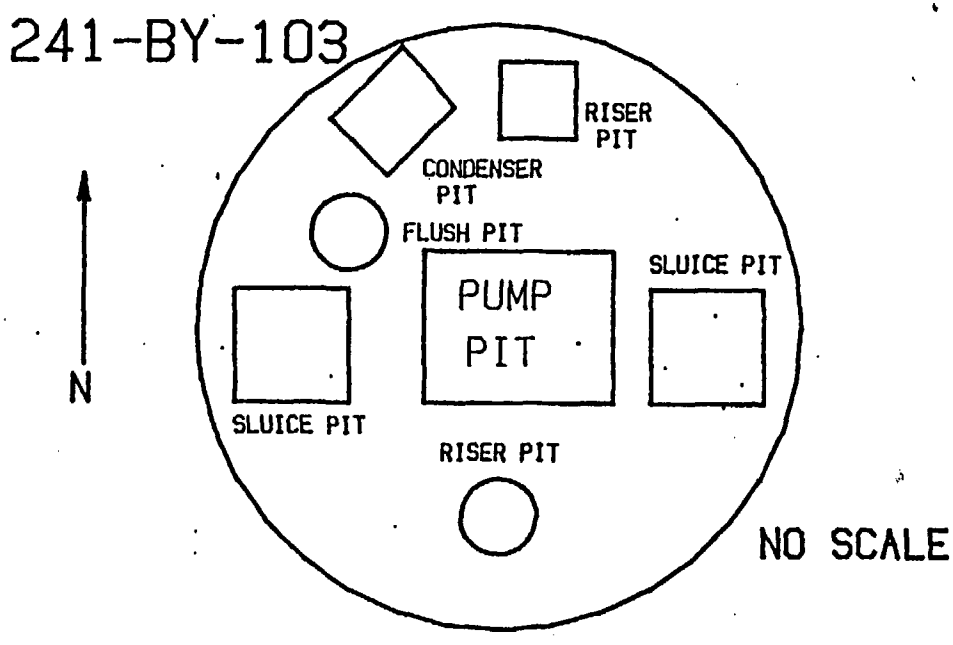
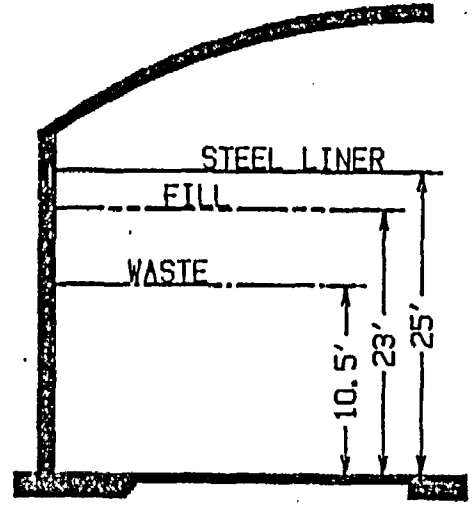
BY-103 TANK DETAILED DESCRIPTION





DESCRIPTION: 758-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 46% FULL DUE TO WASTE TRANSFERS SINCE 1954.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SALTCAKE, SLUDGE AND LIQUOR.

VOLUME :	348 KGALS
TRU :	1239 Ci
Sr90 :	108000 Ci
Cs137 :	0 Ci
Tc99 :	0 Ci
Pu241 :	3810 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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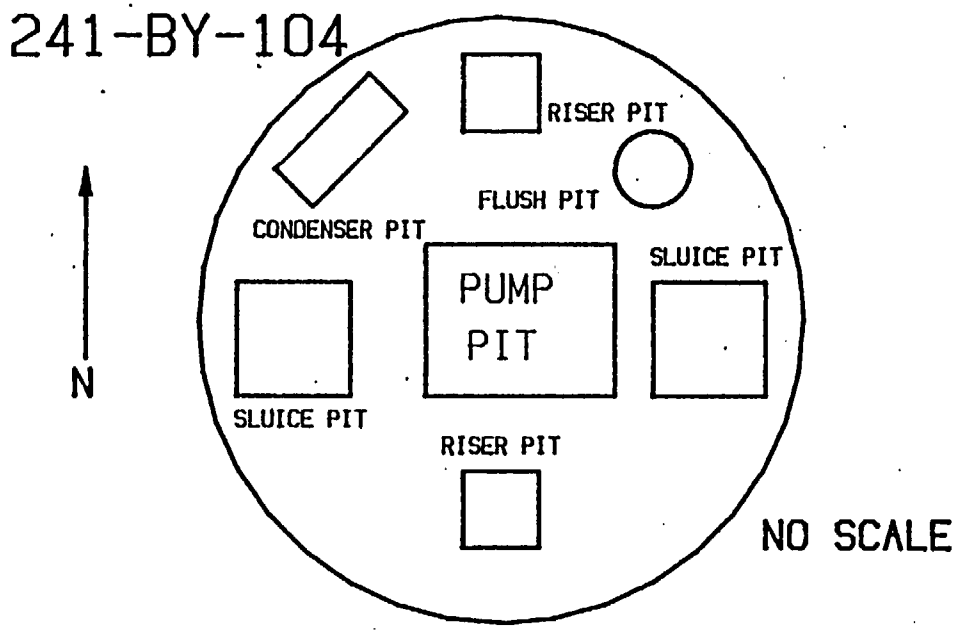
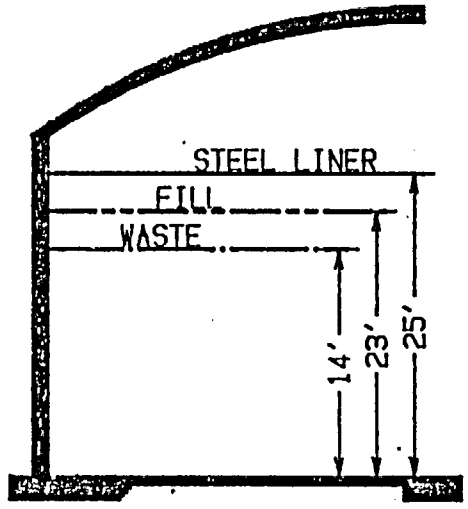
PRELIMINARY DATA

BY-104 TANK DETAILED DESCRIPTION





DESCRIPTION: 758-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 62% FULL DUE TO WASTE TRANSFERS SINCE 1950.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SALTCAKE, SLUDGE AND LIQUOR.

VOLUME :	477 KGALS
TRU :	76 Ci
Sr90 :	405708 Ci
Cs137 :	146015 Ci
Tc99 :	142 Ci
Pu241 :	43 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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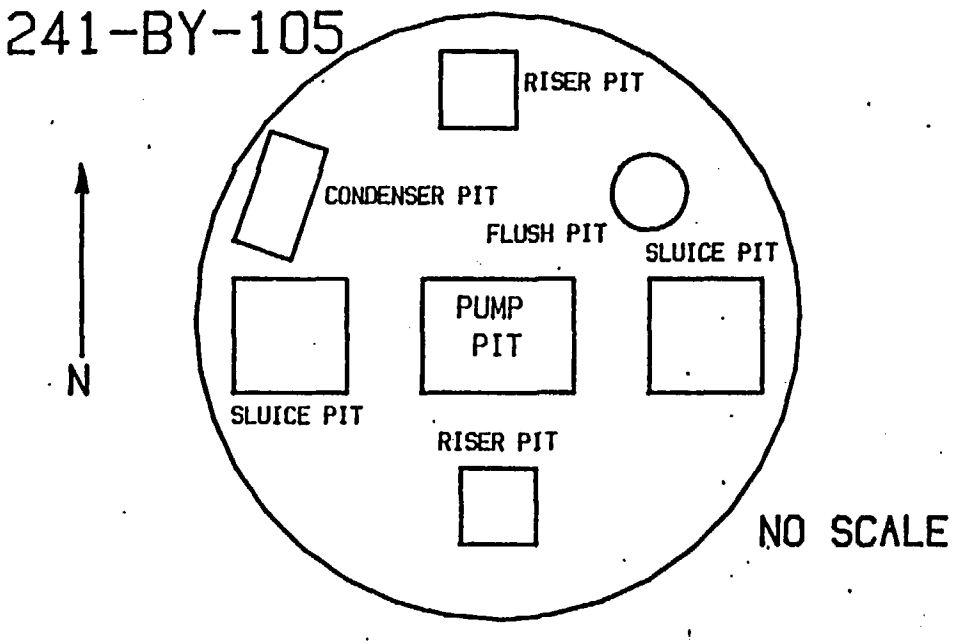
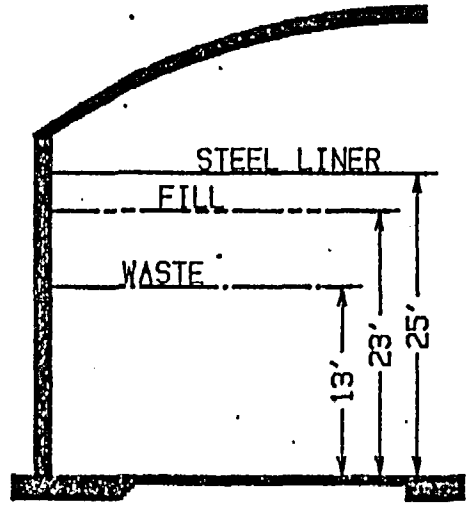
PRELIMINARY DATA

BY-105 TANK DETAILED DESCRIPTION





DESCRIPTION: 75B-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 57% FULL DUE TO WASTE TRANSFERS SINCE 1951. THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SALTCAKE, SLUDGE AND LIQUOR.

VOLUME :	435 KGALS
TRU :	58 Ci
Sr90 :	33488 Ci
Cs137 :	132216 Ci
Tc99 :	128 Ci
Pu241 :	16 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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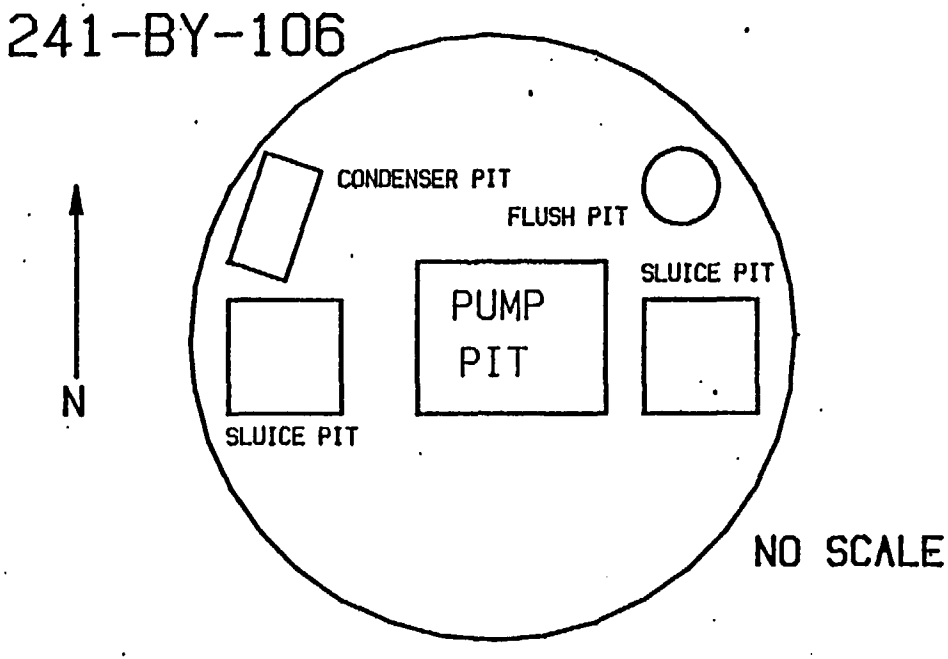
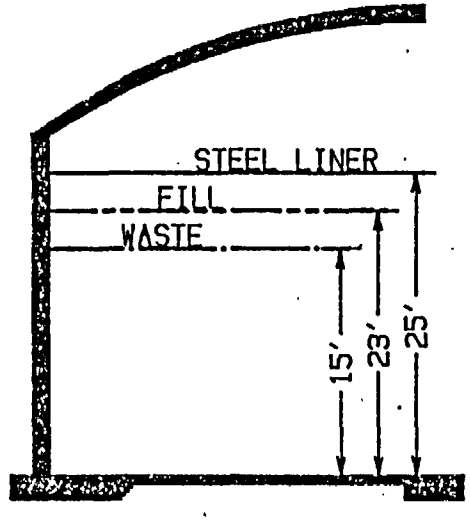
PRELIMINARY DATA

BY-106 TANK DETAILED DESCRIPTION





DESCRIPTION: 758-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 66% FULL DUE TO WASTE TRANSFERS SINCE 1953.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SALTCAKE, SLUDGE AND LIQUOR.

VOLUME :	500 KGALS
TRU :	40 Ci
Sr90 :	124710 Ci
Cs137 :	131063 Ci
Tc99 :	127 Ci
Pu241 :	2 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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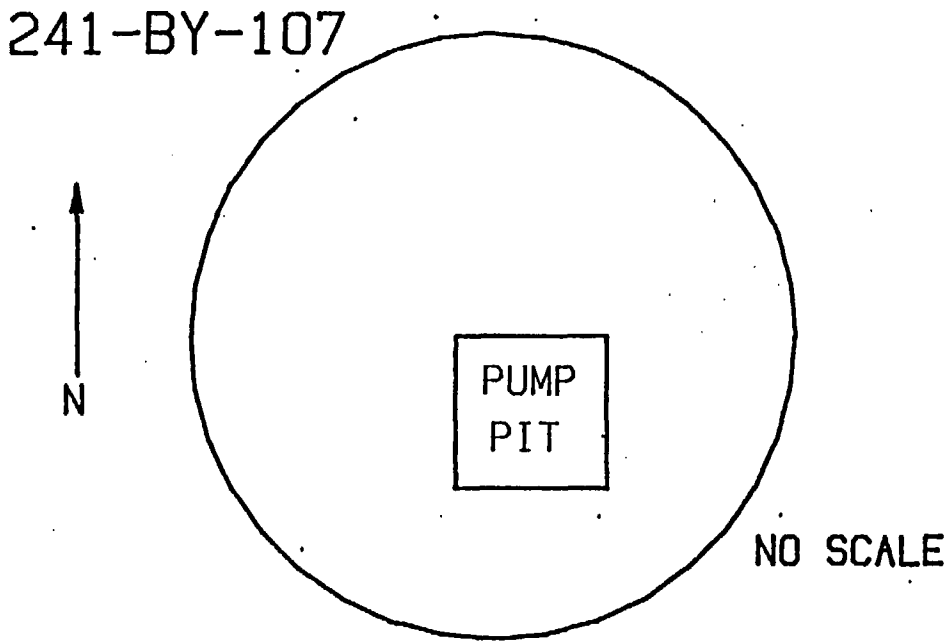
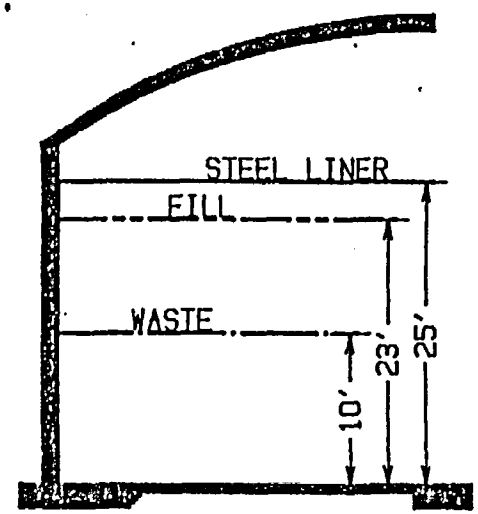
PRELIMINARY DATA

BY-107 TANK DETAILED DESCRIPTION





DESCRIPTION: 758-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 44% FULL DUE TO WASTE TRANSFERS SINCE 1950.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SALTCAKE, SLUDGE AND LIQUOR.

VOLUME :	333 KGALS
TRU :	11.4 Ci
Sr90 :	166849 Ci
Cs137 :	147727 Ci
Tc99 :	144 Ci
Pu241 :	56 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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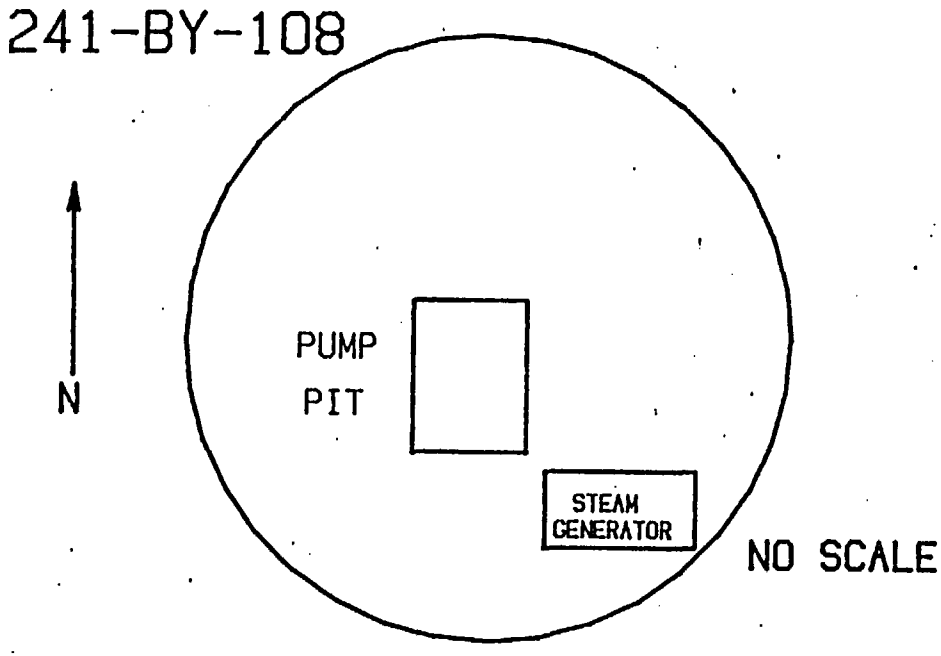
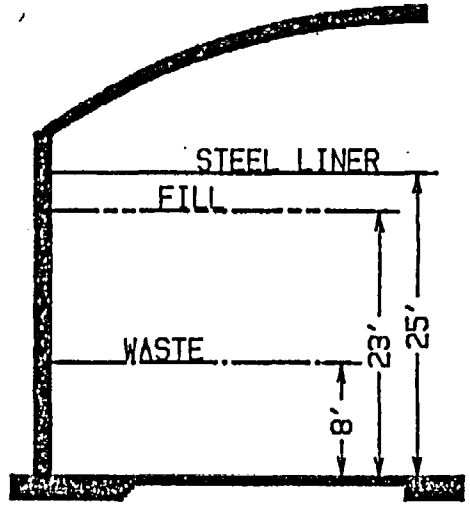
PRELIMINARY DATA

BY-108 TANK DETAILED DESCRIPTION





DESCRIPTION: 758-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 34% FULL DUE TO WASTE TRANSFERS SINCE 1955.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SALTCAKE, SLUDGE AND LIQUOR.

VOLUME :	259 KGALS
TRU :	72 Ci
Sr90 :	0 Ci
Cs137 :	190000 Ci
Tc99 :	142 Ci
Pu241 :	4 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

EPA TOUR BOOK
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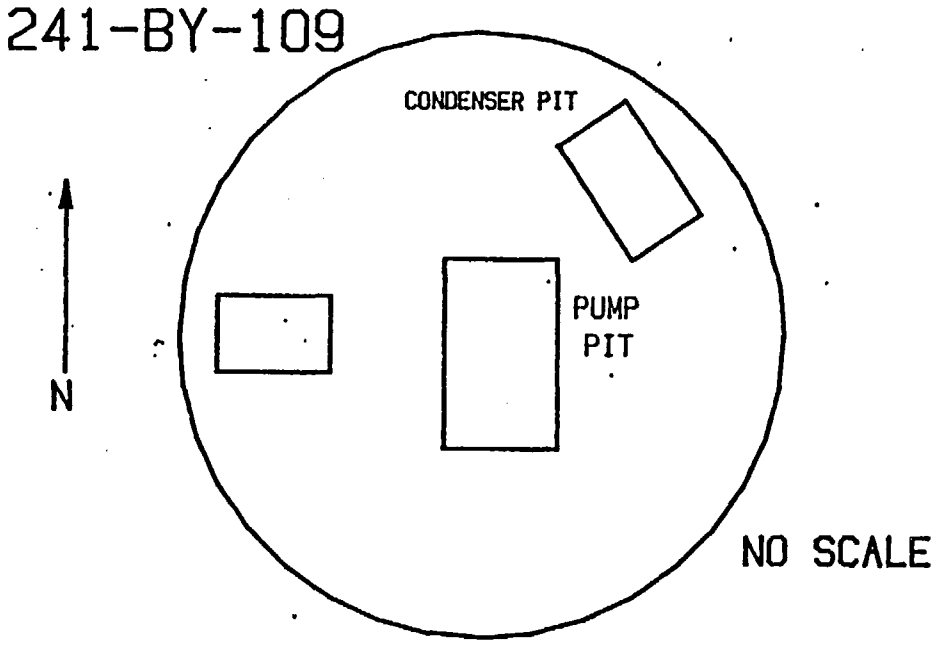
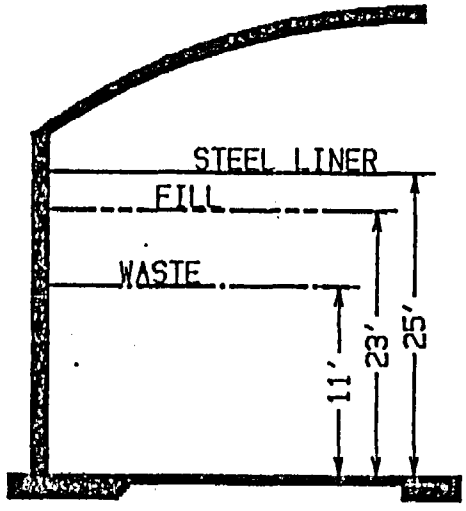
PRELIMINARY DATA

BY-109 TANK DETAILED DESCRIPTION





DESCRIPTION: 758-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 47% FULL DUE TO WASTE TRANSFERS SINCE 1953.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SALTCAKE, SLUDGE AND LIQUOR.

VOLUME :	359 KGALS
TRU :	4 Ci
Sr90 :	298 Ci
Cs137 :	15570 Ci
Tc99 :	15 Ci
Pu241 :	0 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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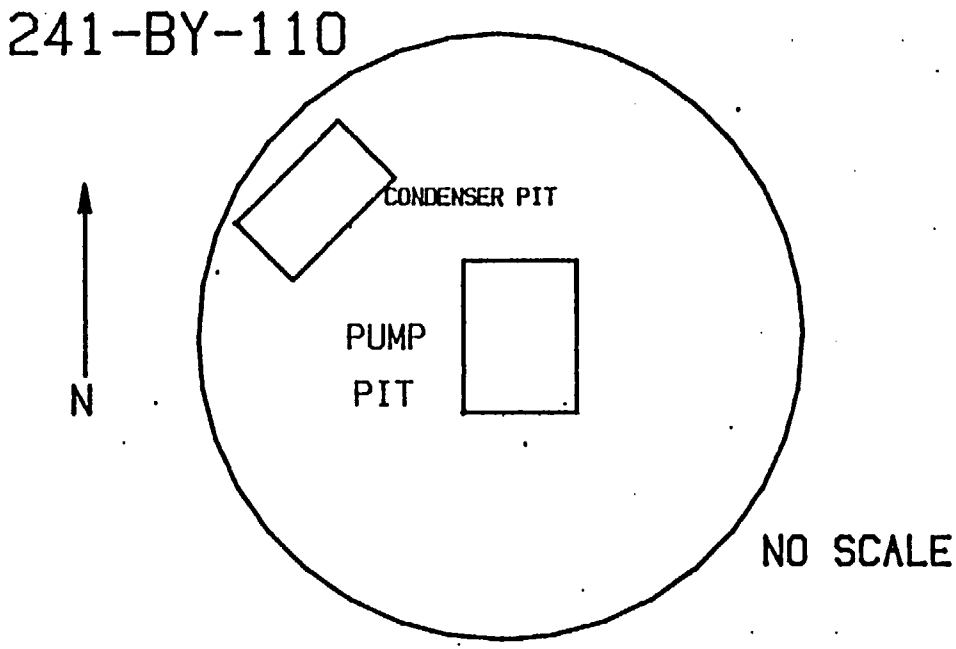
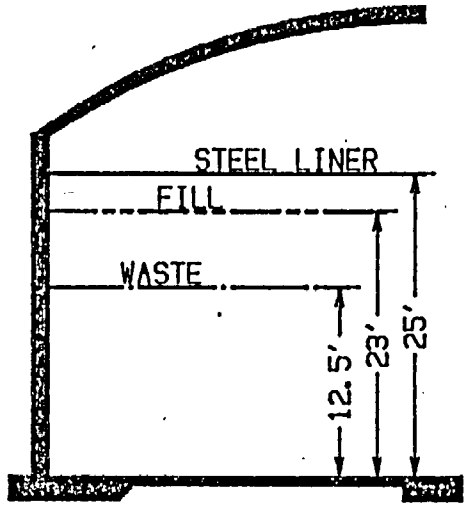
PRELIMINARY DATA

BY-110 TANK DETAILED DESCRIPTION





DESCRIPTION: 758-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 55% FULL DUE TO WASTE TRANSFERS SINCE 1952.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SALTCAKE, SLUDGE AND LIQUOR.

VOLUME :	421 KGALS
TRU :	62 Ci
Sr90 :	103225 Ci
Cs137 :	150898 Ci
Tc99 :	147 Ci
Pu241 :	32 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

EPA TOUR BOOK
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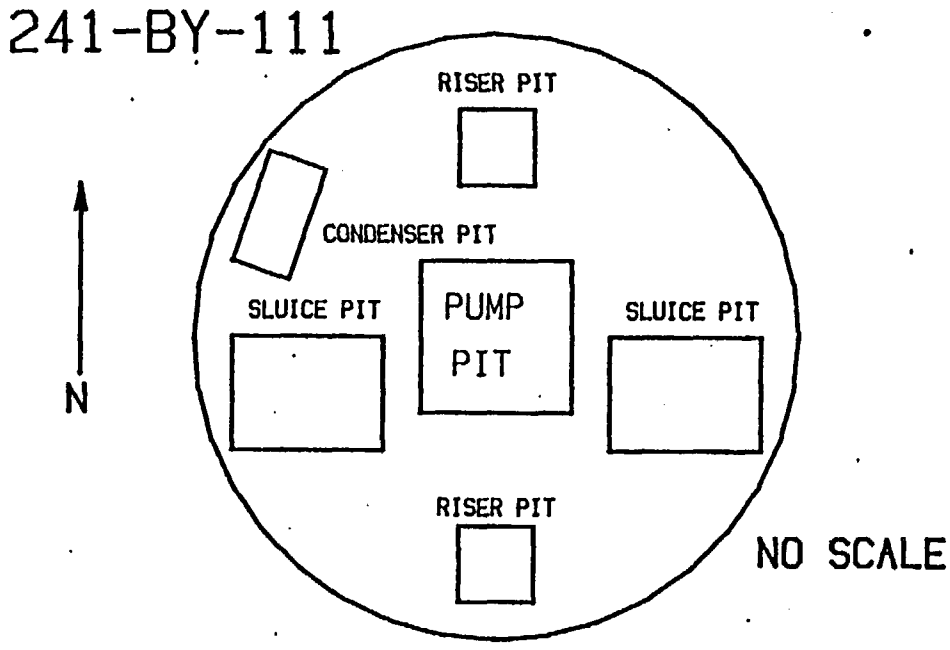
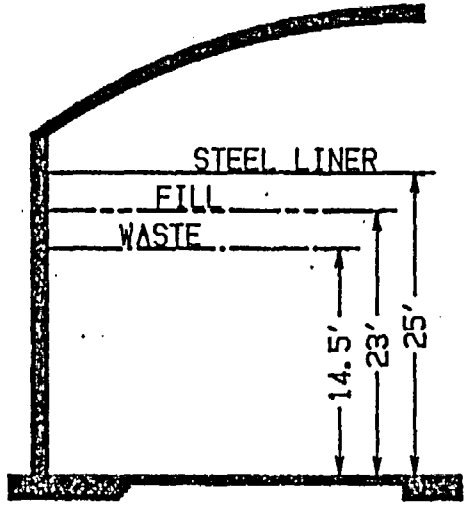
PRELIMINARY DATA

BY-111 TANK DETAILED DESCRIPTION





DESCRIPTION: 758-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 63% FULL DUE TO WASTE TRANSFERS SINCE 1952. THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SALTCAKE, SLUDGE AND LIQUOR.

VOLUME :	480 KGALS
TRU :	54 Ci
Sr90 :	64124 Ci
Cs137 :	126503 Ci
Tc99 :	123 Ci
Pu241 :	16 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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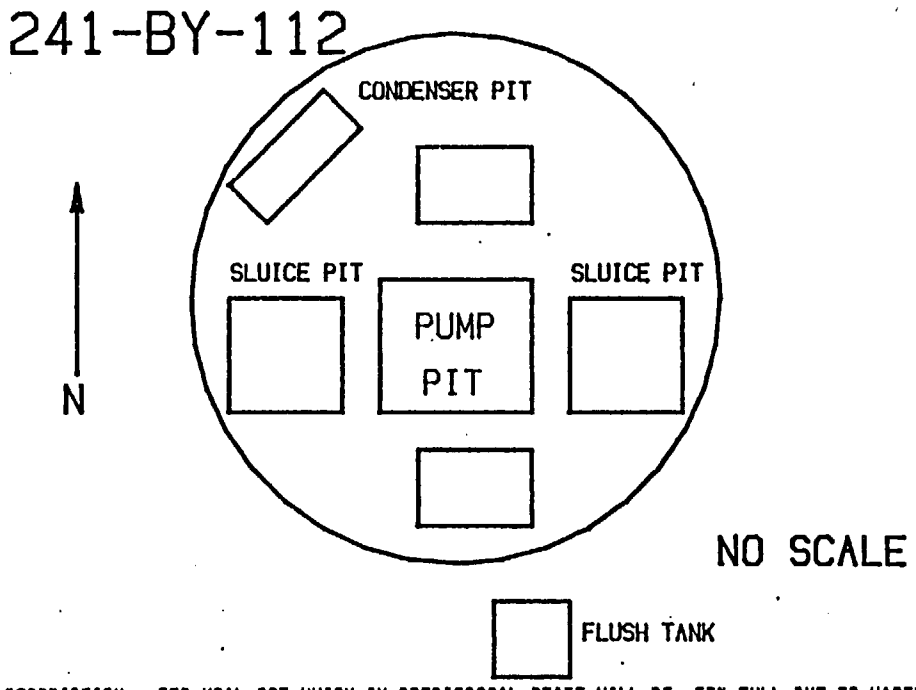
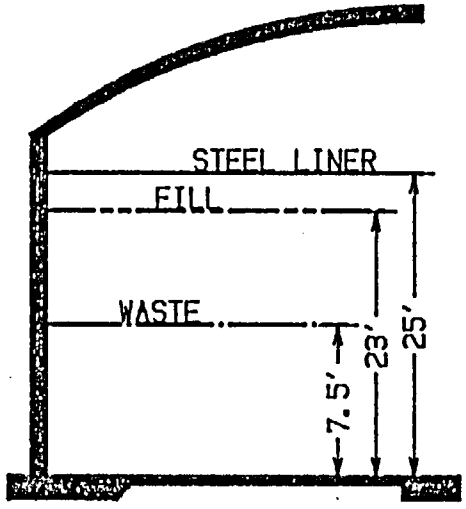
PRELIMINARY DATA

BY-112 TANK DETAILED DESCRIPTION





DESCRIPTION: 758-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 33% FULL DUE TO WASTE TRANSFERS SINCE 1953.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SALTCAKE, SLUDGE AND LIQUOR.

VOLUME :	250 KGALS
TRU :	33 Ci
Sr90 :	9471 Ci
Cs137 :	110256 Ci
Tc99 :	107 Ci
Pu241 :	1 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

EPA TOUR BOOK
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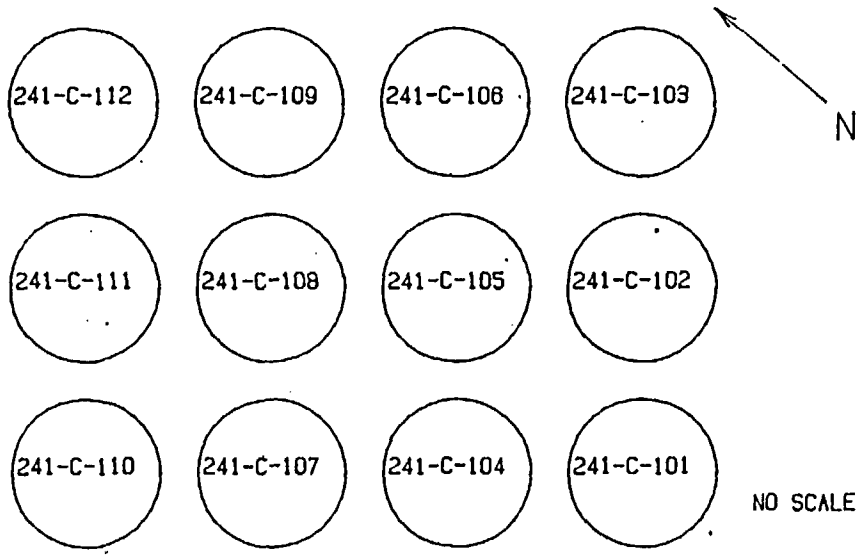
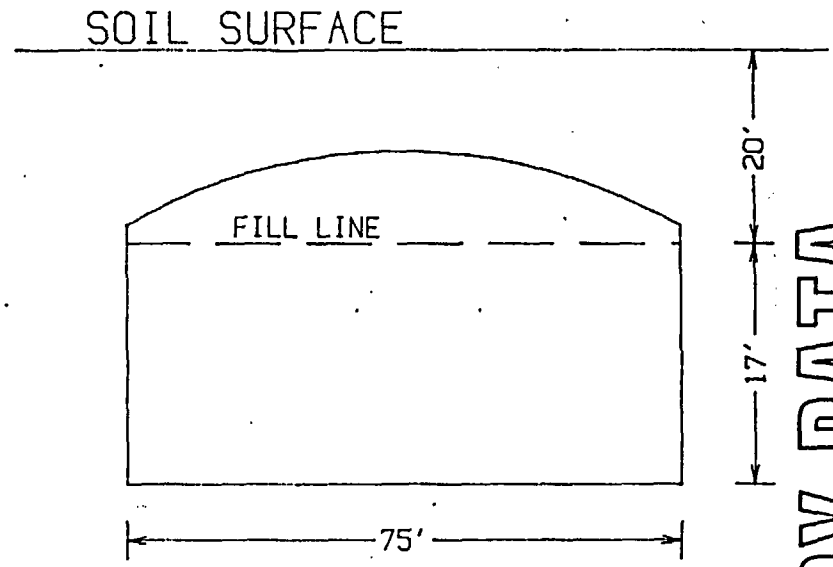
PRELIMINARY DATA

241- C TANK FARM SUMMARY



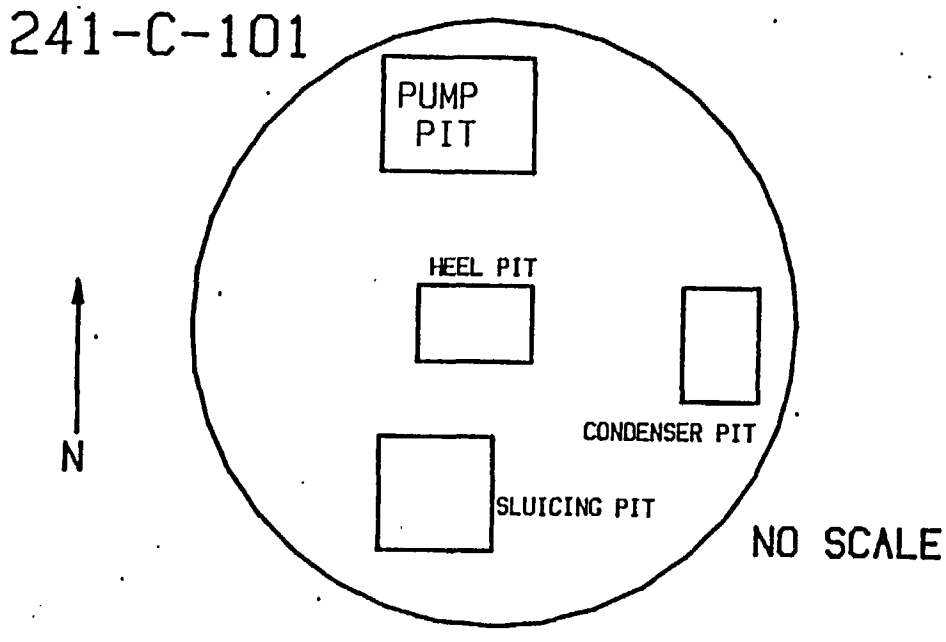


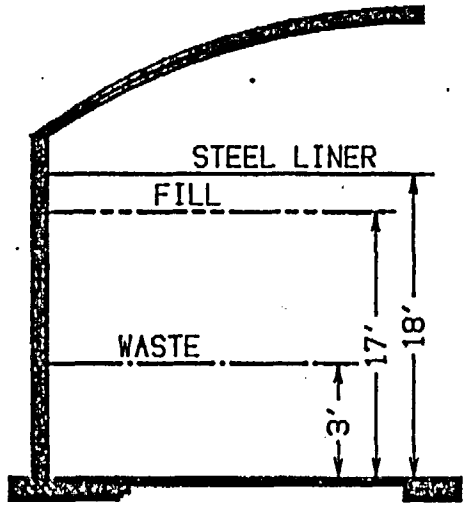
PRELIMINARY DATA

TANK NAME	FILL FRACTION	COMPLEXANT MOLES	HEAT GENERATION BTU/hr	TRU Ci	TRU NCi/g
C-101	0.17	0	2971	131	250
C-102	0.88	0	42354	3947	1480
C-103	0.40	1107	1386	210	175
C-104	0.64	1203	16726	2000	1029
C-105	0.34	0	100757	12814	12484
C-106	0.45	0	55926	919	682
C-107	0.69	2636	4244	300	143
C-108	0.12	0	1858	91	248
C-109	0.12	0	114	0	0
C-110	0.42	1	312	9	7
C-111	0.10	0	1526	243	750
C-112	0.21	1	995	61	95
C-201	0.05	0	323	0	57
C-202	0.01	0	0	0	0
C-203	0.09	0	0	0	0
C-204	0.05	0	0	0	0

PRE-DISPOSAL TANK STATE APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

C-101 TANK DETAILED DESCRIPTION





PRELIMINARY DATA

DESCRIPTION: 532-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 17% FULL DUE TO WASTE TRANSFERS SINCE 1946.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SLUDGE AND LIQUOR.

VOLUME :	93 KGALS
TRU :	131 Ci
Sr90 :	127000 Ci
Cs137 :	0 Ci
Tc99 :	0 Ci
Pu241 :	305 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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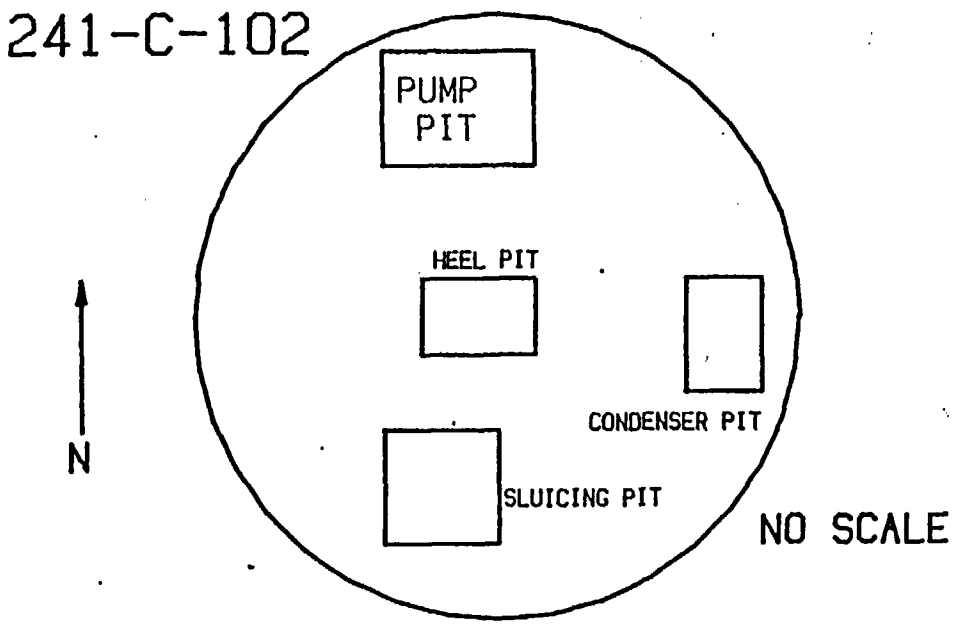
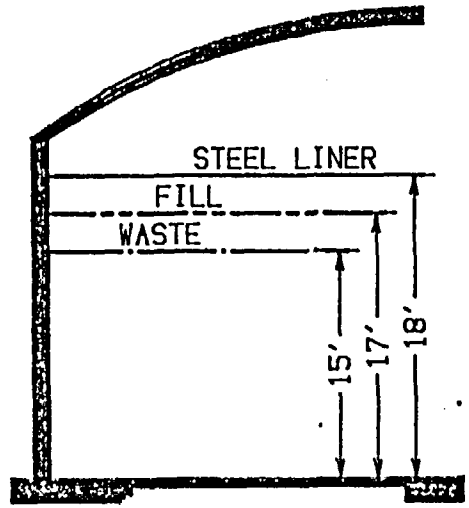
C-102 TANK DETAILED DESCRIPTION





PRELIMINARY DATA

DESCRIPTION: 532-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 88% FULL DUE TO WASTE TRANSFERS SINCE 1946. THE WASTE WILL BE A HIGH HEAT, NON-COMPLEXED MIXTURE OF SLUDGE AND LIQUOR.

VOLUME :	473 KGALS
TRU :	3947 Ci
Sr90 :	1810000 Ci
Cs137 :	0 Ci
Tc99 :	0 Ci
Pu241 :	12700 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

EPA TOUR BOOK
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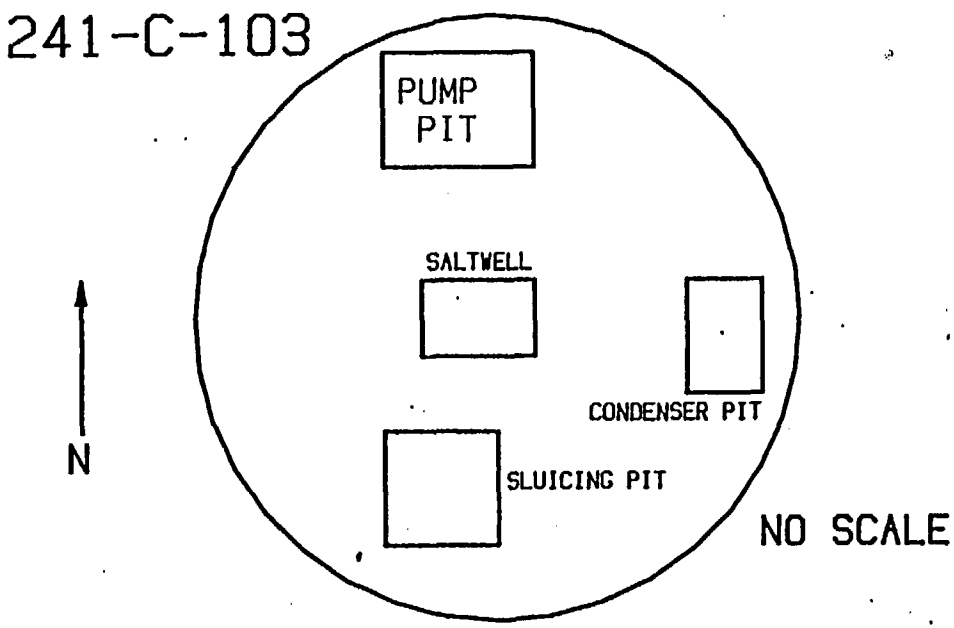
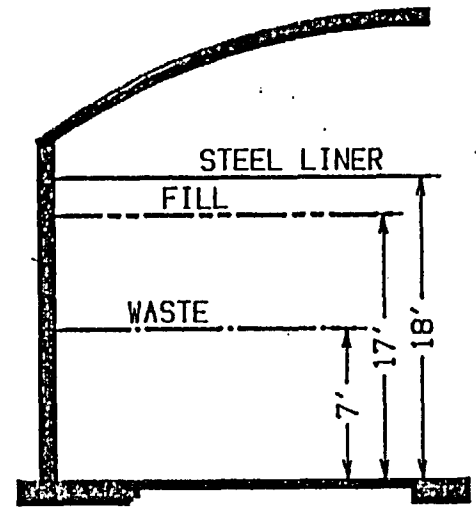
C-103 TANK DETAILED DESCRIPTION





PRELIMINARY DATA

DESCRIPTION: 532-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 40% FULL DUE TO WASTE TRANSFERS SINCE 1953. THE WASTE WILL BE A LOW HEAT, COMPLEXED MIXTURE OF SLUDGE AND LIQUOR.

VOLUME :	214 KGALS
TRU :	210 Ci
Sr90 :	53900 Ci
Cs137 :	7630 Ci
Tc99 :	6 Ci
Pu241 :	412 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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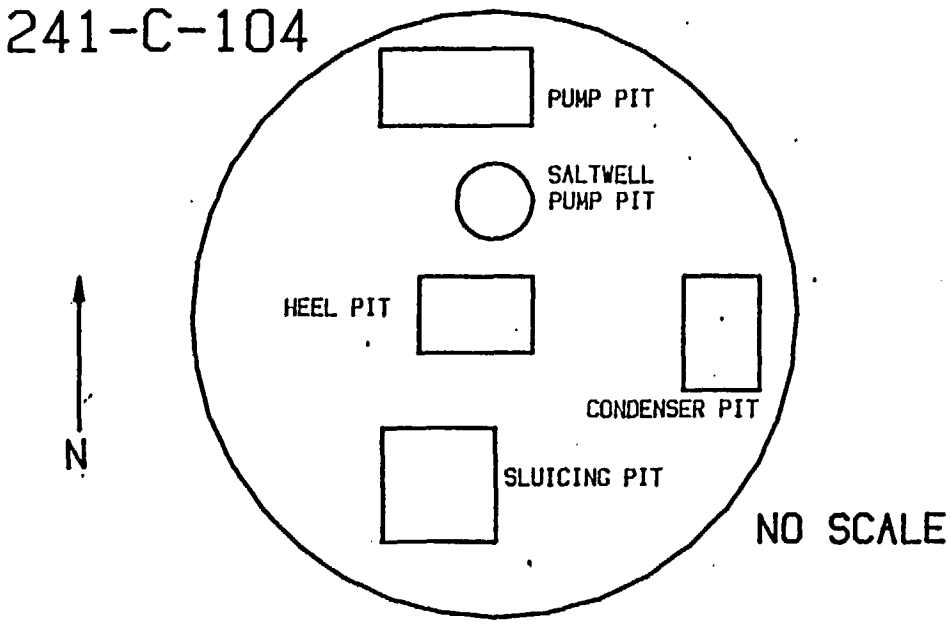
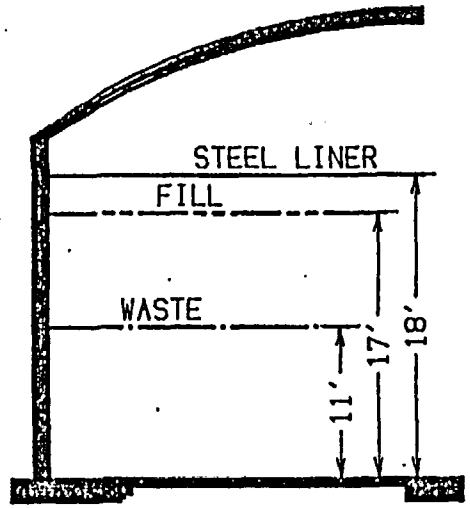
C-104 TANK DETAILED DESCRIPTION





PRELIMINARY DATA

DESCRIPTION: 532-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 64% FULL DUE TO WASTE TRANSFERS SINCE 1946.
THE WASTE WILL BE A LOW HEAT, COMPLEXED MIXTURE OF SLUDGE AND LIQUOR.

VOLUME :	345 KGALS
TRU :	2000 Ci
Sr90 :	709000 Ci
Cs137 :	8290 Ci
Tc99 :	7 Ci
Pu241 :	6050 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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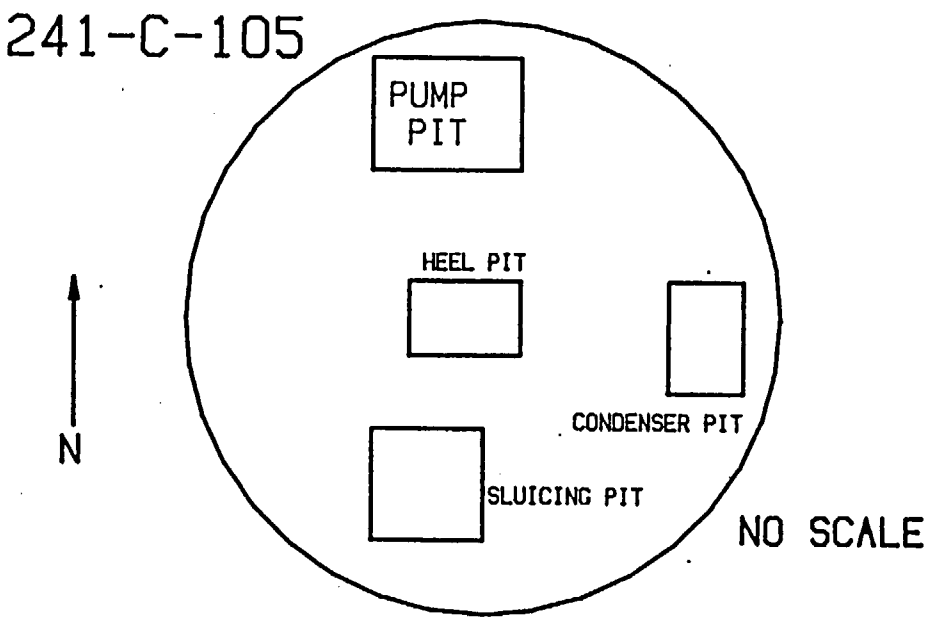
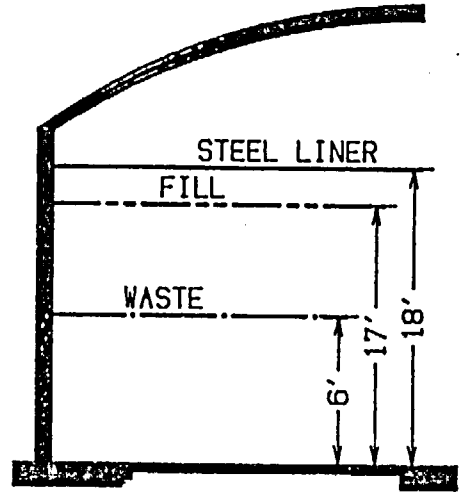
C-105 TANK DETAILED DESCRIPTION





PRELIMINARY DATA

DESCRIPTION: 532-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 34% FULL DUE TO WASTE TRANSFERS SINCE 1947.
THE WASTE WILL BE A HIGH HEAT, NON-COMPLEXED MIXTURE OF SLUDGE AND LIQUOR.

VOLUME :	183 KGALS
TRU :	12814 Ci
Sr90 :	4090000 Ci
Cs137 :	308000 Ci
Tc99 :	1050 Ci
Pu241 :	8440 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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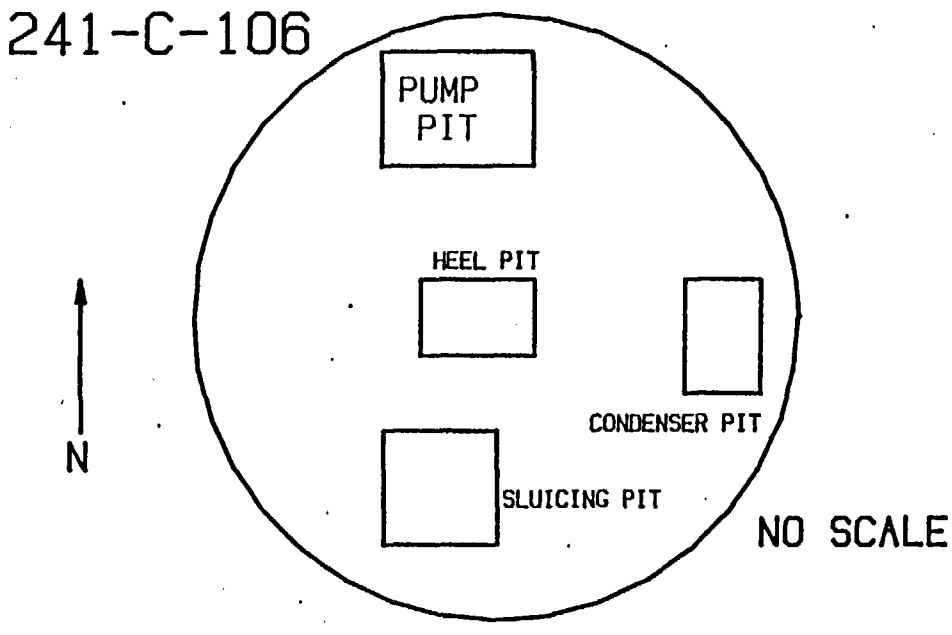
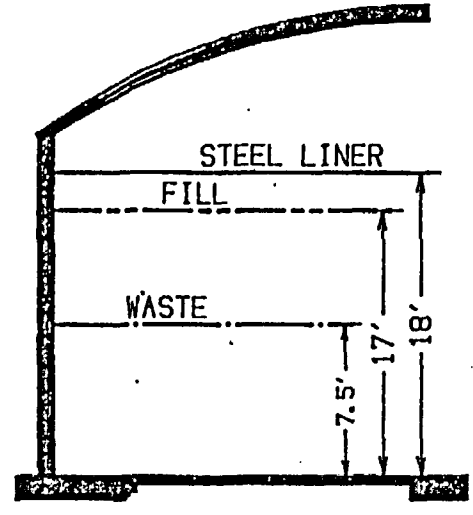
C-106 TANK DETAILED DESCRIPTION





PRELIMINARY DATA

DESCRIPTION: 532-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 45% FULL DUE TO WASTE TRANSFERS SINCE 1951.
THE WASTE WILL BE A HIGH HEAT, NON-COMPLEXED MIXTURE OF SLUDGE AND LIQUOR.

VOLUME :	240 KGALS
TRU :	919 Ci
Sr90 :	2390000 Ci
Cs137 :	0 Ci
Tc99 :	0 Ci
Pu241 :	1300 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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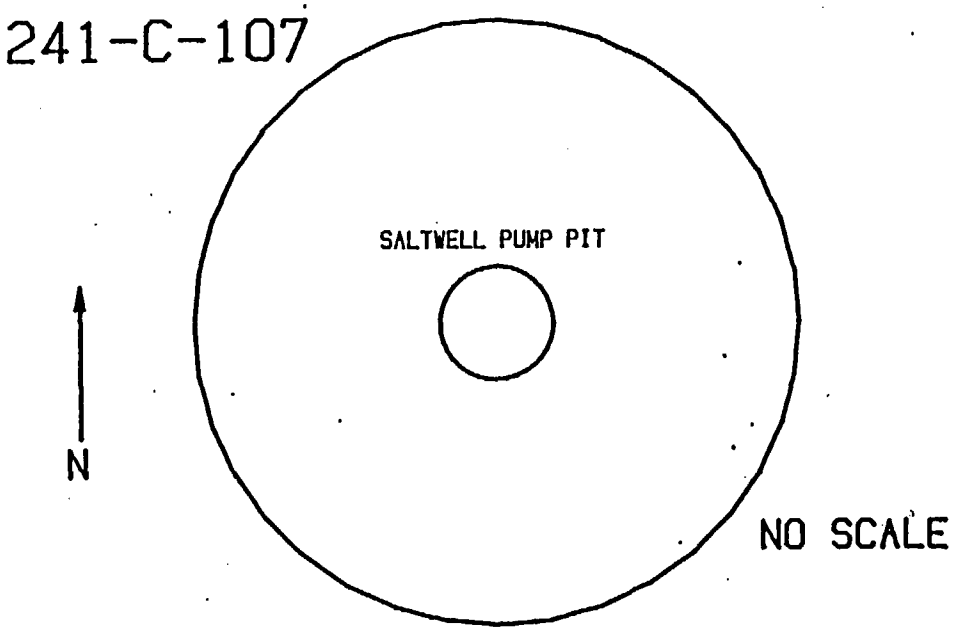
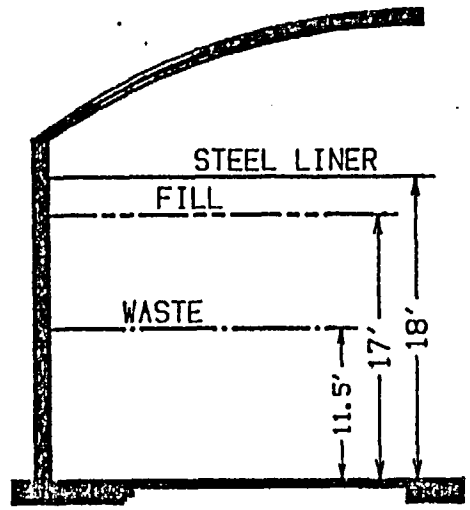
C-107 TANK DETAILED DESCRIPTION





DESCRIPTION: 532-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 69% FULL DUE TO WASTE TRANSFERS SINCE 1946.
THE WASTE WILL BE A LOW HEAT, COMPLEXED MIXTURE OF SLUDGE AND LIQUOR.

VOLUME :	371 KGALS
TRU :	300 Ci
Sr90 :	177000 Ci
Cs137 :	6250 Ci
Tc99 :	1 Ci
Pu241 :	562 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

EPA TOUR BOOK
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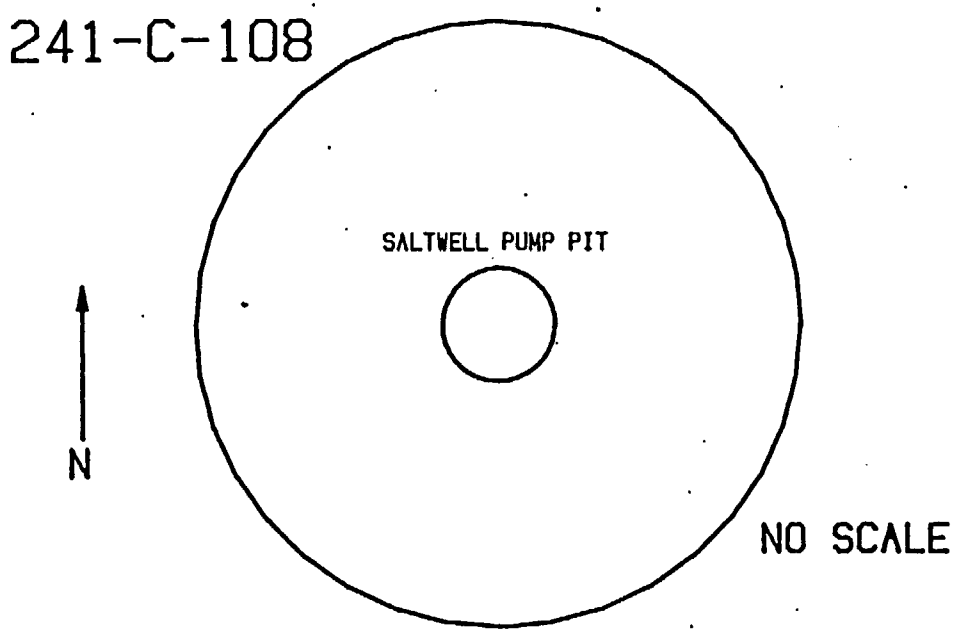
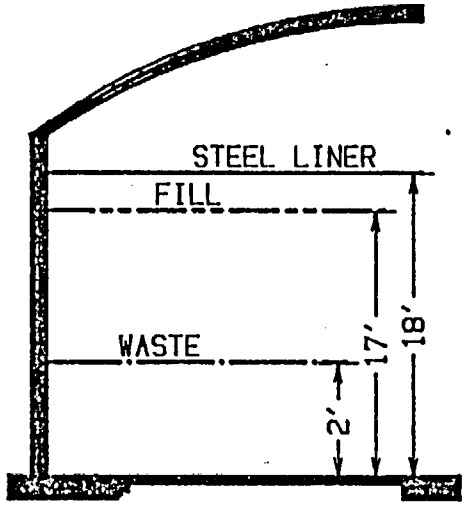
PRELIMINARY DATA

C-108 TANK DETAILED DESCRIPTION





DESCRIPTION: 532-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 12% FULL DUE TO WASTE TRANSFERS SINCE 1947. THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED SLUDGE.

VOLUME :	65 KGALS
TRU :	91 Ci
Sr90 :	57500 Ci
Cs137 :	31300 Ci
Tc99 :	6 Ci
Pu241 :	217 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

EPA TOUR BOOK
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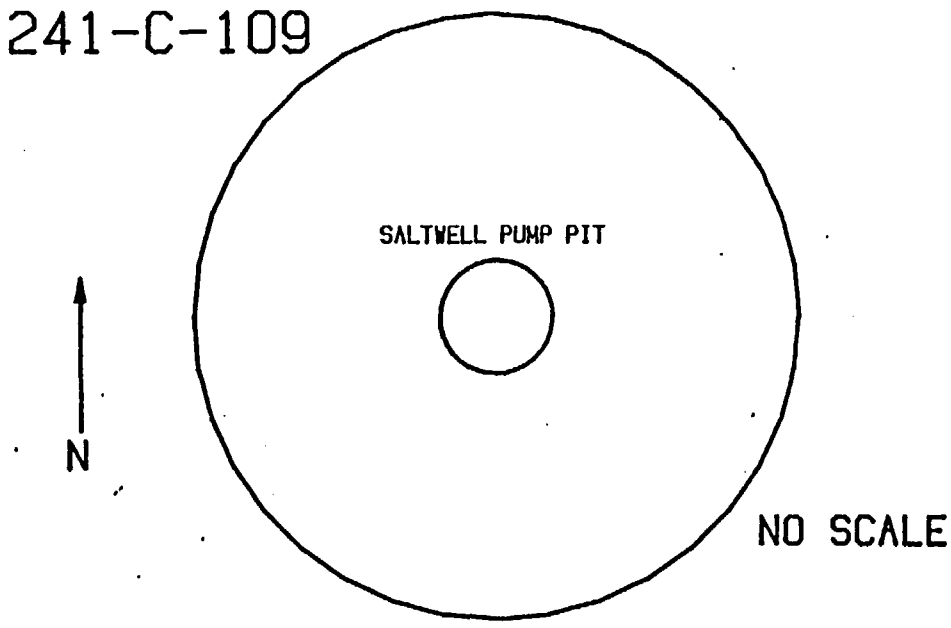
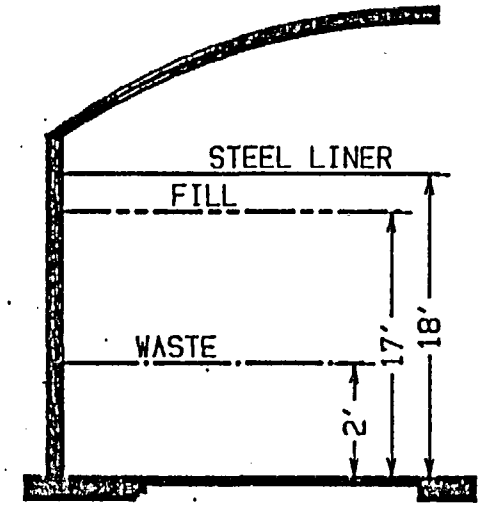
PRELIMINARY DATA

C-109 TANK DETAILED DESCRIPTION

241-C-109





DESCRIPTION: 532-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 12% FULL DUE TO WASTE TRANSFERS SINCE 1952. THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SLUDGE AND LIQUOR.

VOLUME :	68 KGALS
TRU :	0 Ci
Sr90 :	15 Ci
Cs137 :	6980 Ci
Tc99 :	1 Ci
Pu241 :	0 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

EPA TOUR BOOK
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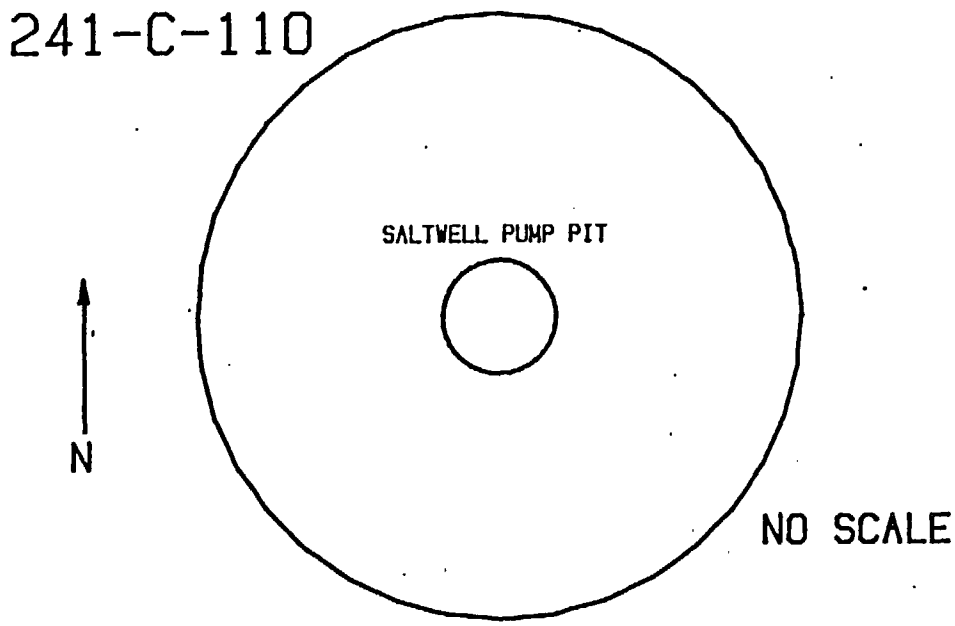
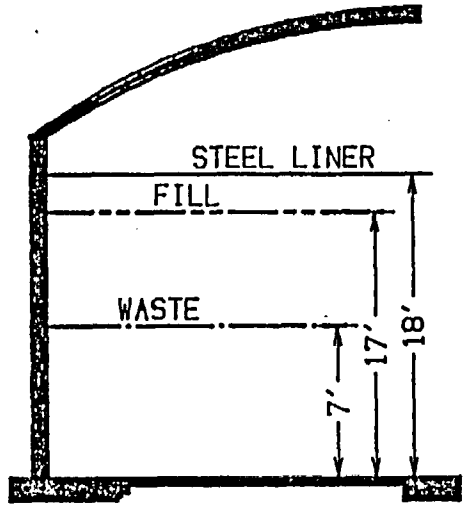
PRELIMINARY DATA

C-110 TANK DETAILED DESCRIPTION





DESCRIPTION: 532-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 42% FULL DUE TO WASTE TRANSFERS SINCE 1946.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SLUDGE AND LIQUOR.

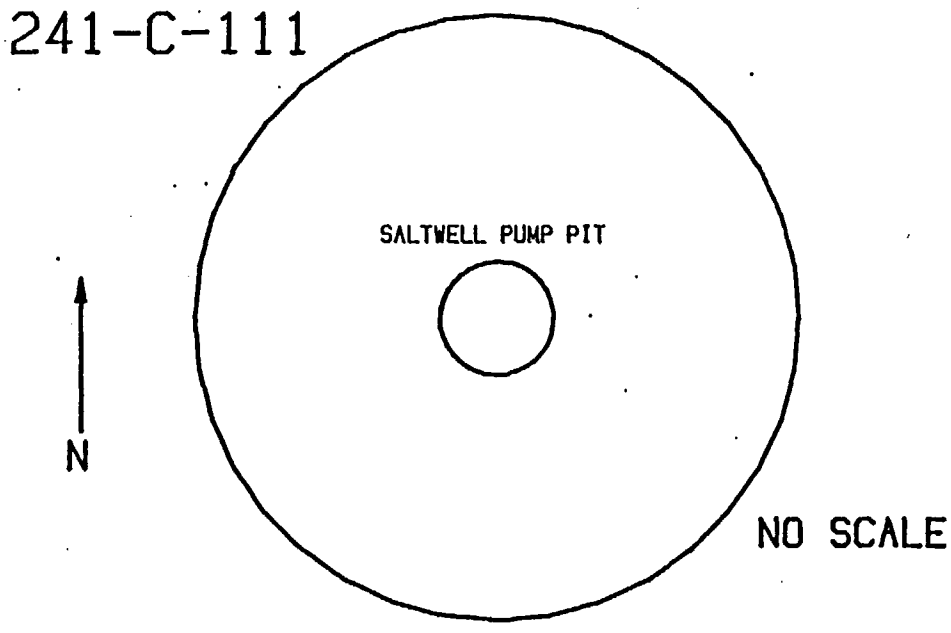
VOLUME :	225 KGALS
TRU :	9 Ci
Sr90 :	10300 Ci
Cs137 :	4370 Ci
Tc99 :	12 Ci
Pu241 :	1 Ci

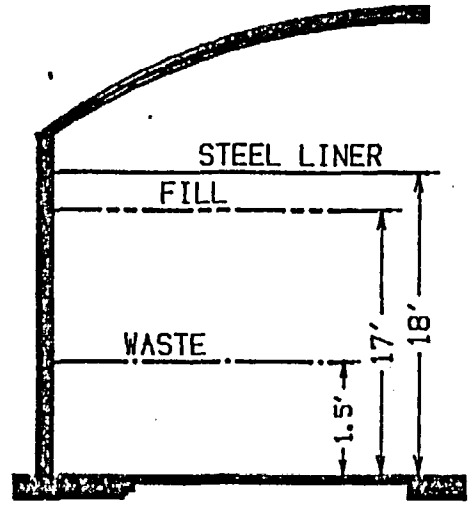
)83);
PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

EPA TOUR BOOK
Sec.C, Pg. 62

PRELIMINARY DATA

C-111 TANK DETAILED DESCRIPTION





DESCRIPTION: 532-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 10% FULL DUE TO WASTE TRANSFERS SINCE 1946. THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED SLUDGE.

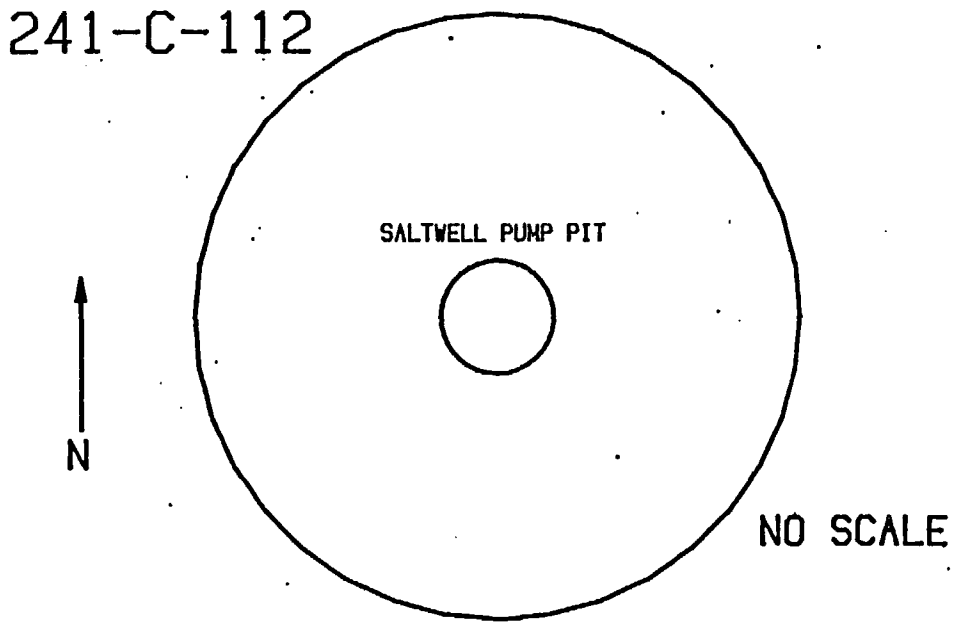
VOLUME :	57 KGALS
TRU :	243 Ci
Sr90 :	61700 Ci
Cs137 :	5030 Ci
Tc99 :	1 Ci
Pu241 :	447 Ci

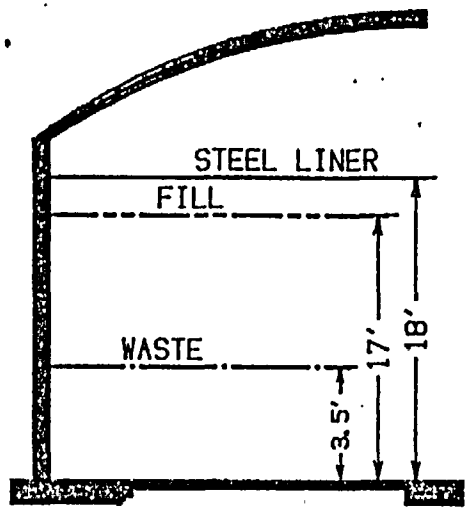
PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

EPA TOUR BOOK
Sec.C, Pg. 63

PRELIMINARY DATA

C-112 TANK DETAILED DESCRIPTION





DESCRIPTION: 532-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 21% FULL DUE TO WASTE TRANSFERS SINCE 1952.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SLUDGE AND LIQUOR.

VOLUME :	114 KGALS
TRU :	61 Ci
Sr90 :	33200 Ci
Cs137 :	13300 Ci
Tc99 :	19 Ci
Pu241 :	137 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

EPA TOUR BOOK
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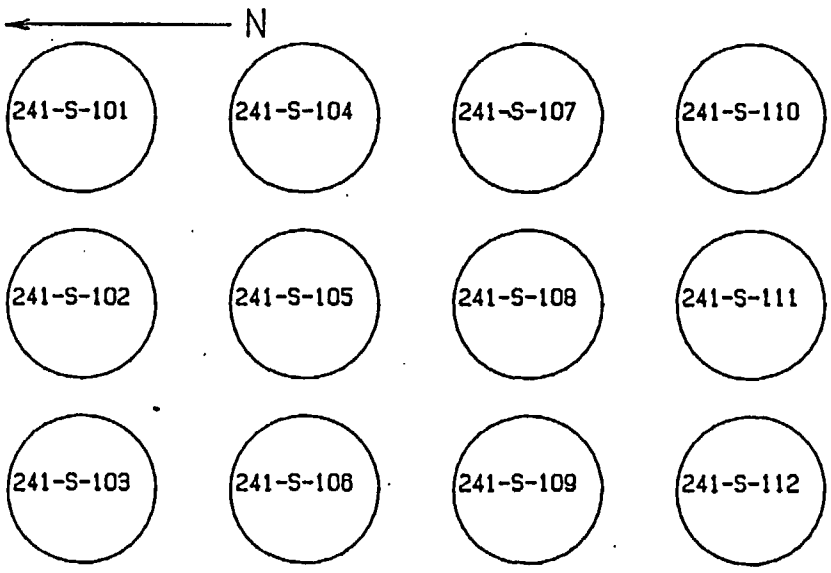
PRELIMINARY DATA

241— S TANK FARM SUMMARY



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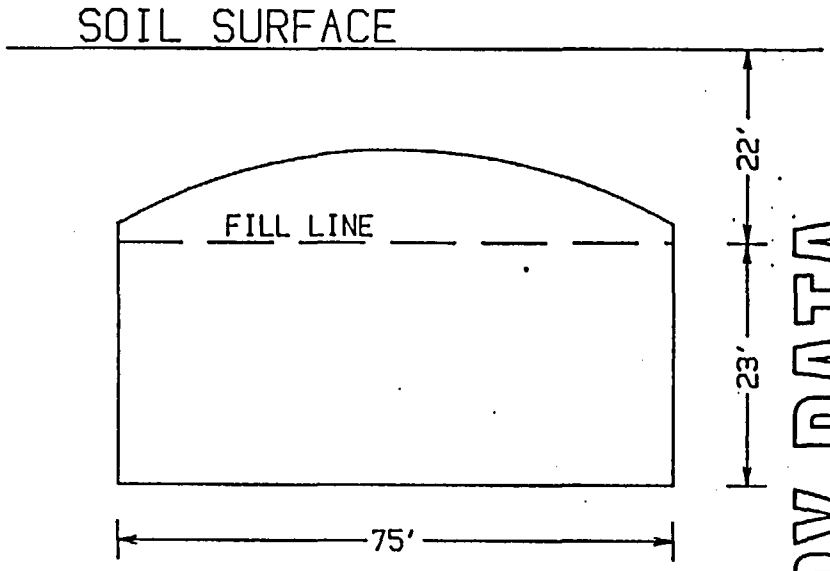
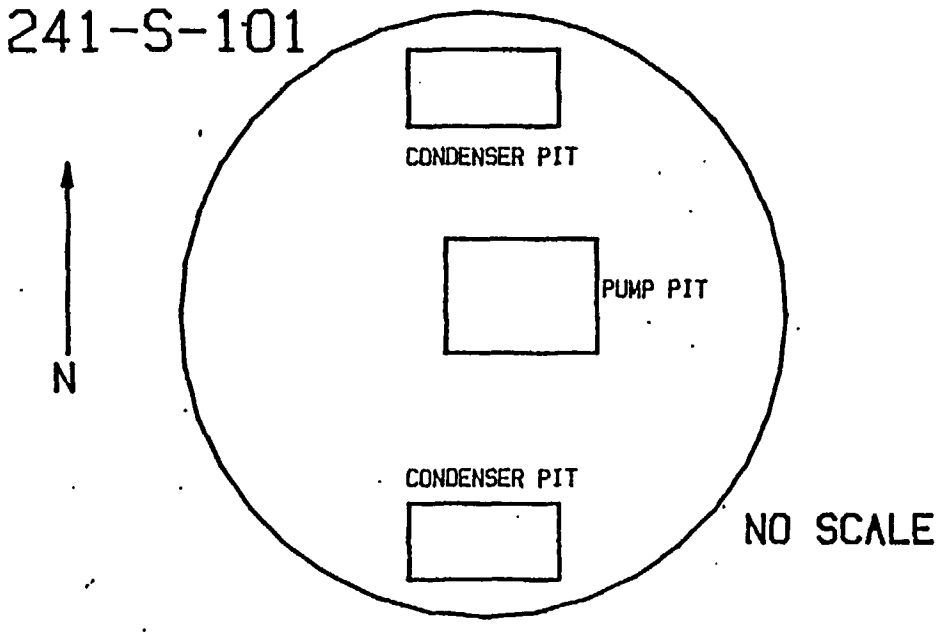


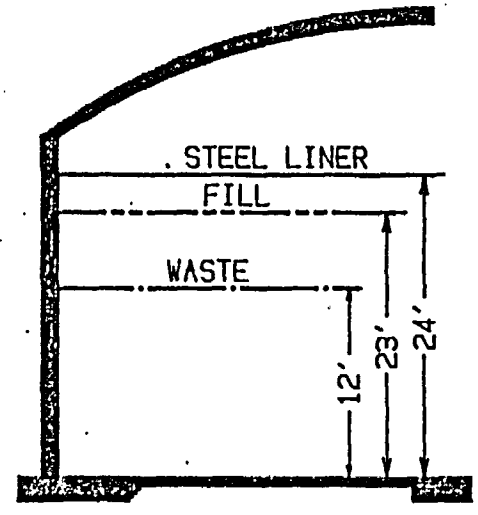
TANK NAME	FILL FRACTION	COMPLEXANT MOLES	HEAT GENERATION BTU/hr	TRU Ci	TRU NCi/g
S-101	0.53	1025	20538	496	217
S-102	0.53	101	1662	21	9
S-103	0.26	0	0	14	12
S-104	0.42	0	13664	249	137
S-105	0.48	0	1628	17	8
S-106	0.54	0	219	0	0
S-107	0.48	51	23568	1621	789
S-108	0.58	980	8211	184	73
S-109	0.55	1512	3478	89	37
S-110	0.71	2042	11565	379	123
S-111	0.63	2524	20342	445	164
S-112	0.61	367	1974	51	19

PRELIMINARY DATA

PRE-DISPOSAL TANK STATE APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

S-101 TANK DETAILED DESCRIPTION





DESCRIPTION: 758-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 53% FULL DUE TO WASTE TRANSFERS SINCE 1953.
THE WASTE WILL BE A HIGH HEAT, COMPLEXED MIXTURE OF SALTCAKE, SLUDGE AND LIQUOR.

VOLUME :	405 KGALS
TRU :	496 Ci
Sr90 :	758708 Ci
Cs137 :	169791 Ci
Tc99 :	148 Ci
Pu241 :	509 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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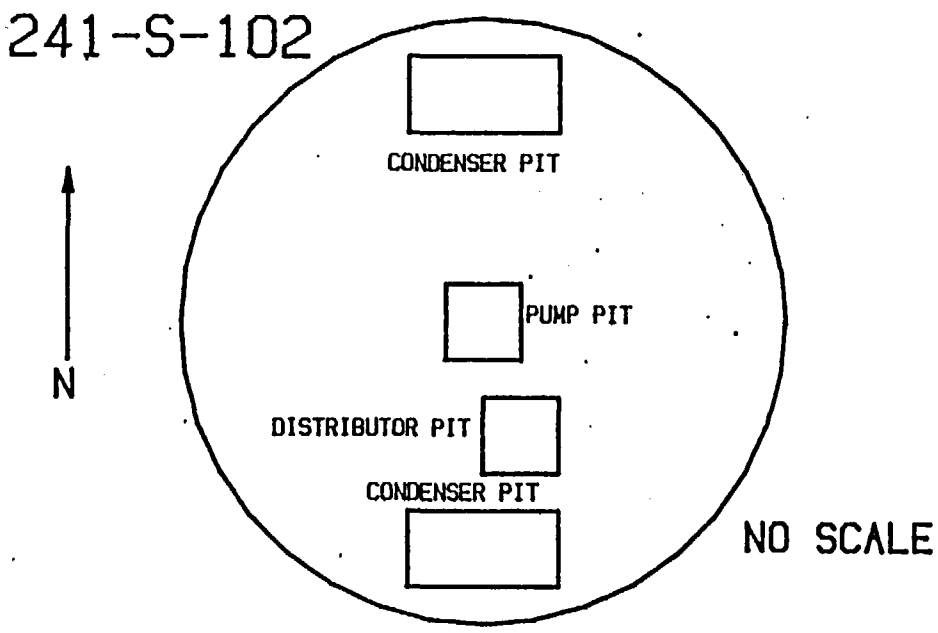
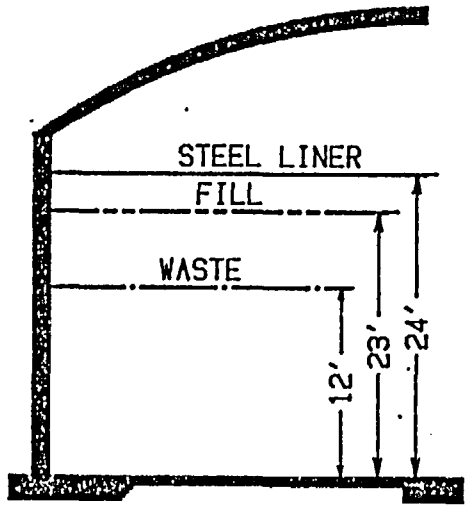
PRELIMINARY DATA

S-102 TANK DETAILED DESCRIPTION





DESCRIPTION: 758-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 53% FULL DUE TO WASTE TRANSFERS SINCE 1953. THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SALTCAKE, SLUDGE AND LIQUOR.

VOLUME :	408 KGALS
TRU :	21 Ci
Sr90 :	63769 Ci
Cs137 :	10369 Ci
Tc99 :	7 Ci
Pu241 :	14 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985: MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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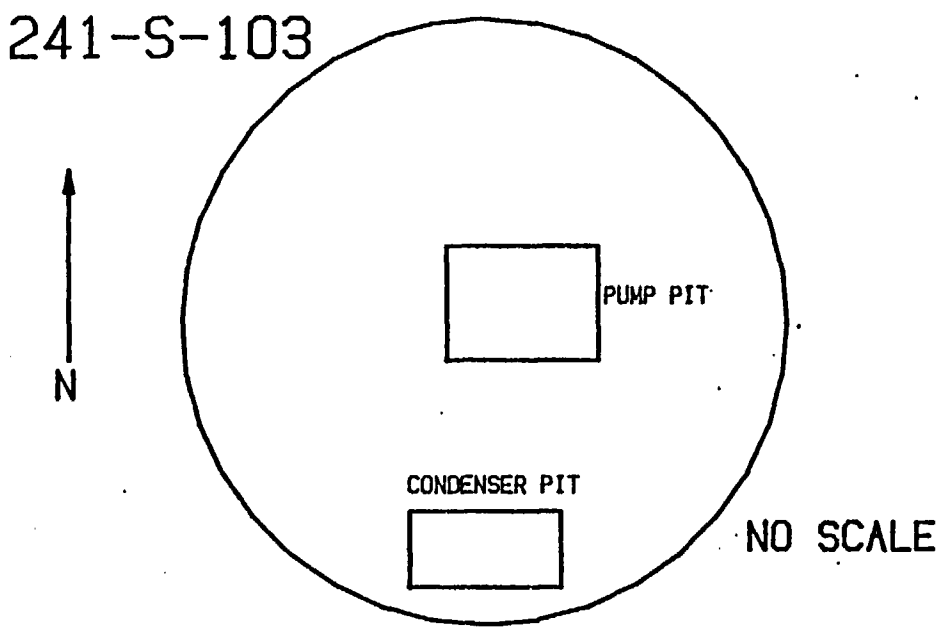
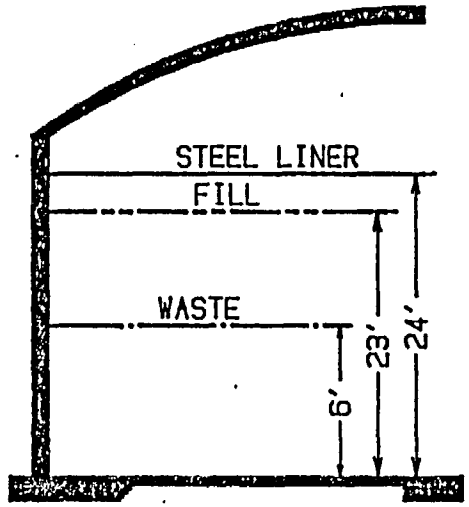
PRELIMINARY DATA

S-103 TANK DETAILED DESCRIPTION





DESCRIPTION: 758-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 26% FULL DUE TO WASTE TRANSFERS SINCE 1955.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SALTCAKE, SLUDGE AND LIQUOR.

VOLUME :	203 KGALS
TRU :	14 Ci
Sr90 :	0 Ci
Cs137 :	0 Ci
Tc99 :	0 Ci
Pu241 :	18 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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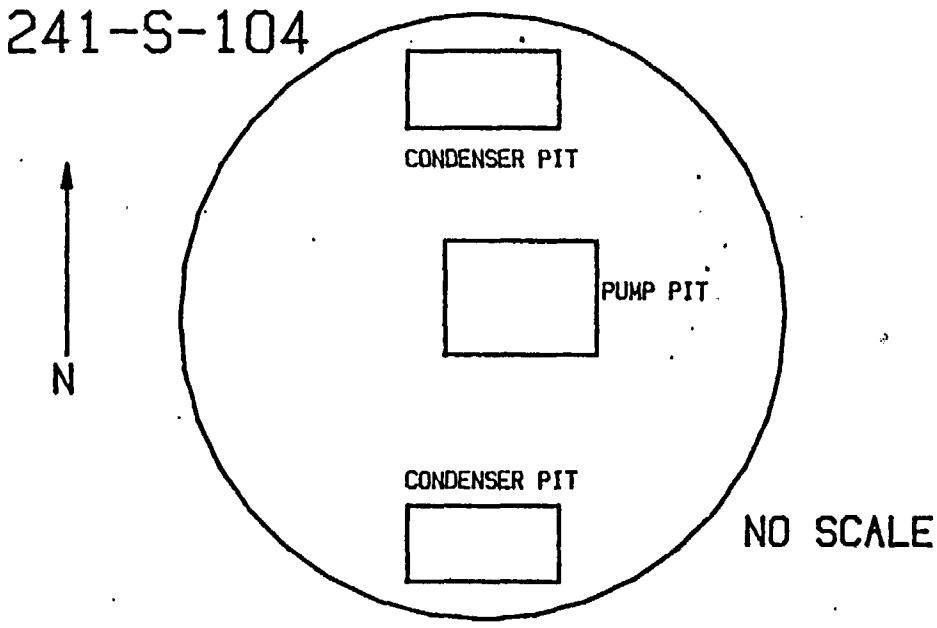
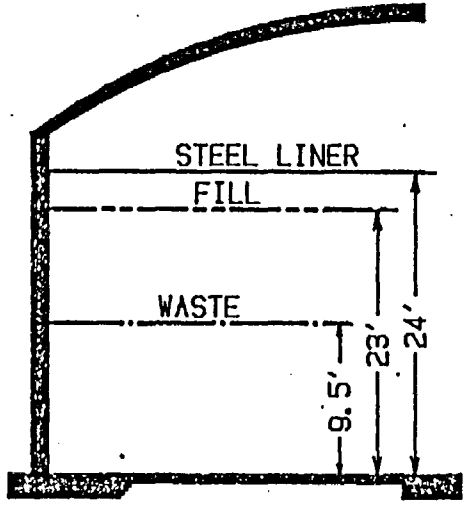
PRELIMINARY DATA

S-104 TANK DETAILED DESCRIPTION





PRELIMINARY DATA

DESCRIPTION: 758-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 42% FULL DUE TO WASTE TRANSFERS SINCE 1952.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SLUDGE AND LIQUOR.

VOLUME :	322 KGALS
TRU :	249 Ci
Sr90 :	566000 Ci
Cs137 :	25600 Ci
Tc99 :	6 Ci
Pu241 :	310 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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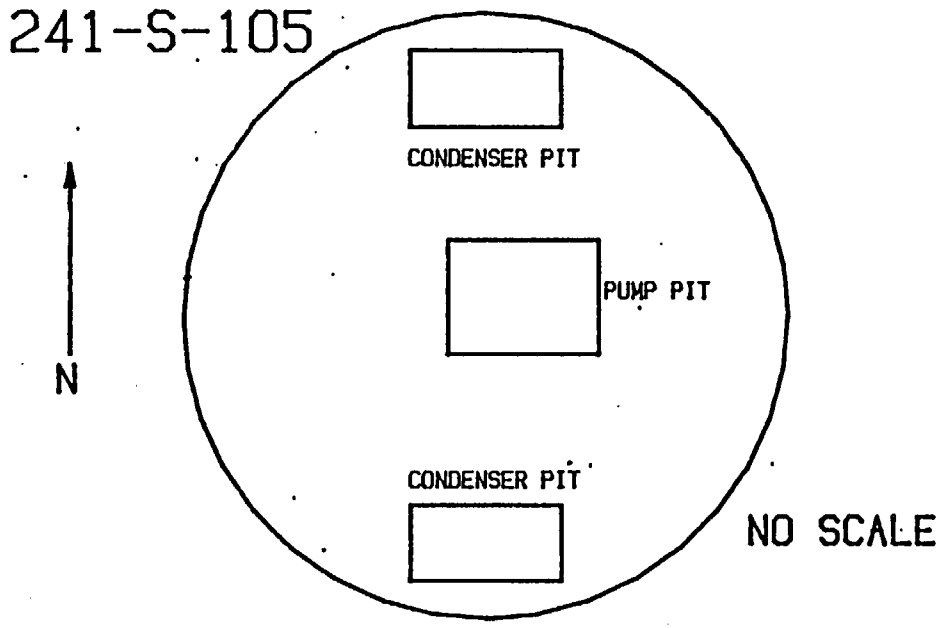
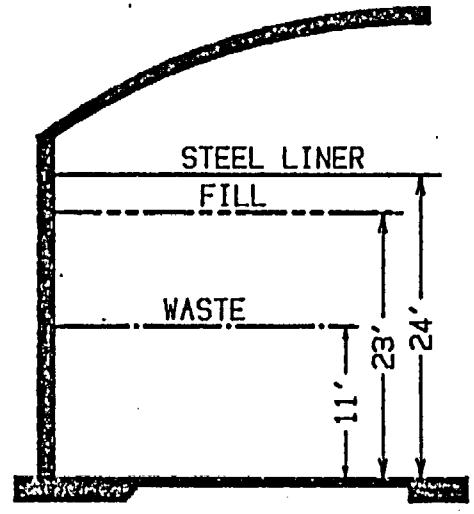
S-105 TANK DETAILED DESCRIPTION





PRELIMINARY DATA

DESCRIPTION: 758-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 48% FULL DUE TO WASTE TRANSFERS SINCE 1953.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SALTCAKE, SLUDGE AND LIQUOR.

VOLUME :	367 KGALS
TRU :	17 Ci
Sr90 :	49504 Ci
Cs137 :	28676 Ci
Tc99 :	7 Ci
Pu241 :	17 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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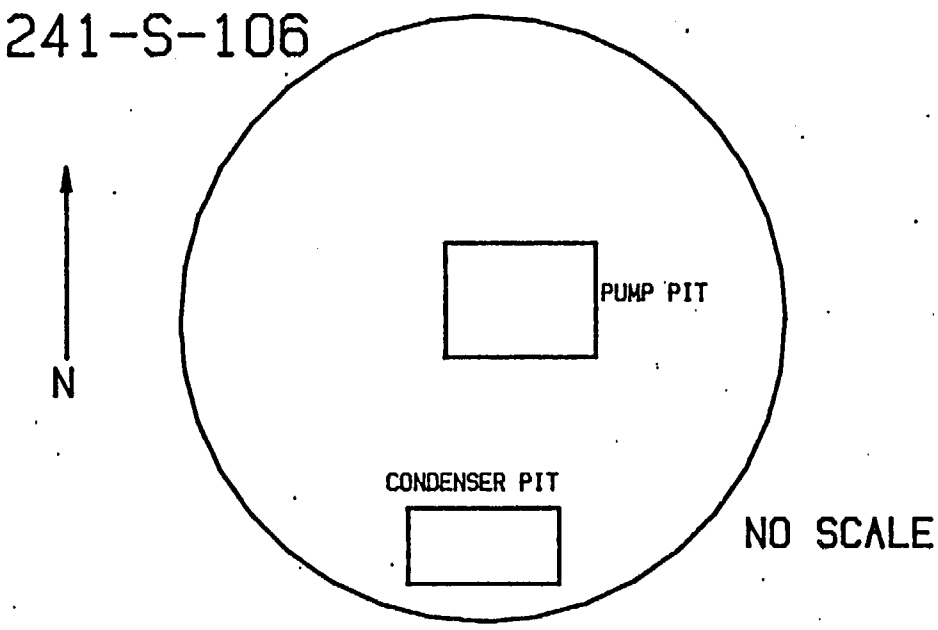
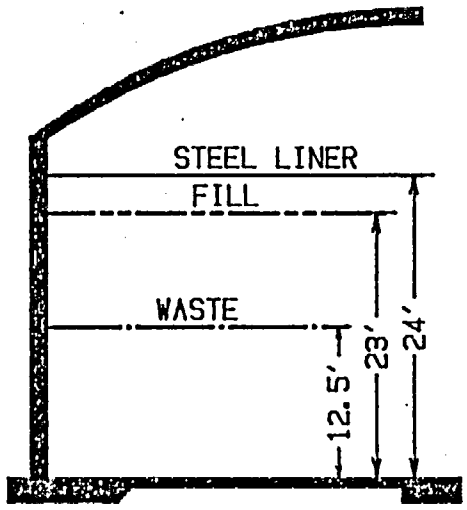
S-106 TANK DETAILED DESCRIPTION





DESCRIPTION: 758-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 54% FULL DUE TO WASTE TRANSFERS SINCE 1955.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SALTCAKE, SLUDGE AND LIQUOR.

VOLUME :	414 KGALS
TRU :	0 Ci
Sr90 :	4593 Ci
Cs137 :	6822 Ci
Tc99 :	1 Ci
Pu241 :	0 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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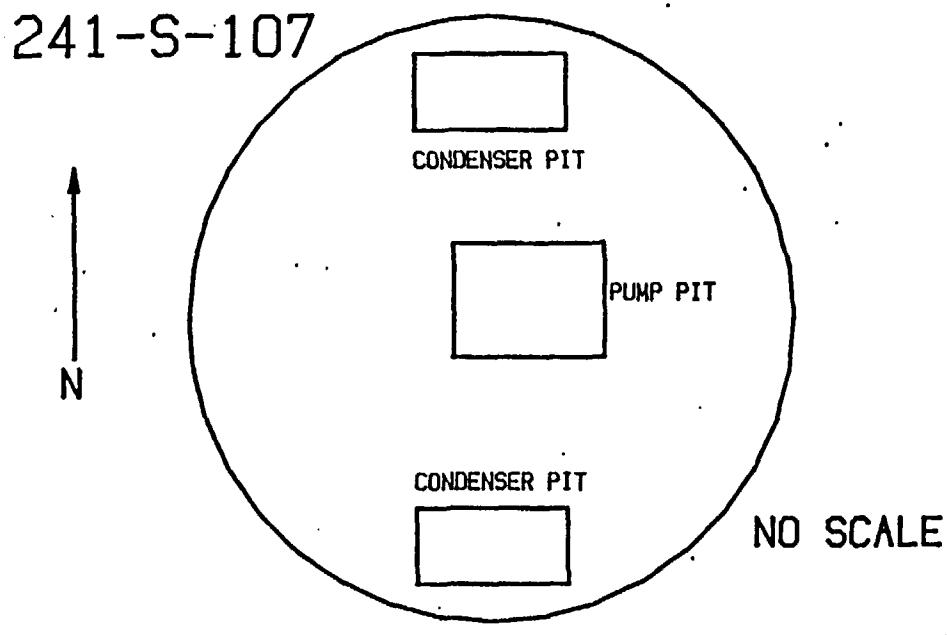
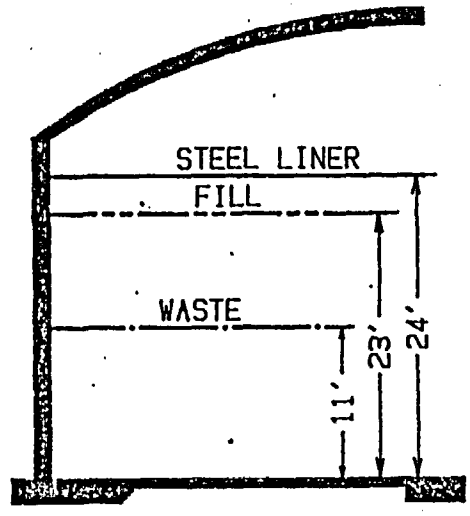
PRELIMINARY DATA

S-107 TANK DETAILED DESCRIPTION





PRELIMINARY DATA

DESCRIPTION: 758-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 48% FULL DUE TO WASTE TRANSFERS SINCE 1952.
THE WASTE WILL BE A HIGH HEAT, NON-COMPLEXED MIXTURE OF SALTCAKE, SLUDGE AND LIQUOR.

VOLUME :	364 KGALS
TRU :	1621 Ci
Sr90 :	1000000 Ci
Cs137 :	10300 Ci
Tc99 :	20 Ci
Pu241 :	3410 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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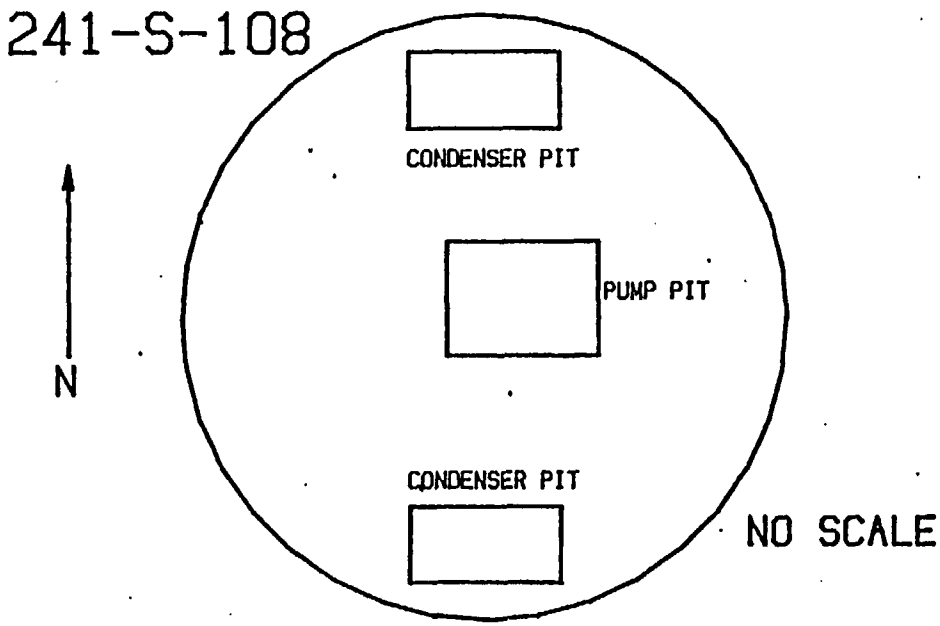
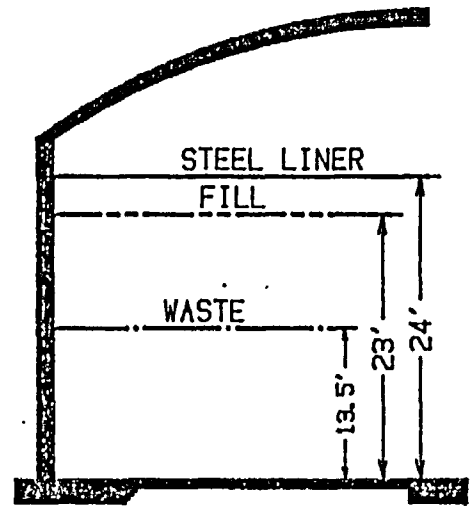
S-108 TANK DETAILED DESCRIPTION





DESCRIPTION: 758-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 58% FULL DUE TO WASTE TRANSFERS SINCE 1952.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SALTCAKE, SLUDGE AND LIQUOR.

VOLUME :	444 KGALS
TRU :	184 Ci
Sr90 :	258503 Ci
Cs137 :	131889 Ci
Tc99 :	160 Ci
Pu241 :	10 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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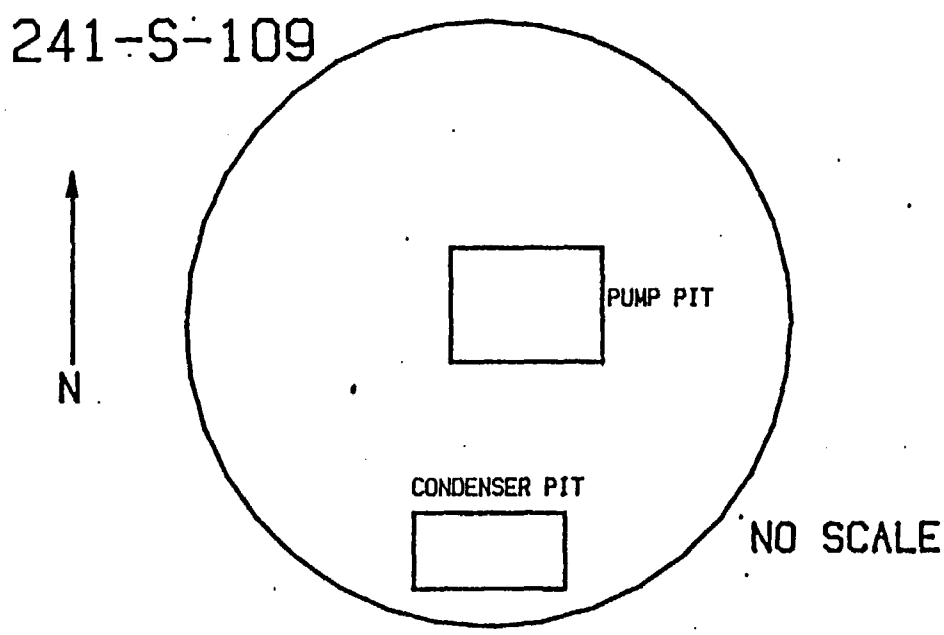
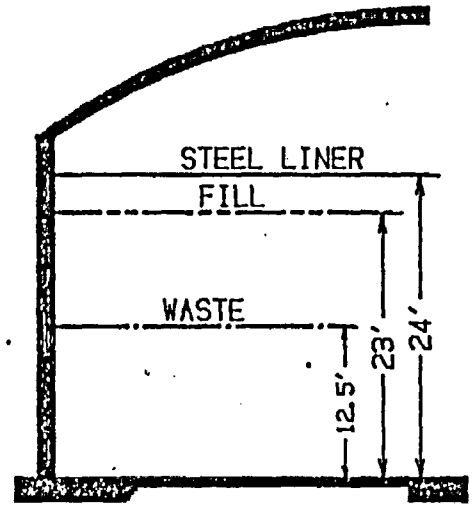
PRELIMINARY DATA

S-109 TANK DETAILED DESCRIPTION





PRELIMINARY DATA

DESCRIPTION: 758-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 55% FULL DUE TO WASTE TRANSFERS SINCE 1974.
THE WASTE WILL BE A LOW HEAT, COMPLEXED MIXTURE OF SALTCAKE, SLUDGE AND LIQUOR.

VOLUME :	423 KGALS
TRU :	88 Ci
Sr90 :	90212 Ci
Cs137 :	83404 Ci
Tc99 :	94 Ci
Pu241 :	1 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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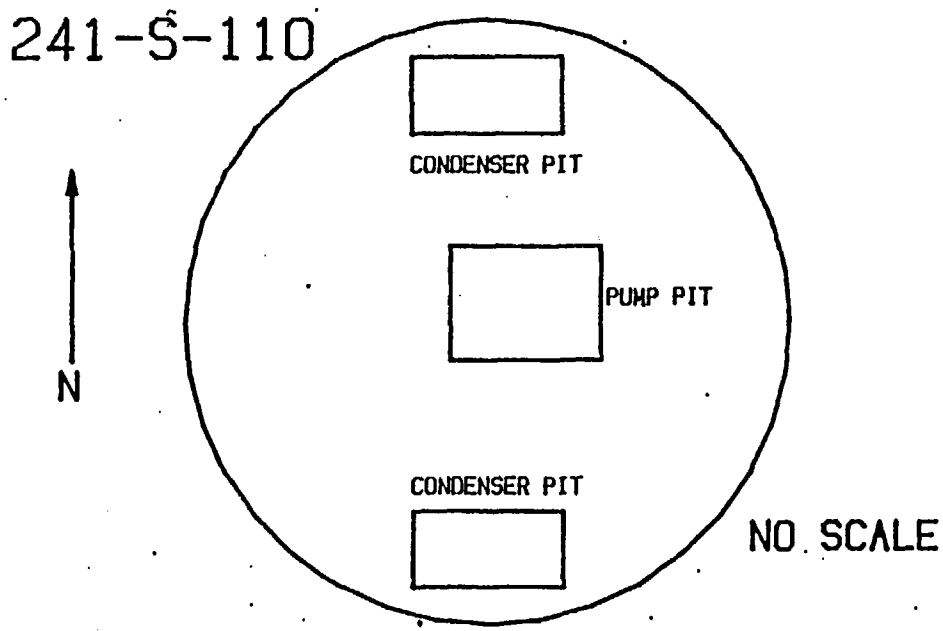
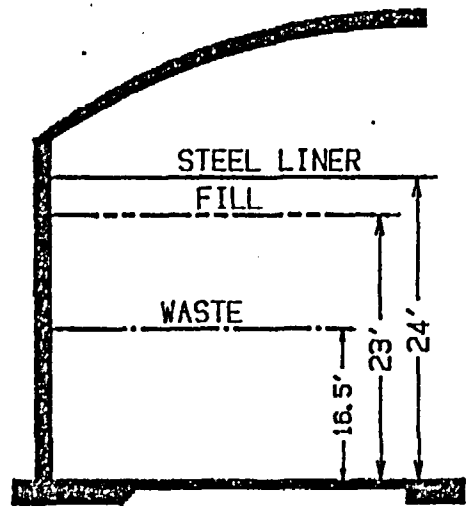
S-110 TANK DETAILED DESCRIPTION





DESCRIPTION: 758-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 71% FULL DUE TO WASTE TRANSFERS SINCE 1952. THE WASTE WILL BE A LOW HEAT, COMPLEXED MIXTURE OF SALTCAKE, SLUDGE AND LIQUOR.

VOLUME :	545 KGALS
TRU :	379 Ci
Sr90 :	243544 Ci
Cs137 :	357723 Ci
Tc99 :	410 Ci
Pu241 :	278 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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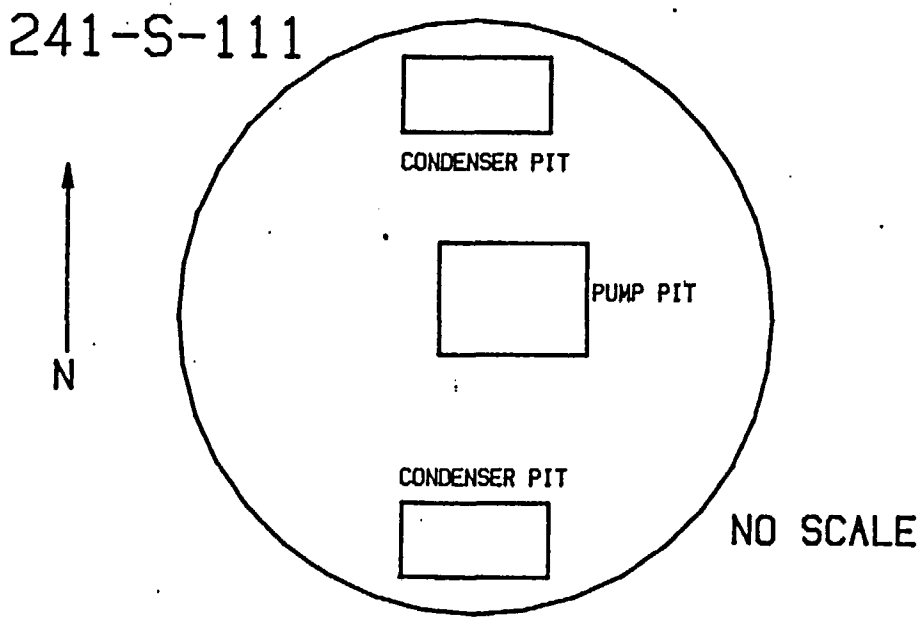
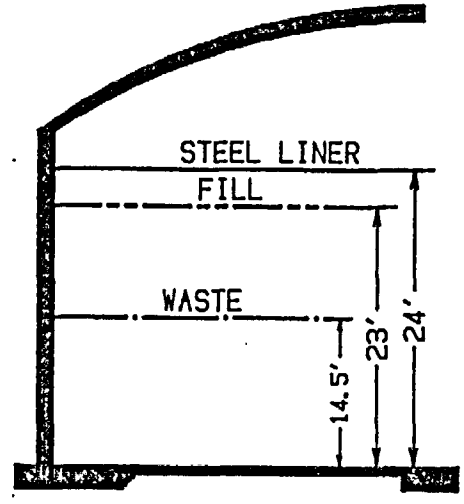
PRELIMINARY DATA

S-111 TANK DETAILED DESCRIPTION





DESCRIPTION: 758-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 63% FULL DUE TO WASTE TRANSFERS SINCE 1952.
THE WASTE WILL BE A HIGH HEAT, COMPLEXED MIXTURE OF SALTCAKE, SLUDGE AND LIQUOR.

VOLUME :	479 KGALS
TRU :	445 Ci
Sr90 :	614634 Ci
Cs137 :	363414 Ci
Tc99 :	368 Ci
Pu241 :	8 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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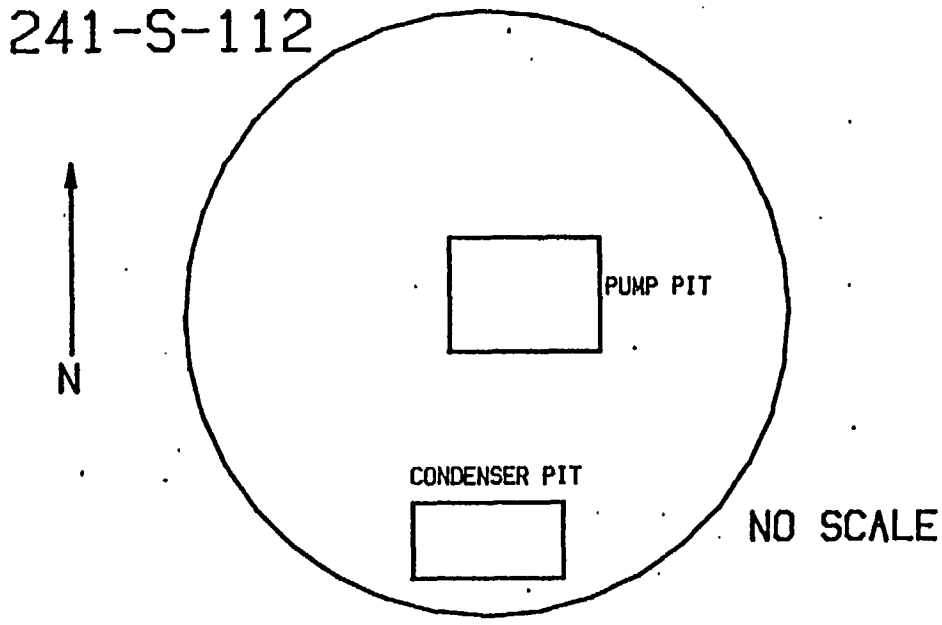
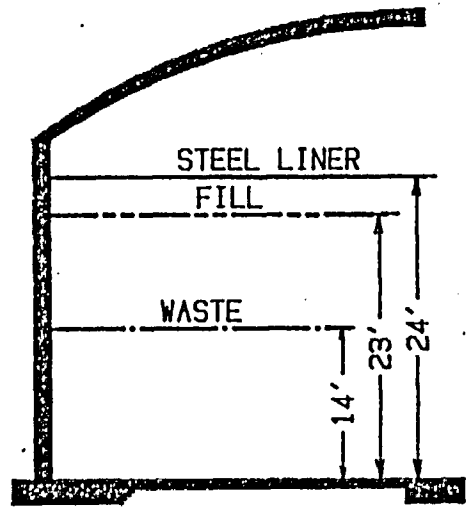
PRELIMINARY DATA

S-112 TANK DETAILED DESCRIPTION





PRELIMINARY DATA

DESCRIPTION: 758-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 61% FULL DUE TO WASTE TRANSFERS SINCE 1965. THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SALTCAKE, SLUDGE AND LIQUOR.

VOLUME :	466 KGALS
TRU :	51 Ci
Sr90 :	60037 Ci
Cs137 :	34758 Ci
Tc99 :	61 Ci
Pu241 :	0 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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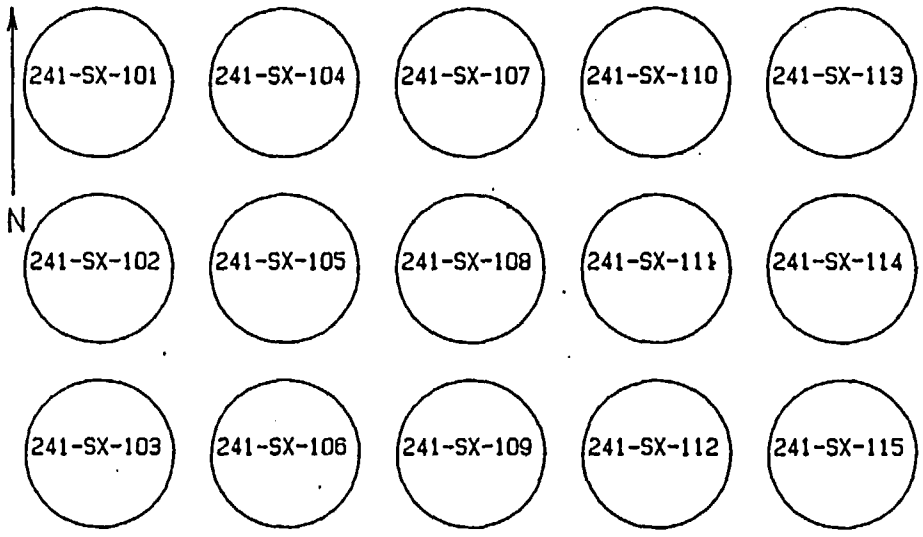
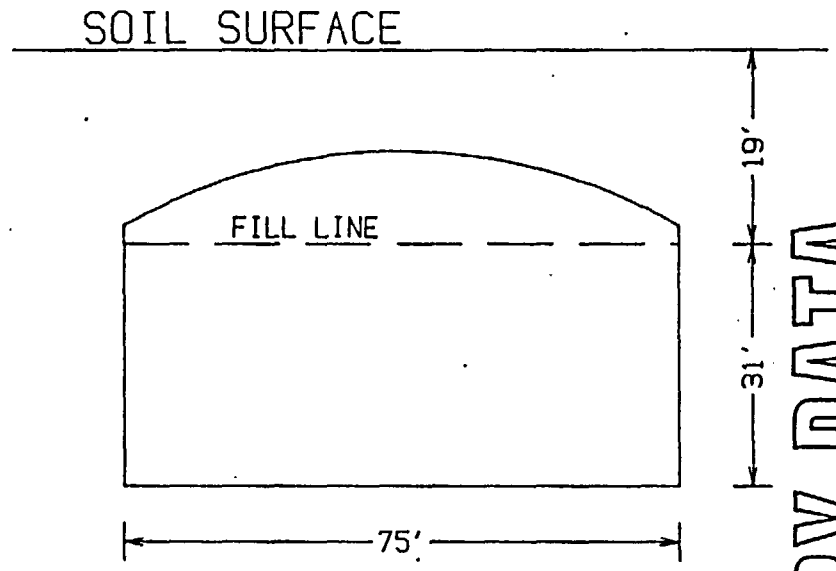
241- SX TANK FARM SUMMARY



NO SCALE

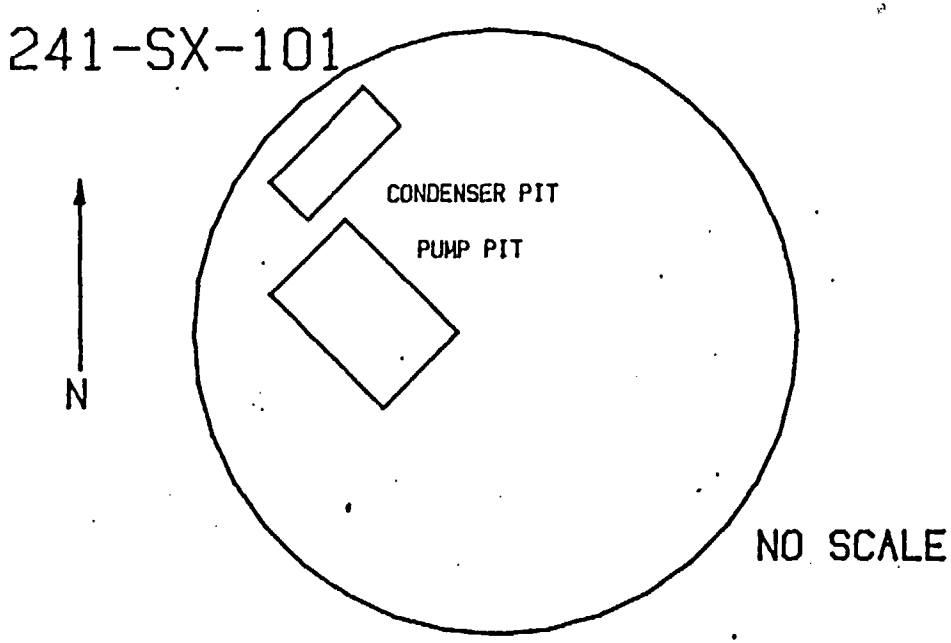


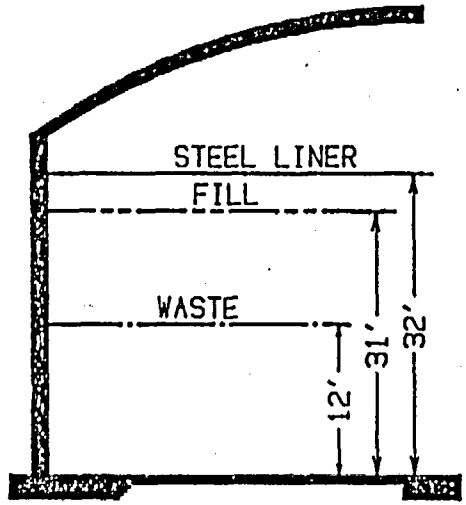
TANK NAME	FILL FRACTION	COMPLEXANT MOLES	HEAT GENERATION BTU/hr	TRU Ci	TRU NCi/g
SX-101	0.38	1	4	125	57
SX-102	0.44	0	5920	1342	536
SX-103	0.50	48	2760	68	24
SX-104	0.57	135	18069	259	80
SX-105	0.51	26	8384	133	45
SX-106	0.36	829	3181	89	43
SX-107	0.10	0	57096	744	1206
SX-108	0.12	0	47034	612	894
SX-109	0.27	0	45831	478	310
SX-110	0.06	0	75816	971	2760
SX-111	0.13	0	61074	878	1176
SX-112	0.09	0	25661	265	492
SX-113	0.02	0	47665	95	644
SX-114	0.19	0	107406	1301	1181
SX-115	0.01	0	16848	210	3092

PRELIMINARY DATA

PRE-DISPOSAL TANK STATE APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

SX-101 TANK DETAILED DESCRIPTION





DESCRIPTION: 1000-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 38% FULL DUE TO WASTE TRANSFERS SINCE 1954.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SALTCAKE, SLUDGE AND LIQUOR.

VOLUME :	384 KGALS
TRU :	125 Ci
Sr90 :	91 Ci
Cs137 :	130 Ci
Tc99 :	0 Ci
Pu241 :	231 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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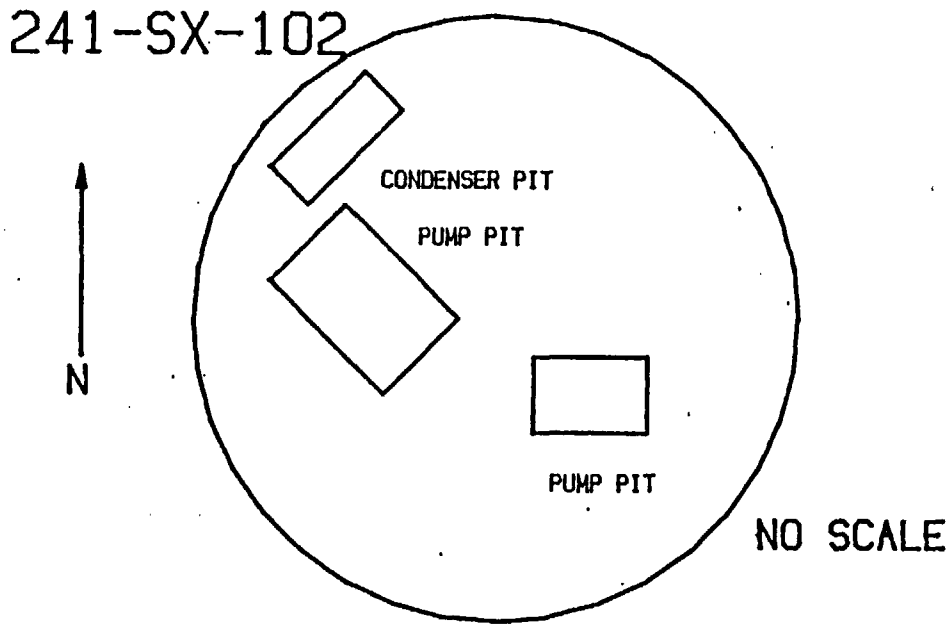
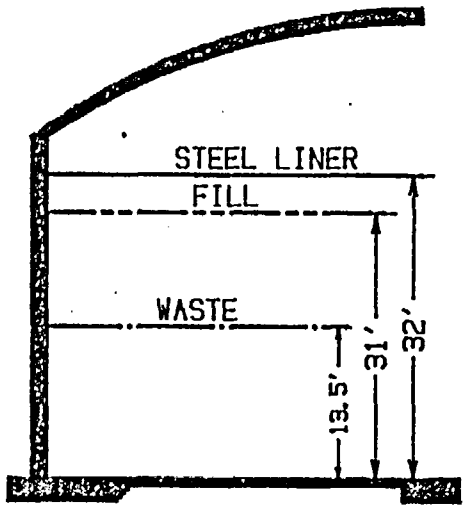
PRELIMINARY DATA

SX-102 TANK DETAILED DESCRIPTION





DESCRIPTION: 1000-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 44% FULL DUE TO WASTE TRANSFERS SINCE 1954.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SALTCAKE, SLUDGE AND LIQUOR.

VOLUME :	443 KGALS
TRU :	1342 Ci
Sr90 :	252999 Ci
Cs137 :	0 Ci
Tc99 :	0 Ci
Pu241 :	3130 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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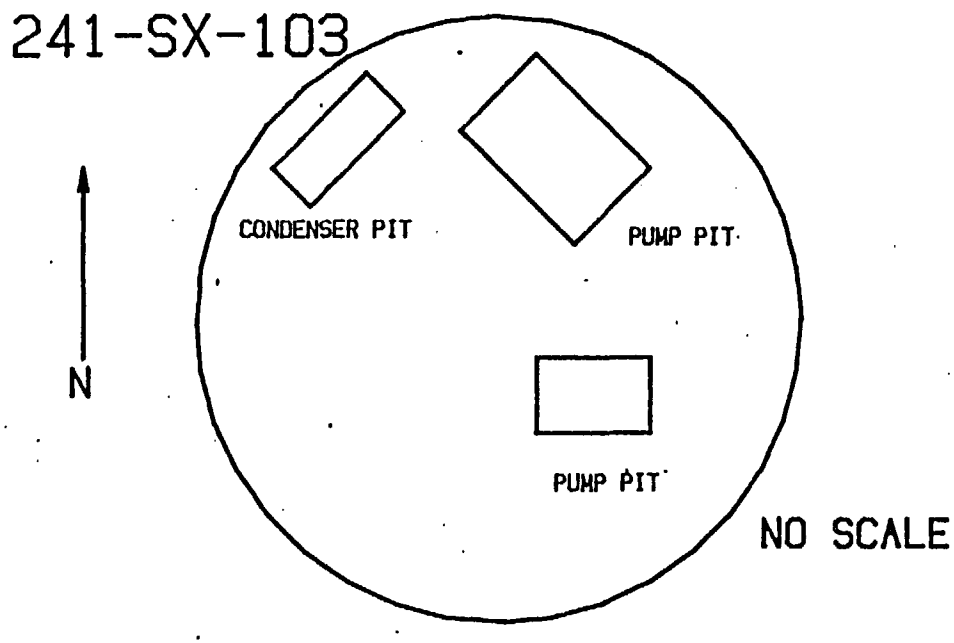
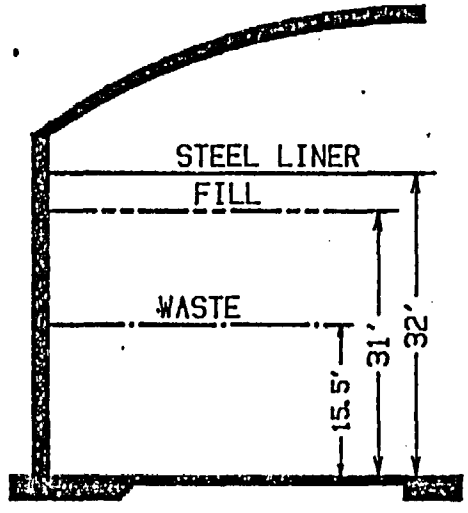
PRELIMINARY DATA

SX-103 TANK DETAILED DESCRIPTION





PRELIMINARY DATA

DESCRIPTION: 1000-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 50% FULL DUE TO WASTE TRANSFERS SINCE 1958.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SALTCAKE, SLUDGE AND LIQUOR.

VOLUME :	501 KGALS
TRU :	68 Ci
Sr90 :	95003 Ci
Cs137 :	32751 Ci
Tc99 :	37 Ci
Pu241 :	51 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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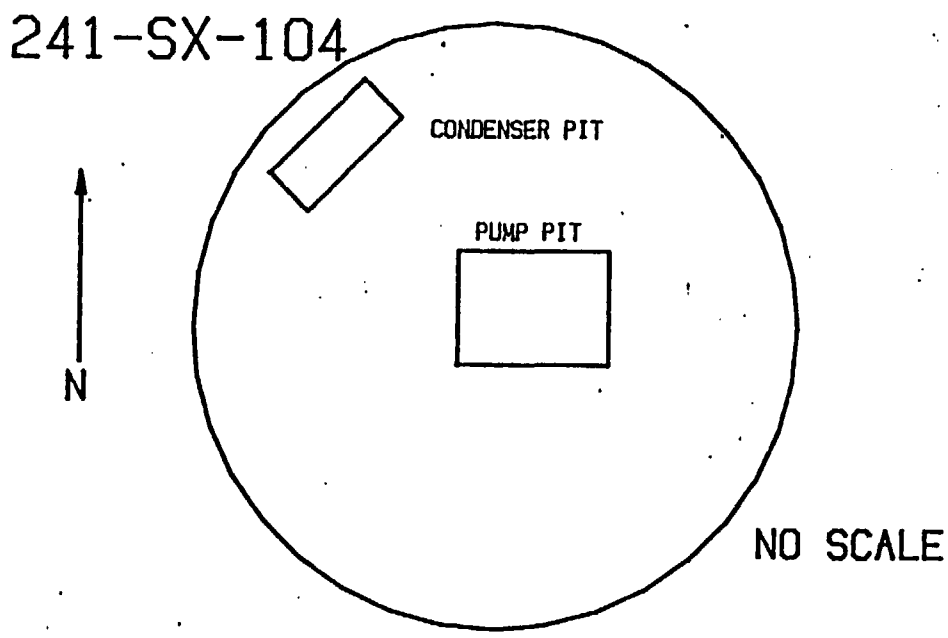
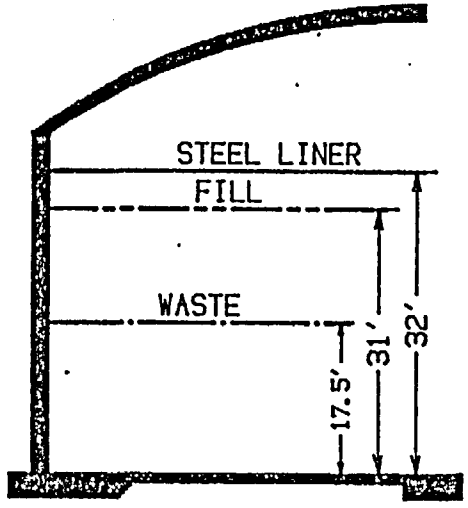
SX-104 TANK DETAILED DESCRIPTION





PRELIMINARY DATA

DESCRIPTION: 1000-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 57% FULL DUE TO WASTE TRANSFERS SINCE 1955.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SALTCAKE, SLUDGE AND LIQUOR.

VOLUME :	572 KGALS
TRU :	259 Ci
Sr90 :	755207 Ci
Cs137 :	24232 Ci
Tc99 :	18 Ci
Pu241 :	218 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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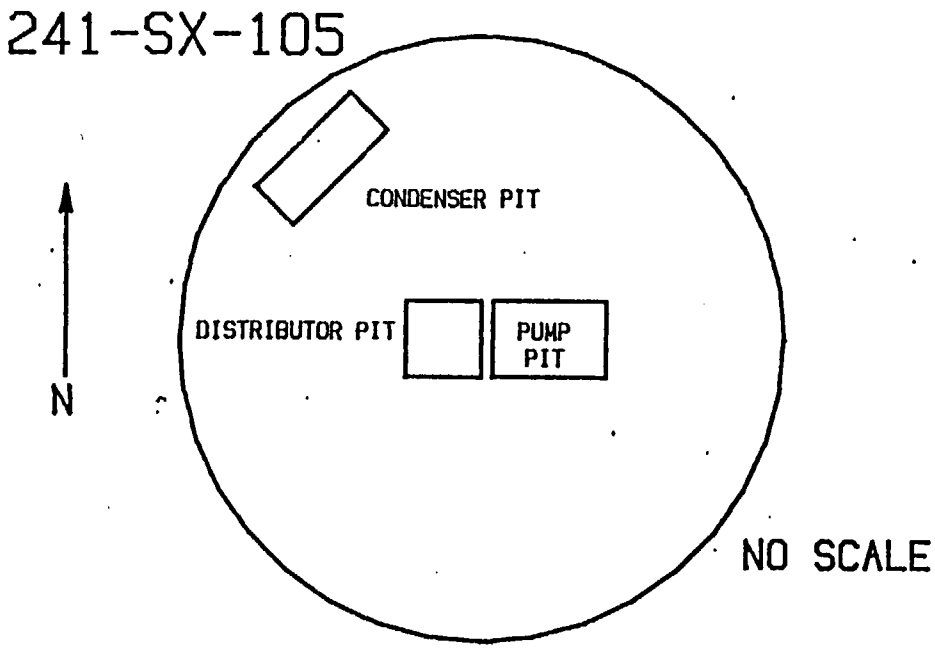
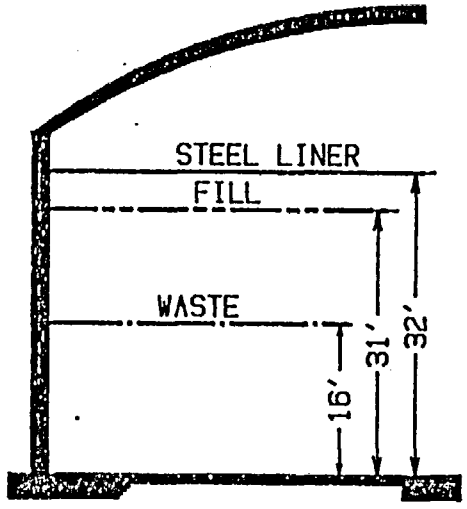
SX-105 TANK DETAILED DESCRIPTION





PRELIMINARY DATA

DESCRIPTION: 1000-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 51% FULL DUE TO WASTE TRANSFERS SINCE 1955. THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SALTCAKE, SLUDGE AND LIQUOR.

VOLUME :	519 KGALS
TRU :	133 Ci
Sr90 :	351567 Ci
Cs137 :	9597 Ci
Tc99 :	24 Ci
Pu241 :	126 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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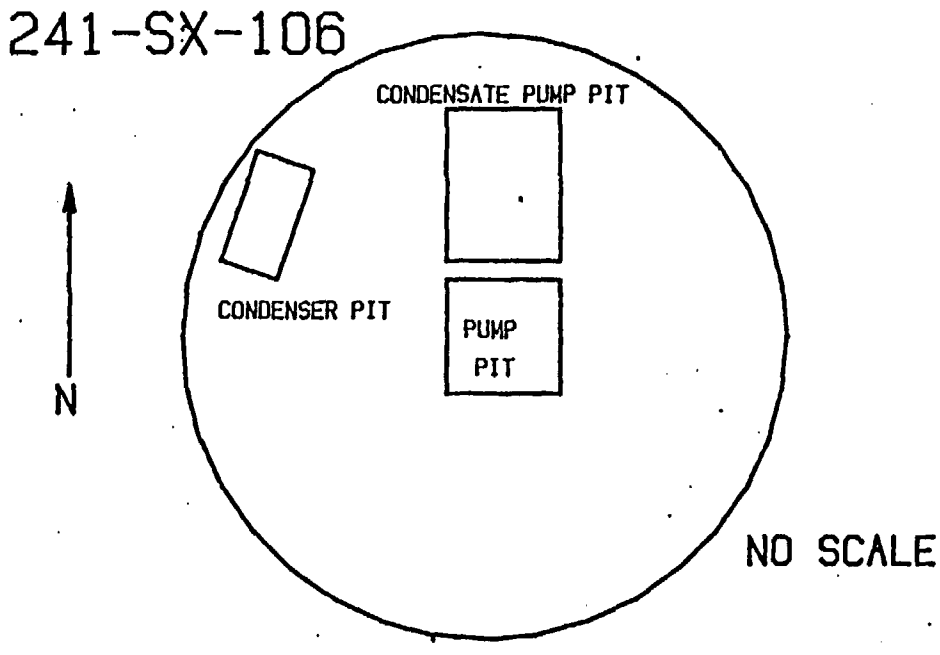
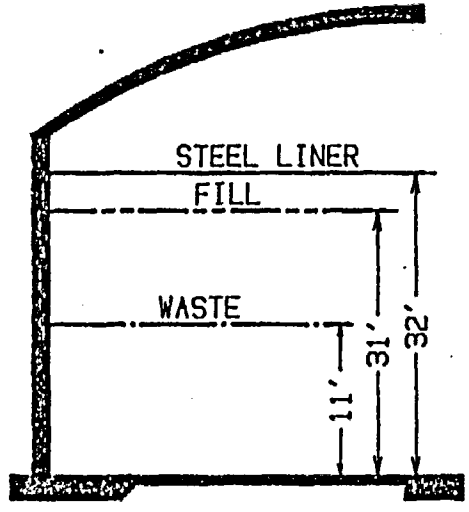
SX-106 TANK DETAILED DESCRIPTION





PRELIMINARY DATA

DESCRIPTION: 1000-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 36% FULL DUE TO WASTE TRANSFERS SINCE 1959.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SALTCAKE, SLUDGE AND LIQUOR.

VOLUME :	364 KGALS
TRU :	89 Ci
Sr90 :	103072 Ci
Cs137 :	46907 Ci
Tc99 :	66 Ci
Pu241 :	0 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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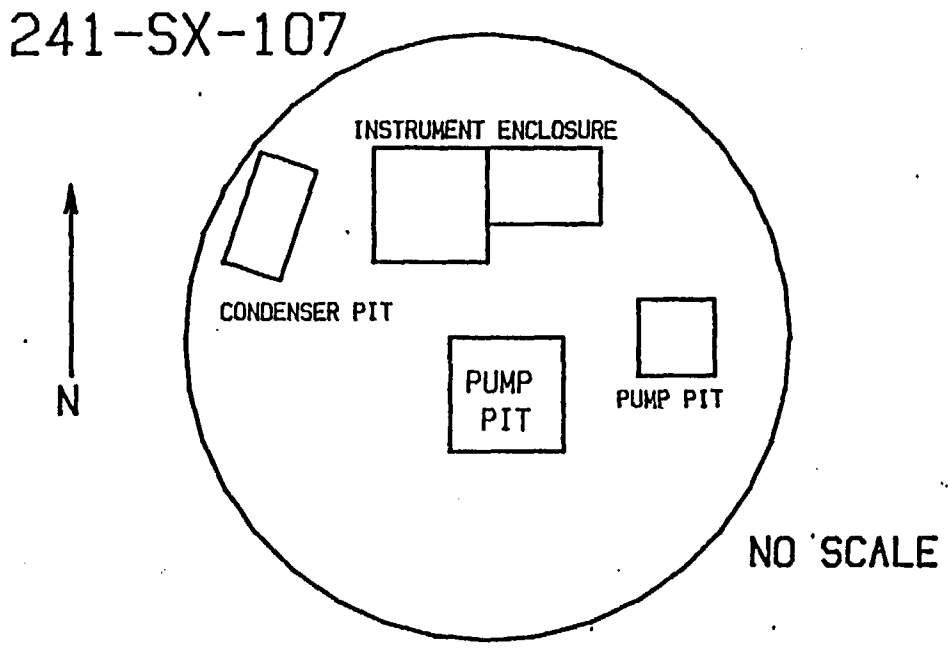
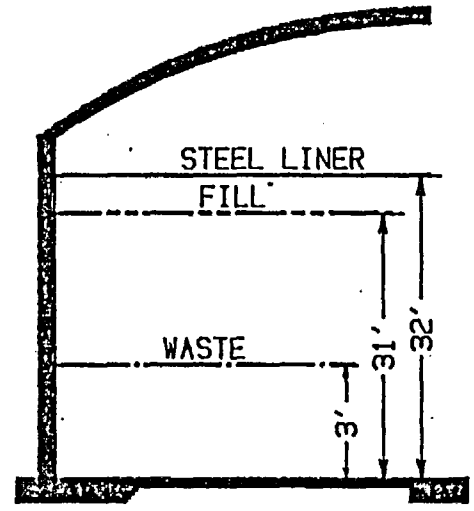
SX-107 TANK DETAILED DESCRIPTION





PRELIMINARY DATA

DESCRIPTION: 1000-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 10% FULL DUE TO WASTE TRANSFERS SINCE 1956.
THE WASTE WILL BE A HIGH HEAT, NON-COMPLEXED MIXTURE OF SLUDGE AND LIQUOR.

VOLUME :	109 KGALS
TRU :	744 Ci
Sr90 :	2440000 Ci
Cs137 :	0 Ci
Tc99 :	0 Ci
Pu241 :	595 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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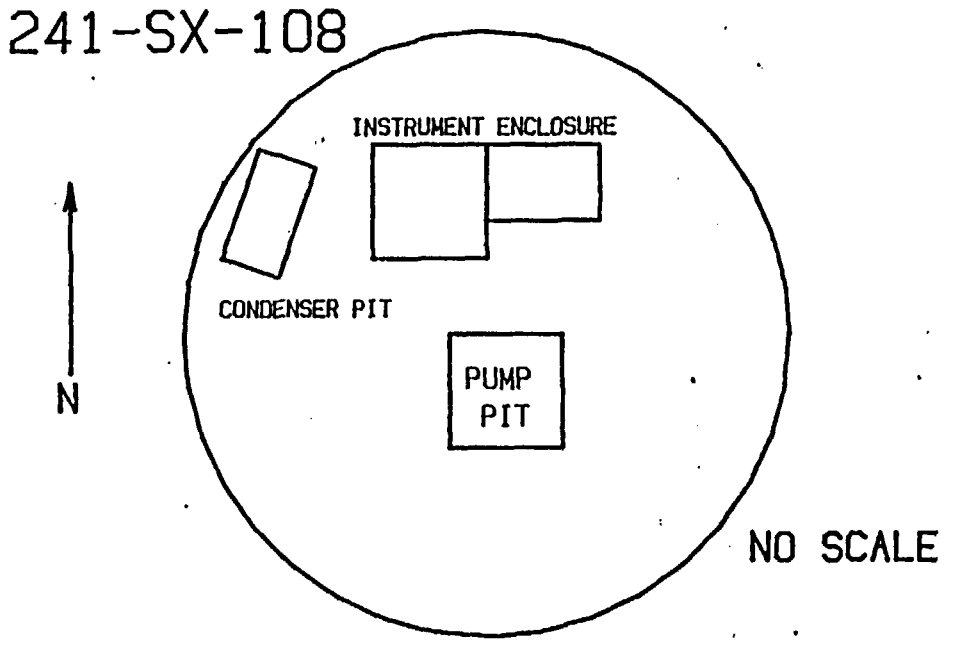
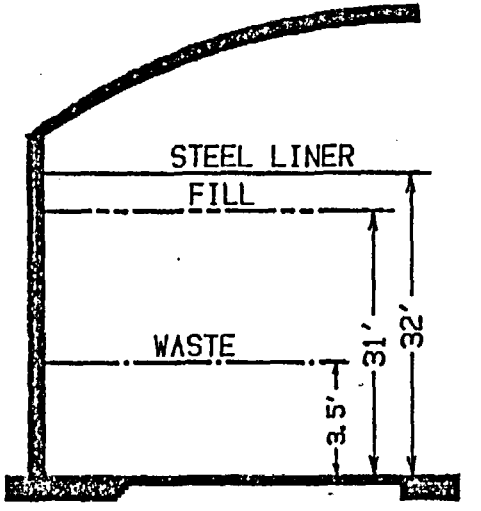
SX-108 TANK DETAILED DESCRIPTION





PRELIMINARY DATA

DESCRIPTION: 1000-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 12% FULL DUE TO WASTE TRANSFERS SINCE 1955.
THE WASTE WILL BE A HIGH HEAT, NON-COMPLEXED MIXTURE OF SLUDGE AND LIQUOR.

VOLUME :	121 KGALS
TRU :	612 Ci
Sr90 :	2010000 Ci
Cs137 :	0 Ci
Tc99 :	0 Ci
Pu241 :	494 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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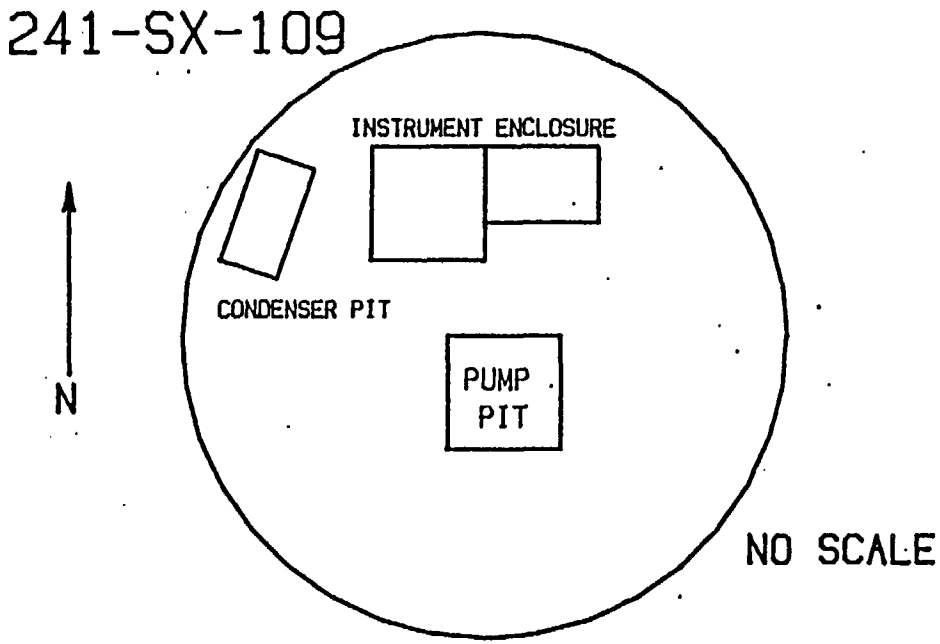
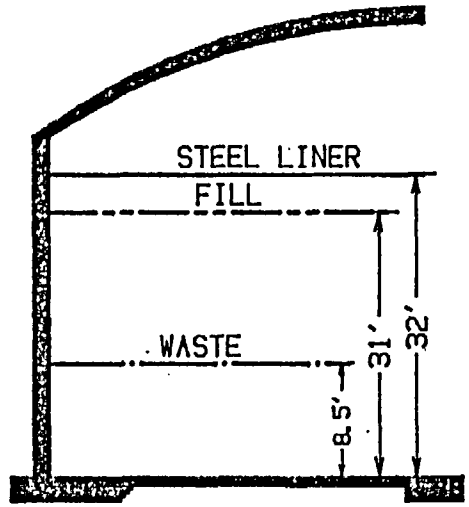
SX-109 TANK DETAILED DESCRIPTION





DESCRIPTION: 1000-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 27% FULL DUE TO WASTE TRANSFERS SINCE 1955.
THE WASTE WILL BE A HIGH HEAT, NON-COMPLEXED MIXTURE OF SLUDGE AND LIQUOR.

VOLUME :	273 KGALS
TRU :	478 Ci
Sr90 :	1700000 Ci
Cs137 :	369000 Ci
Tc99 :	77 Ci
Pu241 :	416 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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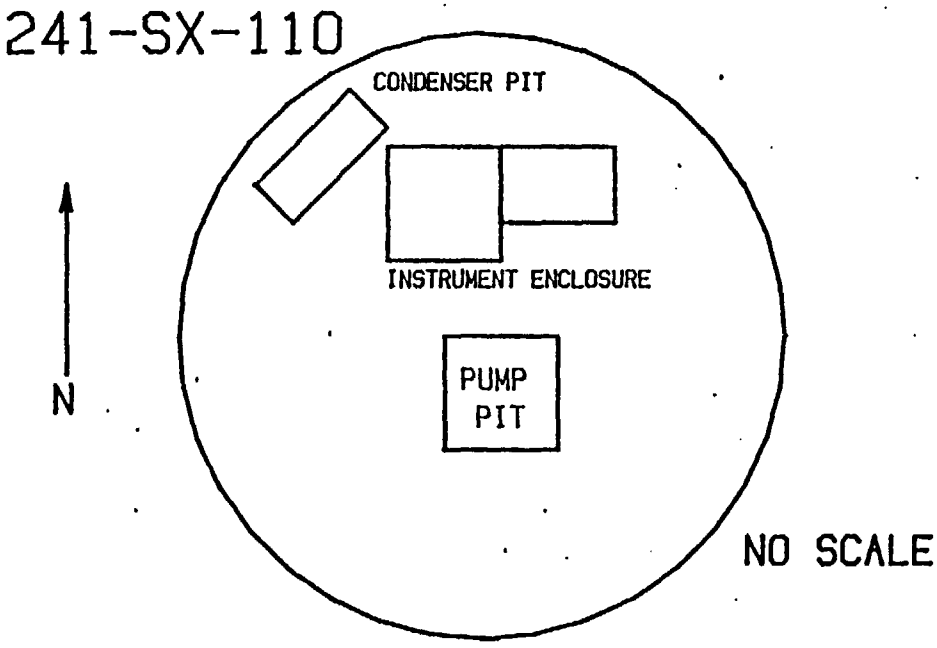
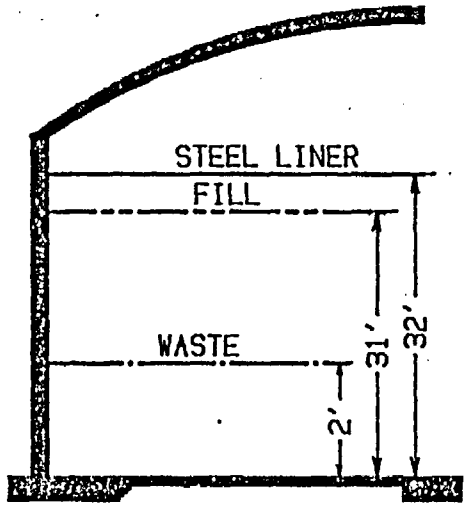
PRELIMINARY DATA

SX-110 TANK DETAILED DESCRIPTION





DESCRIPTION: 1000-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 6% FULL DUE TO WASTE TRANSFERS SINCE 1960.
THE WASTE WILL BE A HIGH HEAT, NON-COMPLEXED SLUDGE.

VOLUME :	62 KGALS
TRU :	971 Ci
Sr90 :	3240000 Ci
Cs137 :	0 Ci
Tc99 :	0 Ci
Pu241 :	816 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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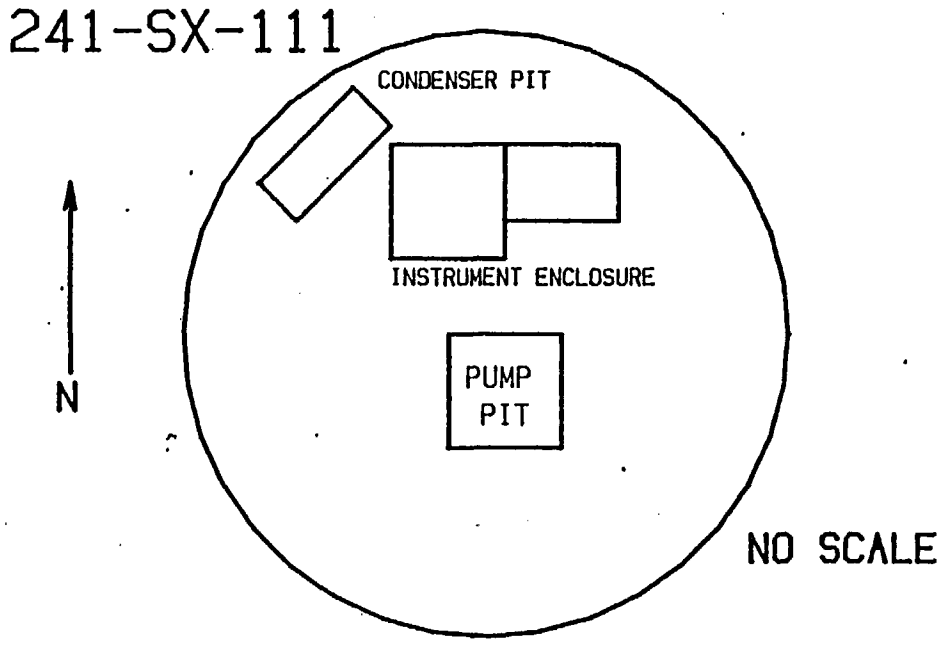
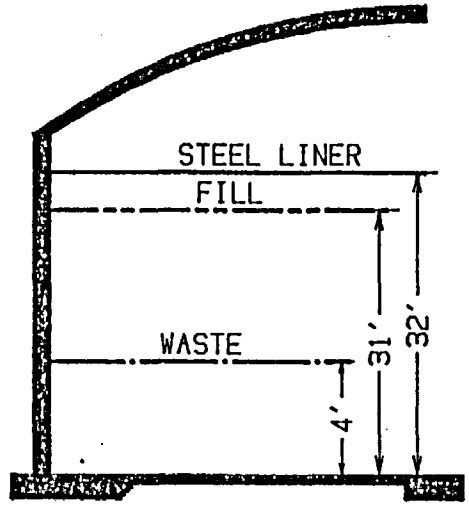
PRELIMINARY DATA

SX-111 TANK DETAILED DESCRIPTION





DESCRIPTION: 1000-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 13% FULL DUE TO WASTE TRANSFERS SINCE 1956.
THE WASTE WILL BE A HIGH HEAT, NON-COMPLEXED MIXTURE OF SLUDGE AND LIQUOR.

VOLUME :	132 KGALS
TRU :	878 Ci
Sr90 :	2610000 Ci
Cs137 :	0 Ci
Tc99 :	0 Ci
Pu241 :	835 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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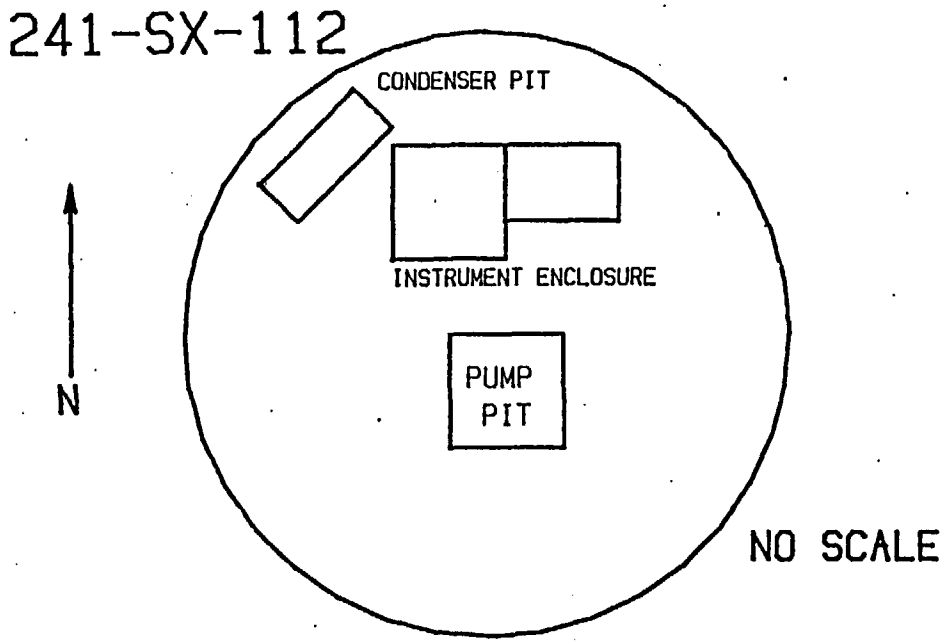
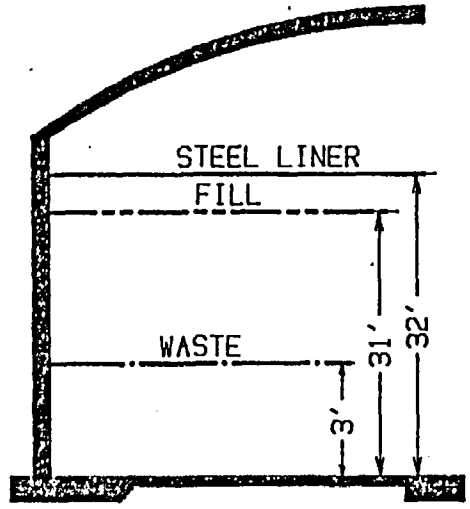
PRELIMINARY DATA

SX-112 TANK DETAILED DESCRIPTION





PRELIMINARY DATA

DESCRIPTION: 1000-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 9% FULL DUE TO WASTE TRANSFERS SINCE 1956.
THE WASTE WILL BE A HIGH HEAT, NON-COMPLEXED MIXTURE OF SLUDGE AND LIQUOR.

VOLUME :	95 KGALS
TRU :	265 Ci
Sr90 :	1070000 Ci
Cs137 :	38000 Ci
Tc99 :	7 Ci
Pu241 :	236 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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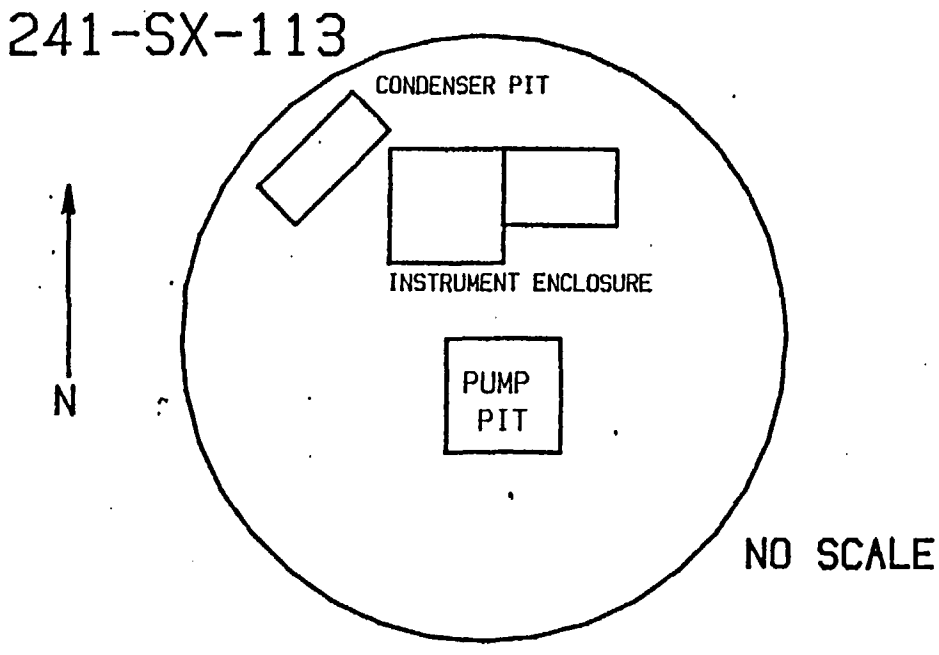
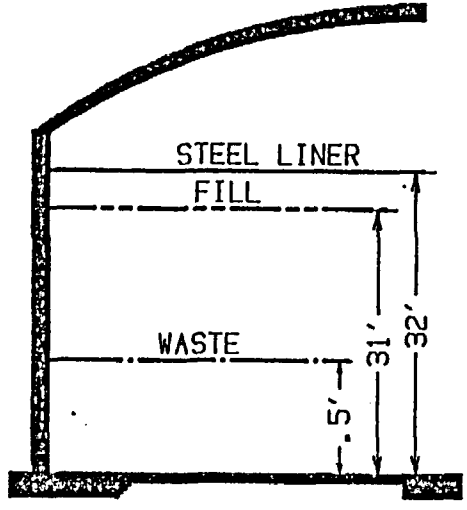
SX-113 TANK DETAILED DESCRIPTION





PRELIMINARY DATA

DESCRIPTION: 1000-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 2% FULL DUE TO WASTE TRANSFERS SINCE 1958.
THE WASTE WILL BE A HIGH HEAT, NON-COMPLEXED SLUDGE.

VOLUME :	26 KGALS
TRU :	95 Ci
Sr90 :	404000 Ci
Cs137 :	2330000 Ci
Tc99 :	47 Ci
Pu241 :	82 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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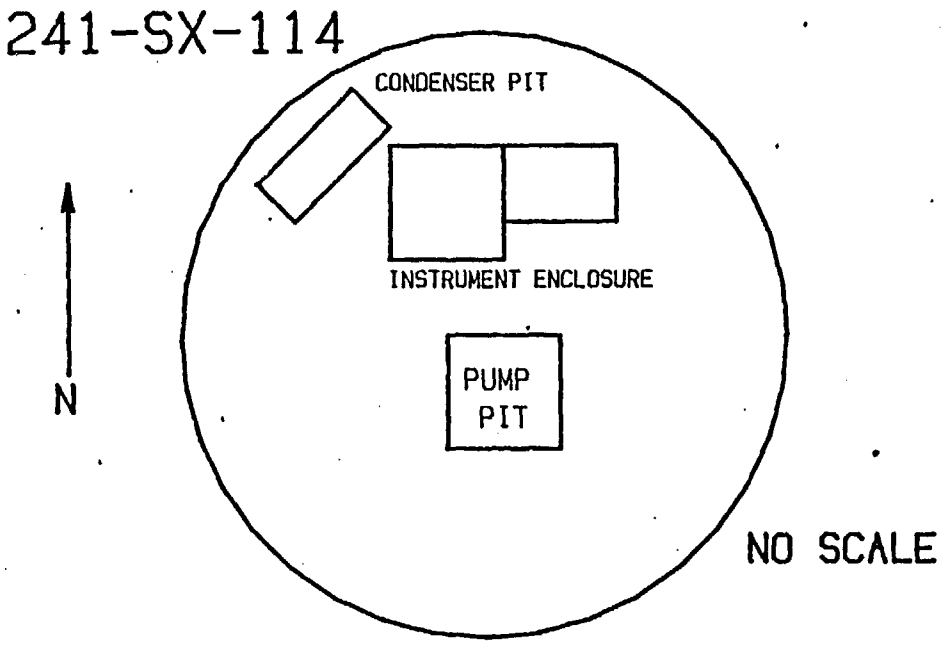
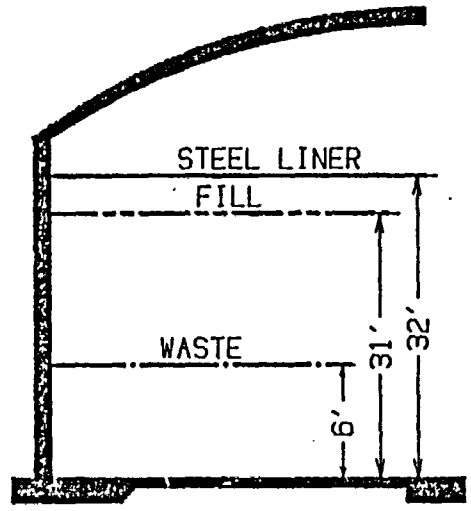
SX-114 TANK DETAILED DESCRIPTION





PRELIMINARY DATA

DESCRIPTION: 1000-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 19% FULL DUE TO WASTE TRANSFERS SINCE 1957.
THE WASTE WILL BE A HIGH HEAT, NON-COMPLEXED MIXTURE OF SLUDGE AND LIQUOR.

VOLUME :	195 KGALS
TRU :	1301 Ci
Sr90 :	4590000 Ci
Cs137 :	0 Ci
Tc99 :	0 Ci
Pu241 :	1100 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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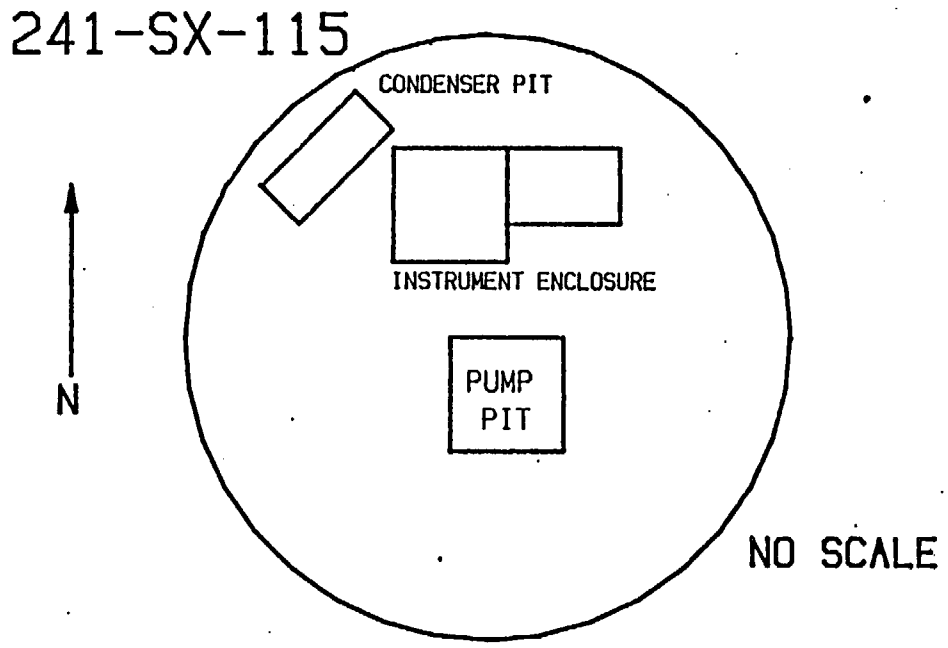
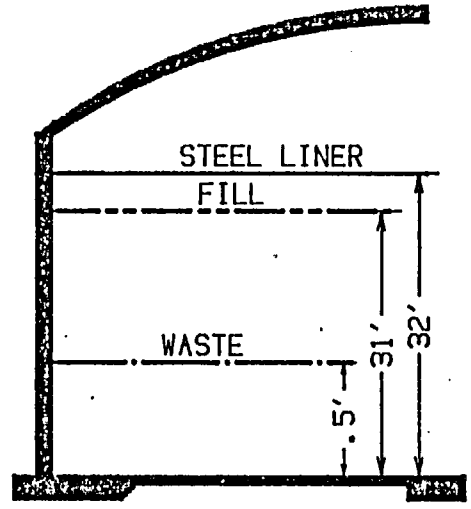
SX-115 TANK DETAILED DESCRIPTION





DESCRIPTION: 1000-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 1% FULL DUE TO WASTE TRANSFERS SINCE 1958.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED SLUDGE.

VOLUME :	12 KGALS
TRU :	210 Ci
Sr90 :	720000 Ci
Cs137 :	0 Ci
Tc99 :	0 Ci
Pu241 :	196 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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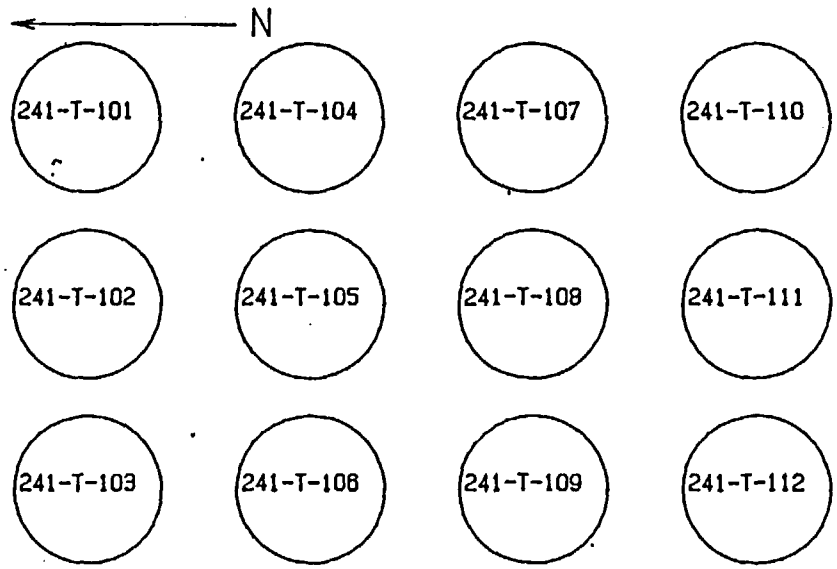
PRELIMINARY DATA

241- T TANK FARM SUMMARY



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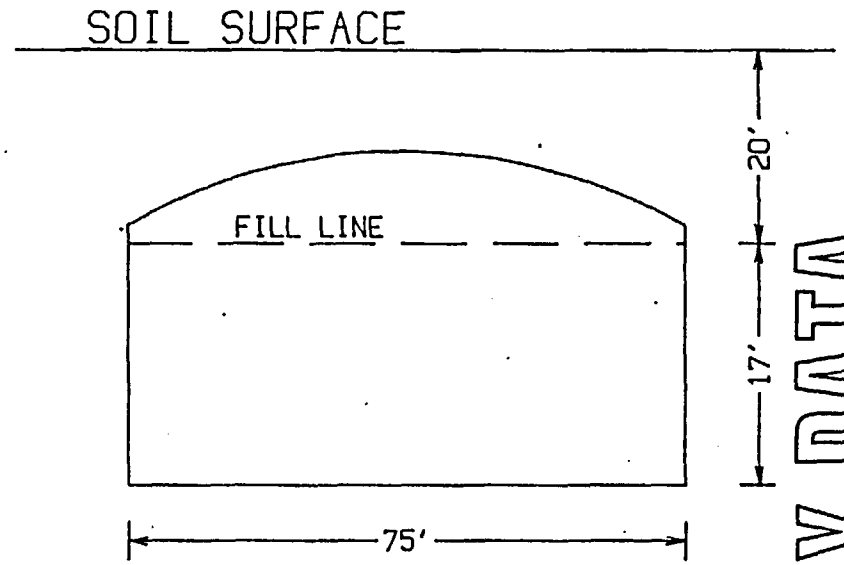

TANK NAME	FILL FRACTION	COMPLEXANT MOLES	HEAT GENERATION BTU/hr	TRU Ci	TRU NCi/g
T-101	0.25	53	39661	1261	1660
T-102	0.05	2	2144	15	102
T-103	0.04	0	761	6	43
T-104	0.92	0	1247	117	42
T-105	0.18	8	5813	360	649
T-106	0.03	0	0	0	0
T-107	0.36	16	21627	696	643
T-108	0.08	0	109	4	17
T-109	0.19	0	75	0	0
T-110	0.78	0	466	1315	558
T-111	0.95	0	95	131	45
T-112	0.12	0	16	11	30
T-201	0.56	0	0	0	0
T-202	0.41	0	0	0	0
T-203	0.70	0	0	4	21
T-204	0.76	0	0	0	0

PRELIMINARY DATA

PRE-DISPOSAL TANK STATE APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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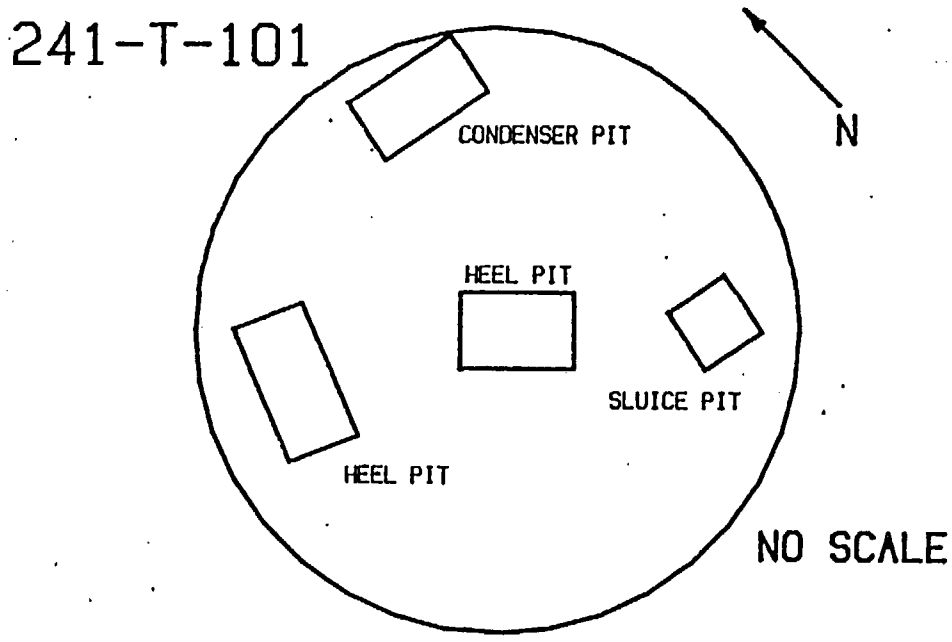
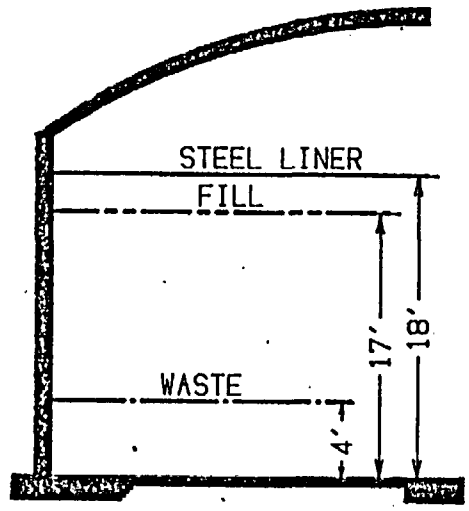
T-101 TANK DETAILED DESCRIPTION





DESCRIPTION: 532-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 25% FULL DUE TO WASTE TRANSFERS SINCE 1945.
THE WASTE WILL BE A HIGH HEAT, NON-COMPLEXED MIXTURE OF SLUDGE AND LIQUOR.

VOLUME :	136 KGALS
TRU :	1261 Ci
Sr90 :	1580000 Ci
Cs137 :	164000 Ci
Tc99 :	769 Ci
Pu241 :	103 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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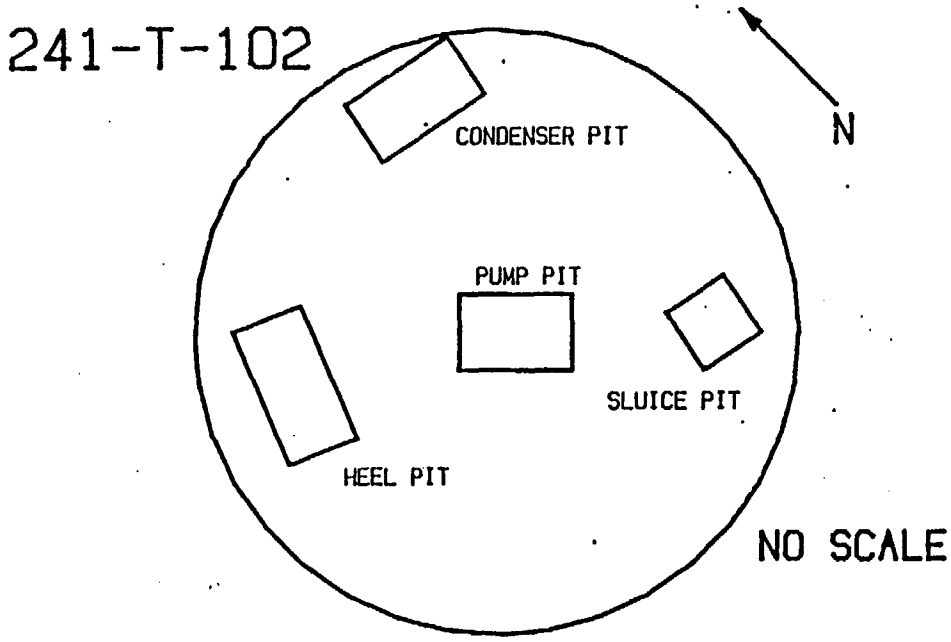
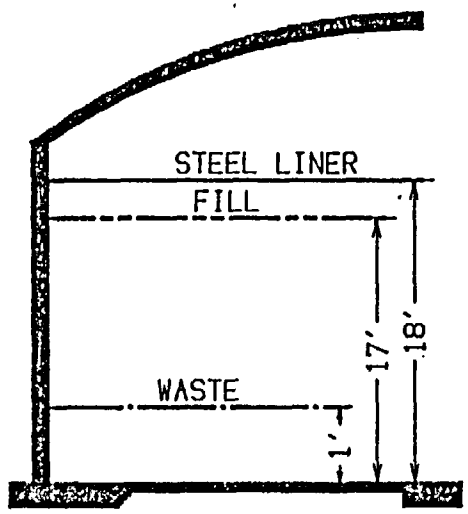
PRELIMINARY DATA

T-102 TANK DETAILED DESCRIPTION





DESCRIPTION: 532-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 5% FULL DUE TO WASTE TRANSFERS SINCE 1945. THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SLUDGE AND LIQUOR.

VOLUME :	27 KGALS
TRU :	15 Ci
Sr90 :	86100 Ci
Cs137 :	7920 Ci
Tc99 :	27 Ci
Pu241 :	2 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

EPA TOUR BOOK
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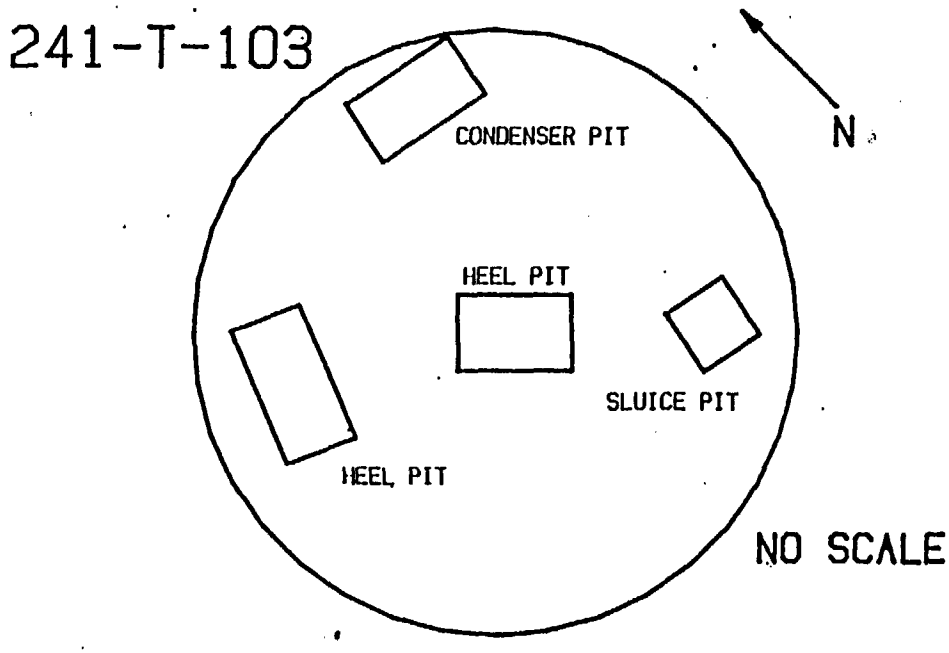
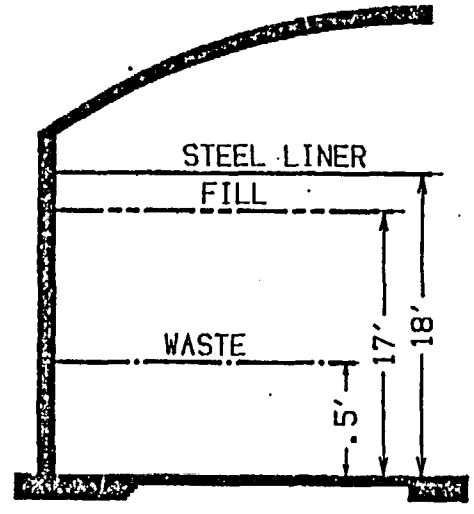
PRELIMINARY DATA

T-103 TANK DETAILED DESCRIPTION





DESCRIPTION: 532-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 4% FULL DUE TO WASTE TRANSFERS SINCE 1953.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SLUDGE AND LIQUOR.

VOLUME :	26 KGALS
TRU :	6 Ci
Sr90 :	30300 Ci
Cs137 :	3190 Ci
Tc99 :	8 Ci
Pu241 :	0 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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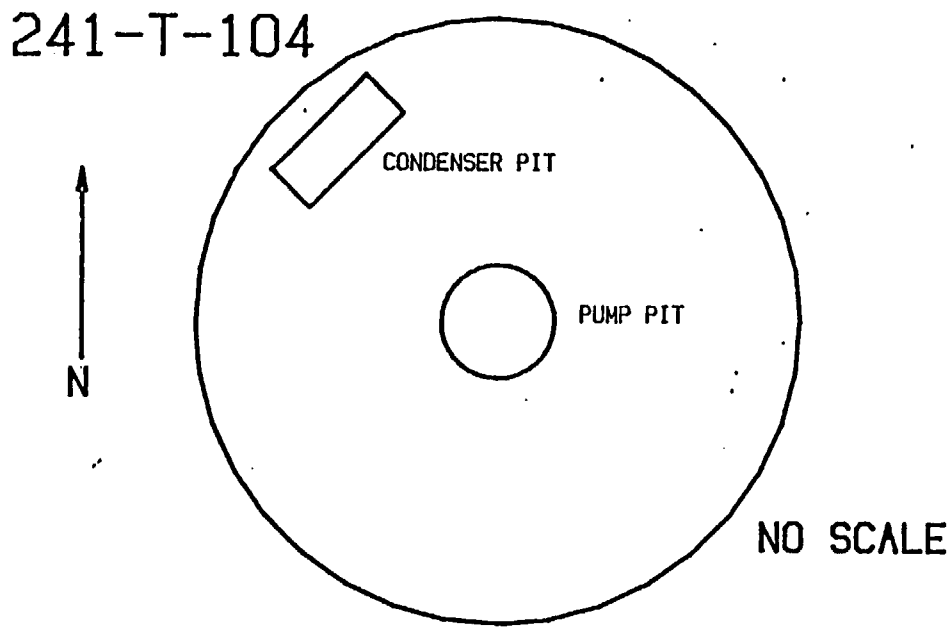
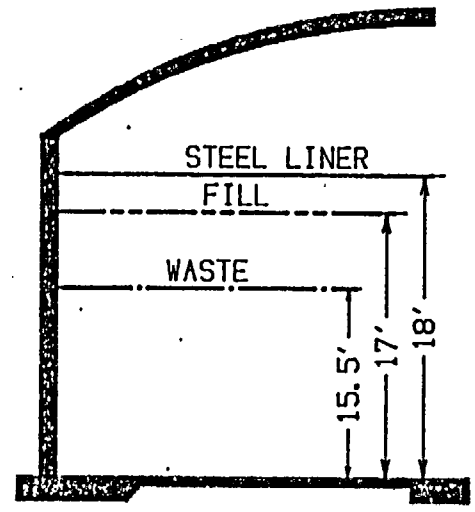
PRELIMINARY DATA

T-104 TANK DETAILED DESCRIPTION





DESCRIPTION: 532-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 92% FULL DUE TO WASTE TRANSFERS SINCE 1946.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SLUDGE AND LIQUOR.

VOLUME :	492 KGALS
TRU :	117 Ci
Sr90 :	32200 Ci
Cs137 :	30100 Ci
Tc99 :	7 Ci
Pu241 :	121 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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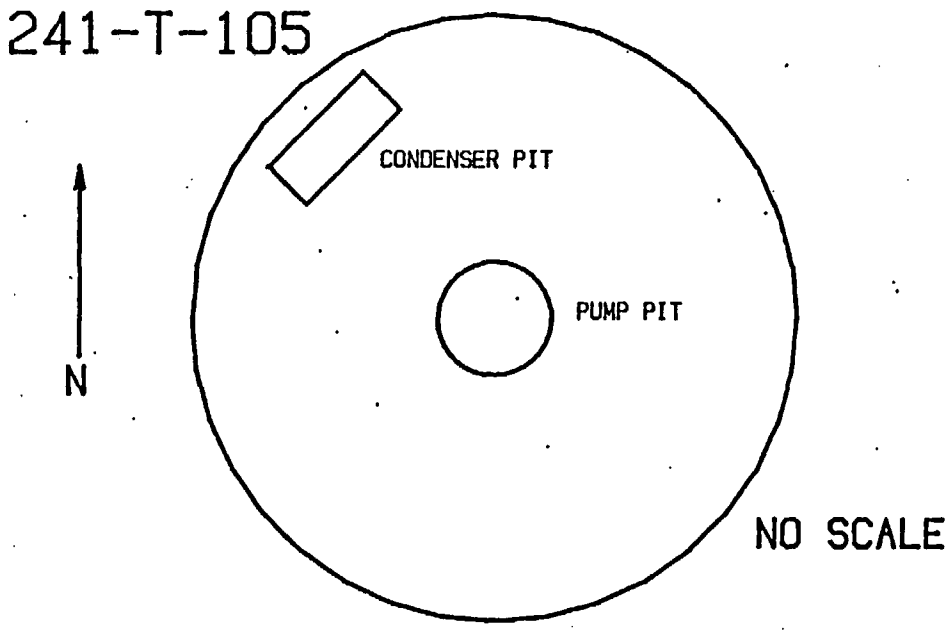
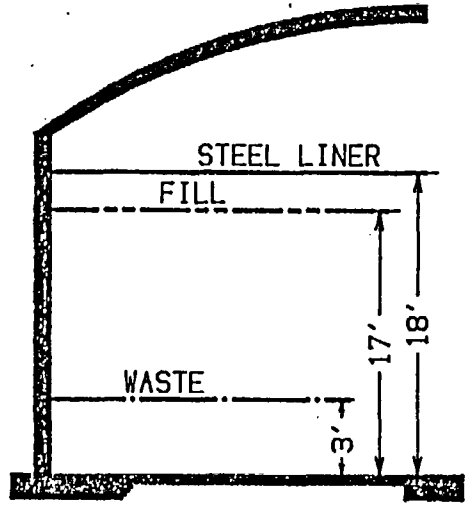
PRELIMINARY DATA

T-105 TANK DETAILED DESCRIPTION





DESCRIPTION: 532-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 18% FULL DUE TO WASTE TRANSFERS SINCE 1954.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SLUDGE AND LIQUOR.

VOLUME :	98 KGALS
TRU :	360 Ci
Sr90 :	233000 Ci
Cs137 :	22000 Ci
Tc99 :	110 Ci
Pu241 :	269 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

EPA TOUR BOOK
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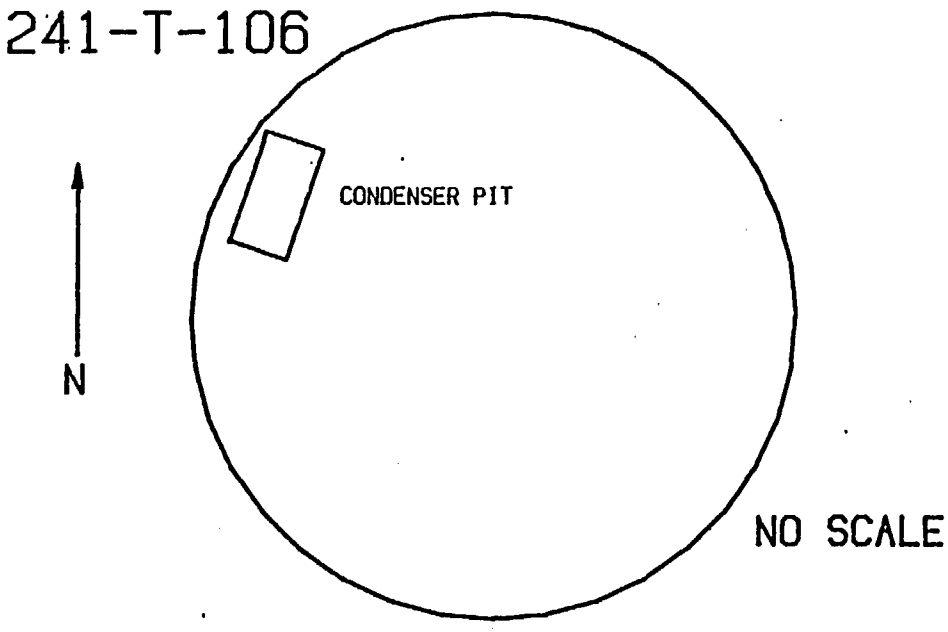
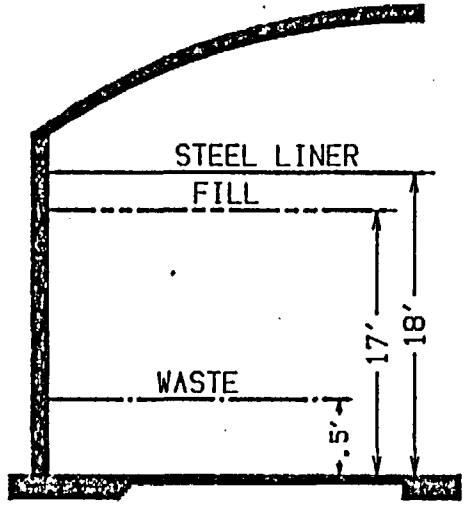
PRELIMINARY DATA

T-106 TANK DETAILED DESCRIPTION





DESCRIPTION: 532-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 3% FULL DUE TO WASTE TRANSFERS SINCE 1954.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SLUDGE AND LIQUOR.

VOLUME :	21 KGALS
TRU :	0 Ci
Sr90 :	0 Ci
Cs137 :	0 Ci
Tc99 :	0 Ci
Pu241 :	0 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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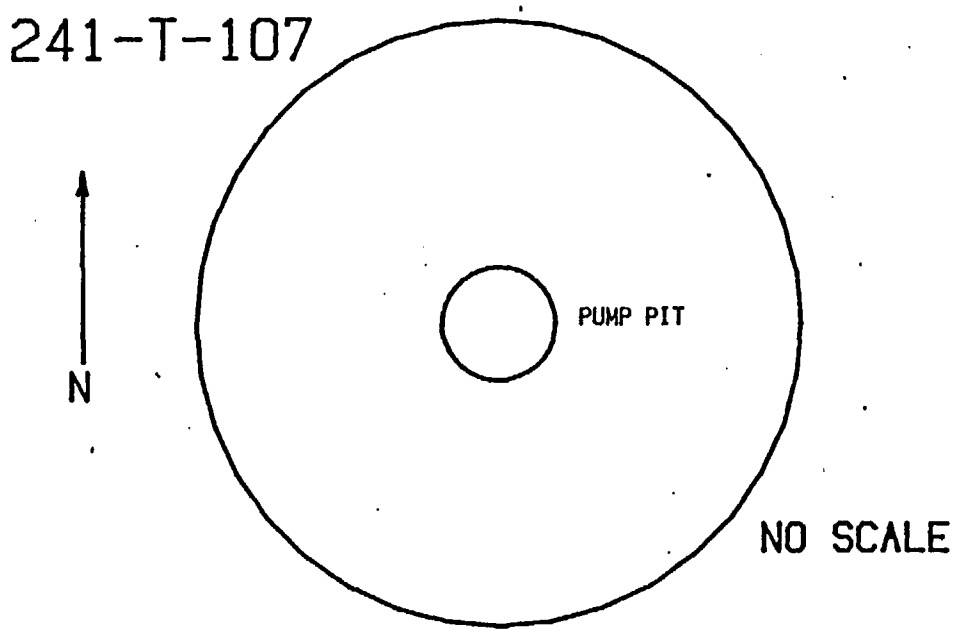
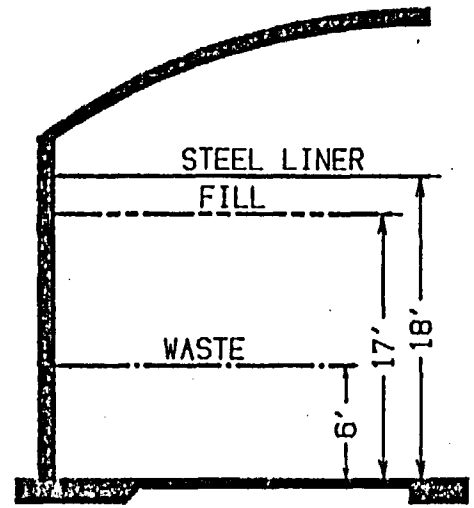
PRELIMINARY DATA

T-107 TANK DETAILED DESCRIPTION





DESCRIPTION: 532-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 36% FULL DUE TO WASTE TRANSFERS SINCE 1945.
THE WASTE WILL BE A HIGH HEAT, NON-COMPLEXED MIXTURE OF SLUDGE AND LIQUOR.

VOLUME :	192 KGALS
TRU :	696 Ci
Sr90 :	892000 Ci
Cs137 :	46000 Ci
Tc99 :	324 Ci
Pu241 :	6 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

EPA TOUR BOOK
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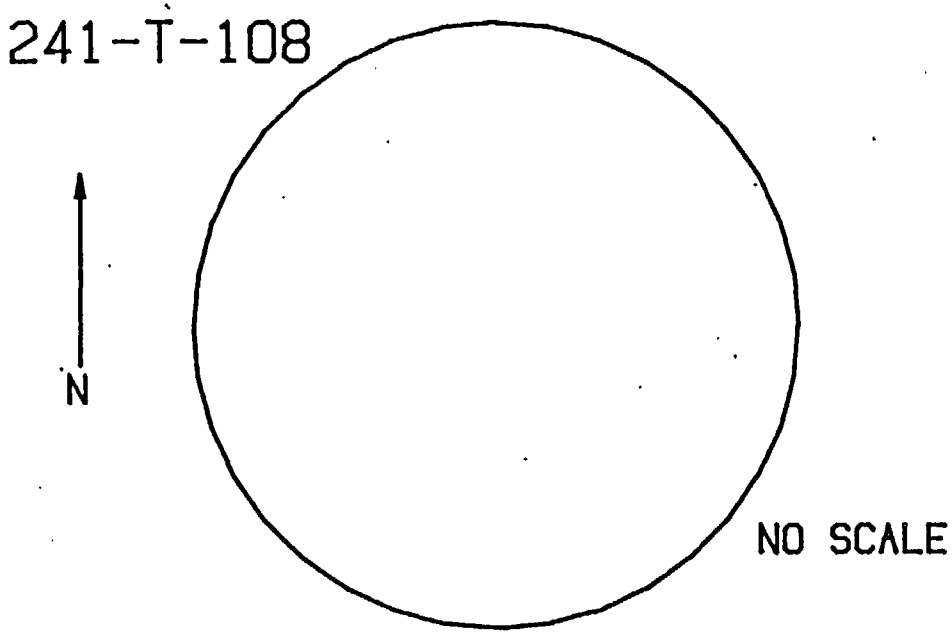
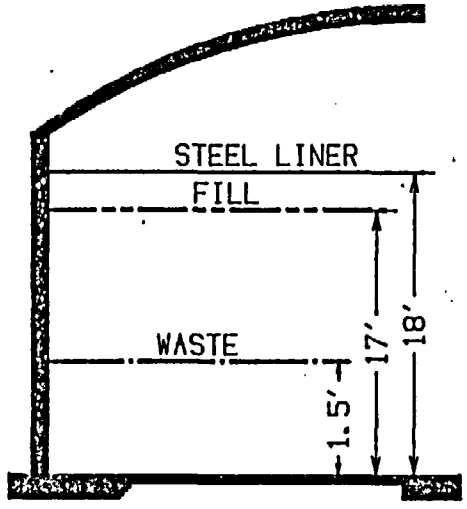
PRELIMINARY DATA

T-108 TANK DETAILED DESCRIPTION





DESCRIPTION: 532-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 8% FULL DUE TO WASTE TRANSFERS SINCE 1945.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED SLUDGE.

VOLUME :	44 KGALS
TRU :	4 Ci
Sr90 :	2710 Ci
Cs137 :	2780 Ci
Tc99 :	0 Ci
Pu241 :	0 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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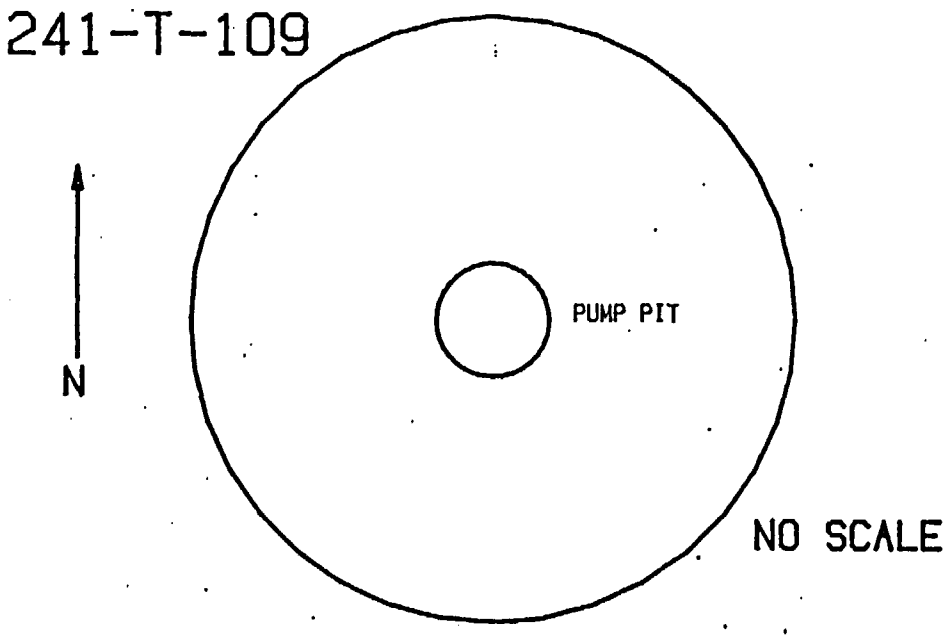
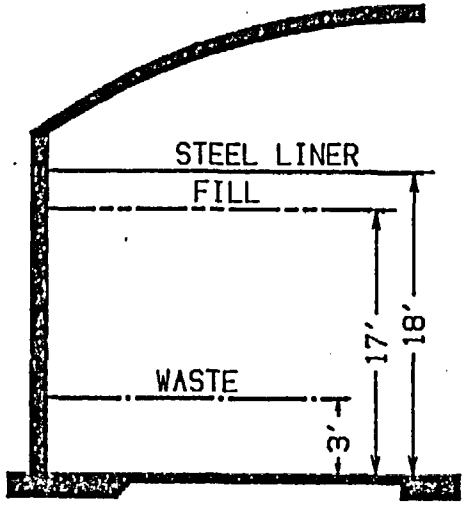
PRELIMINARY DATA

T-109 TANK DETAILED DESCRIPTION





PRELIMINARY DATA

DESCRIPTION: 532-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 19% FULL DUE TO WASTE TRANSFERS SINCE 1952.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SLUDGE AND LIQUOR.

VOLUME :	103 KGALS
TRU :	0 Ci
Sr90 :	118 Ci
Cs137 :	4440 Ci
Tc99 :	1 Ci
Pu241 :	0 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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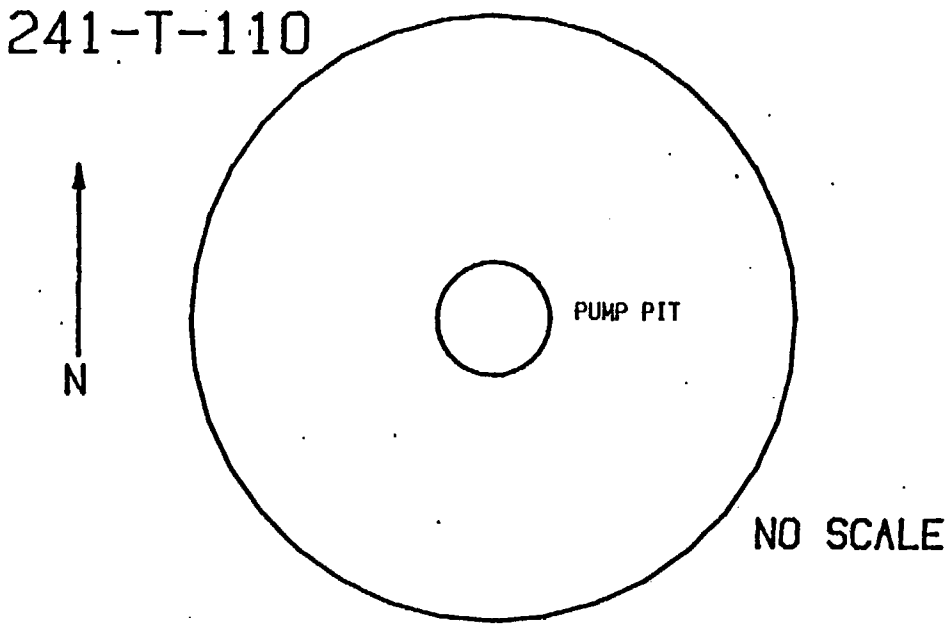
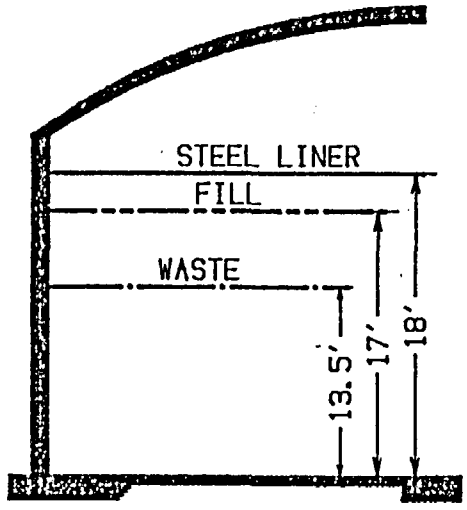
T-110 , TANK DETAILED DESCRIPTION





PRELIMINARY DATA

DESCRIPTION: 532-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 78% FULL DUE TO WASTE TRANSFERS SINCE 1944.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SLUDGE AND LIQUOR.

VOLUME :	418 KGALS
TRU :	1315 Ci
Sr90 :	19500 Ci
Cs137 :	620 Ci
Tc99 :	0 Ci
Pu241 :	1160 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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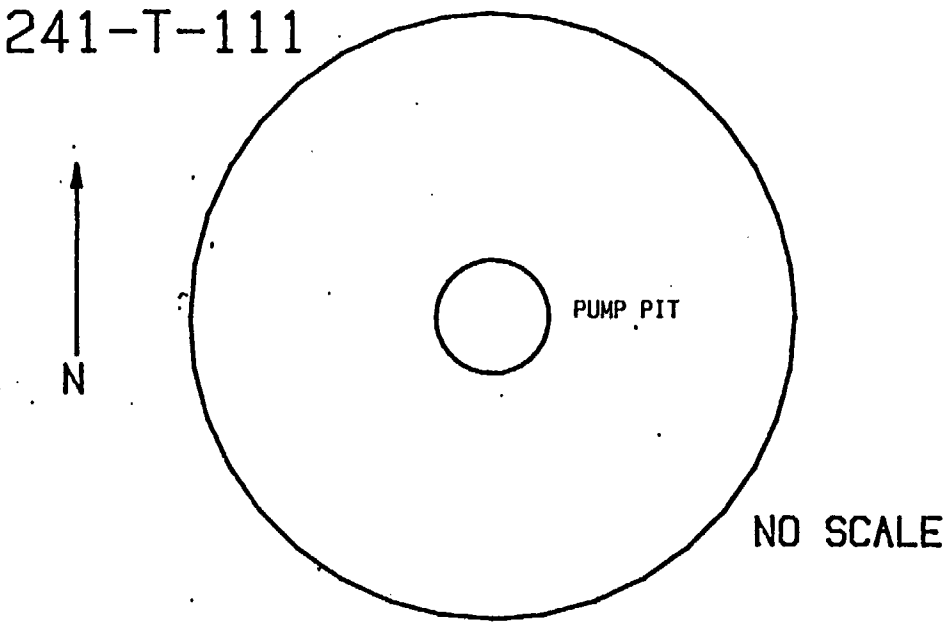
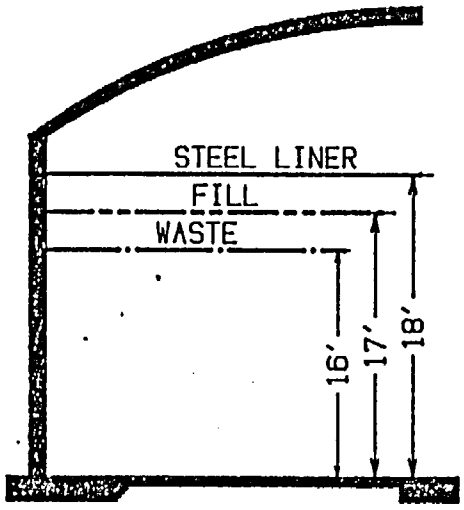
T-111 TANK DETAILED DESCRIPTION





DESCRIPTION: 532-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 95% FULL DUE TO WASTE TRANSFERS SINCE 1945. THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SLUDGE AND LIQUOR.

VOLUME :	506 KGALS
TRU :	131 Ci
Sr90 :	2995 Ci
Cs137 :	1529 Ci
Tc99 :	0 Ci
Pu241 :	113 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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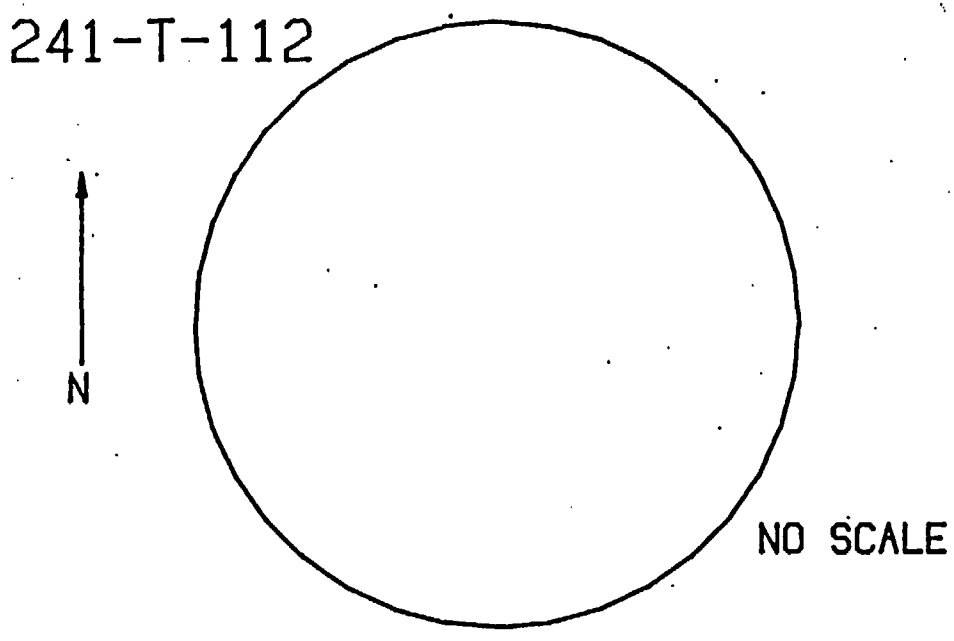
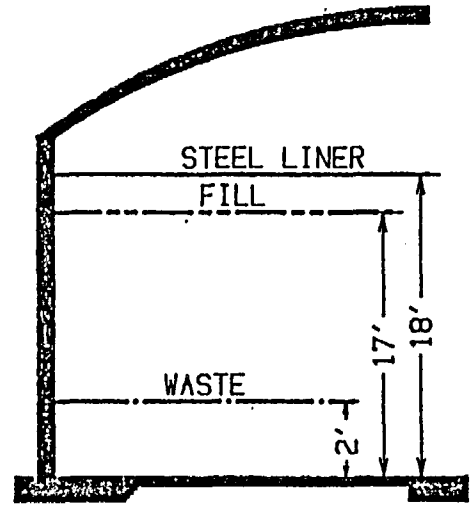
PRELIMINARY DATA

T-112 TANK DETAILED DESCRIPTION





DESCRIPTION: 532-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 12% FULL DUE TO WASTE TRANSFERS SINCE 1948.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SLUDGE AND LIQUOR.

VOLUME :	67 KGALS
TRU :	11 Ci
Sr90 :	724 Ci
Cs137 :	0 Ci
Tc99 :	0 Ci
Pu241 :	11 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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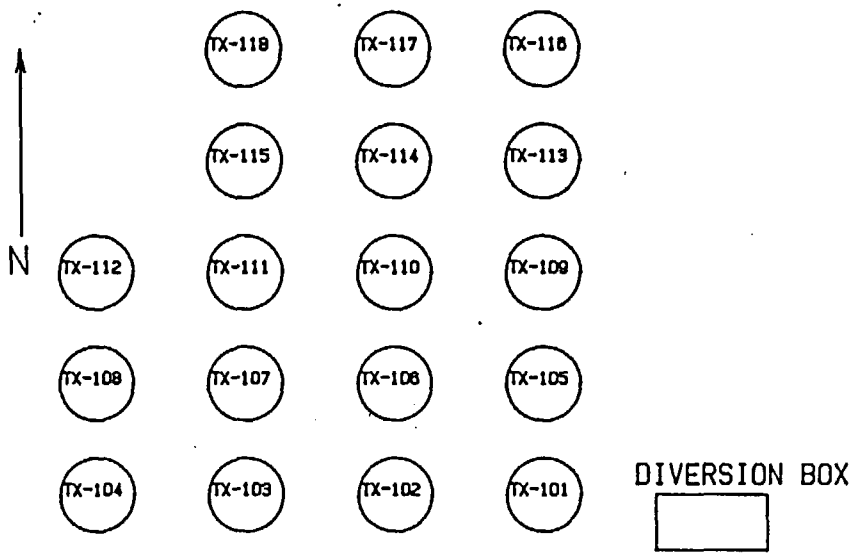
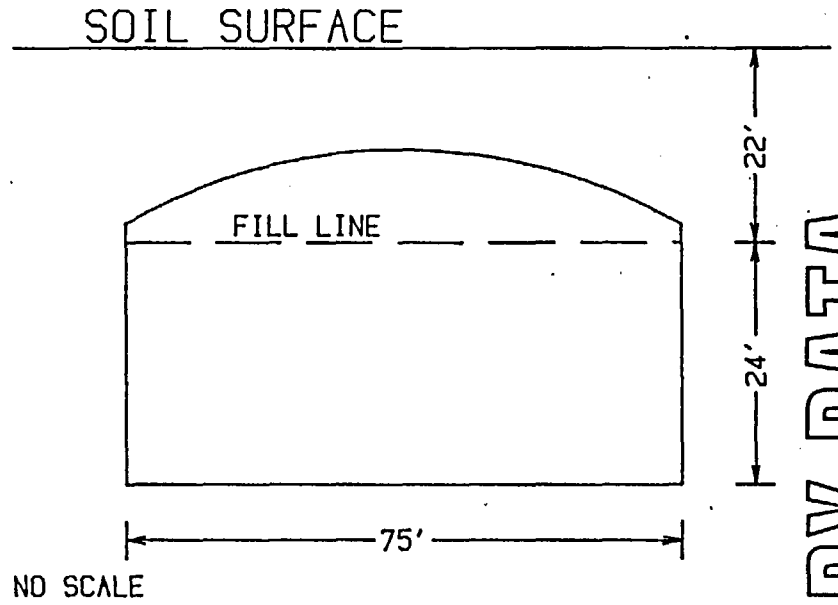
PRELIMINARY DATA

241- TX TANK FARM SUMMARY



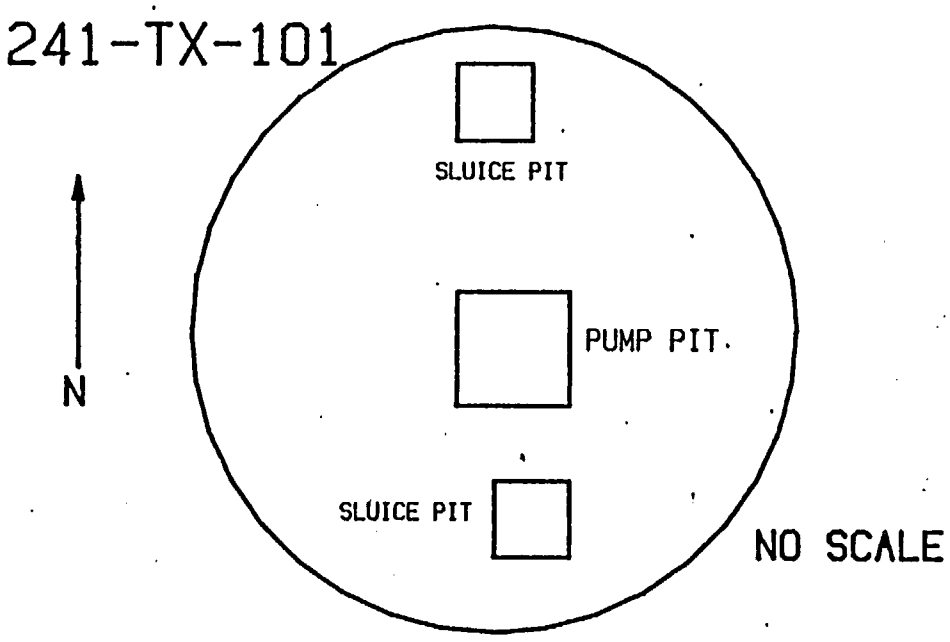


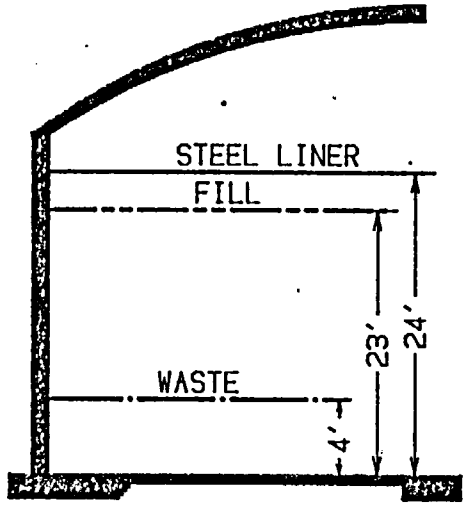
TANK NAME	FILL FRACTION	COMPLEXANT MOLES	HEAT GENERATION BTU/hr	TRU Ci	TRU NCi/g
TX-101	0.16	46	7654	110	160
TX-102	0.35	1774	16090	428	286
TX-103	0.27	534	881	36	31
TX-104	0.09	4860	7374	297	716
TX-105	0.58	1475	12091	323	128
TX-106	0.45	1272	3905	108	55
TX-107	0.05	4860	11711	375	1672
TX-108	0.12	2660	7141	173	338
TX-109	0.45	38	1744	311	161
TX-110	0.52	1834	4781	167	75
TX-111	0.38	1944	9340	142	87
TX-112	0.63	1708	12493	367	135
TX-113	0.63	0	16461	66	24
TX-114	0.61	0	1334	18	7
TX-115	0.61	0	11815	57	22
TX-116	0.60	0	508	0	0
TX-117	0.60	0	298	0	0
TX-118	0.36	99	526	1244	805

PRELIMINARY DATA

PRE-DISPOSAL TANK STATE APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

TX-101 TANK DETAILED DESCRIPTION





PRELIMINARY DATA

DESCRIPTION: 758-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 16% FULL DUE TO WASTE TRANSFERS SINCE 1949. THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SLUDGE AND LIQUOR.

VOLUME :	122 KGALS
TRU :	110 Ci
Sr90 :	321000 Ci
Cs137 :	8700 Ci
Tc99 :	8 Ci
Pu241 :	53 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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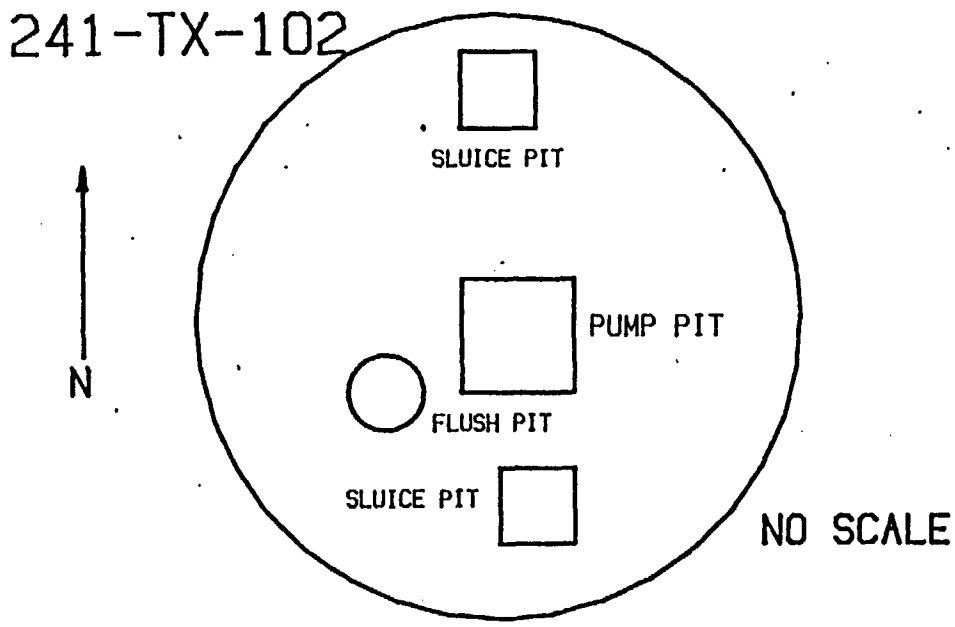
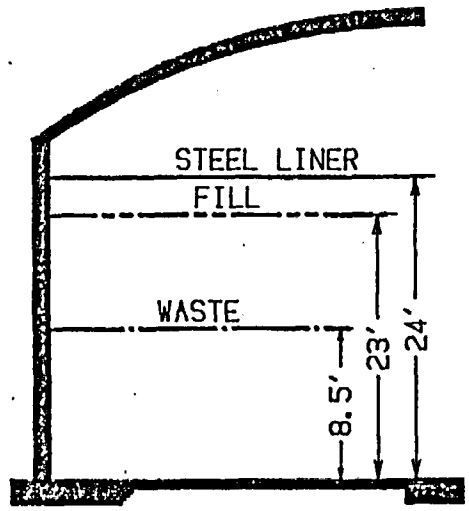
TX-102 TANK DETAILED DESCRIPTION





DESCRIPTION: 758-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 35% FULL DUE TO WASTE TRANSFERS SINCE 1950. THE WASTE WILL BE A LOW HEAT, COMPLEXED MIXTURE OF SALTCAKE AND LIQUOR.

VOLUME :	267 KGALS
TRU :	428 Ci
Sr90 :	531981 Ci
Cs137 :	222072 Ci
Tc99 :	513 Ci
Pu241 :	12 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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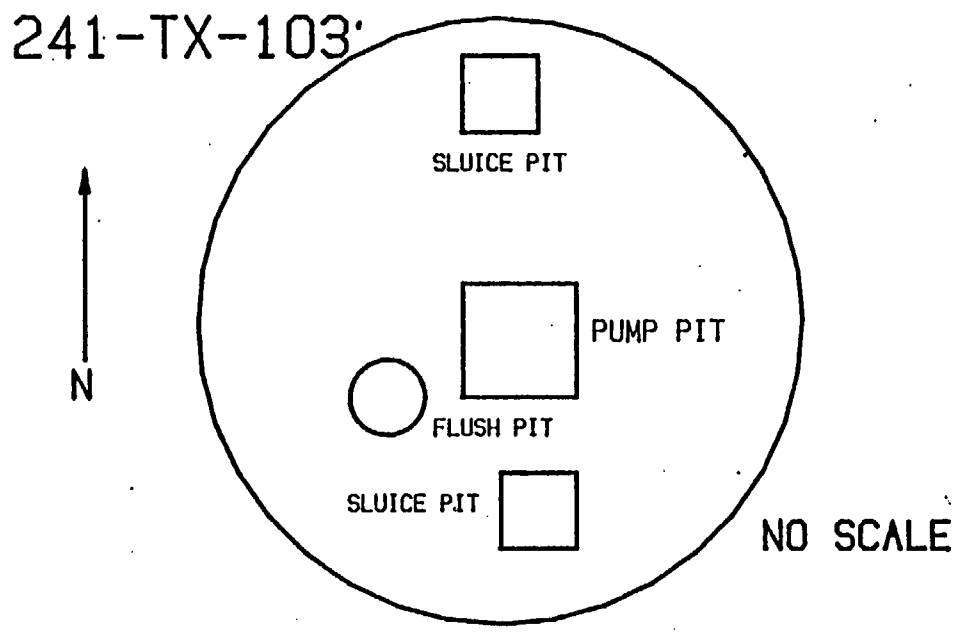
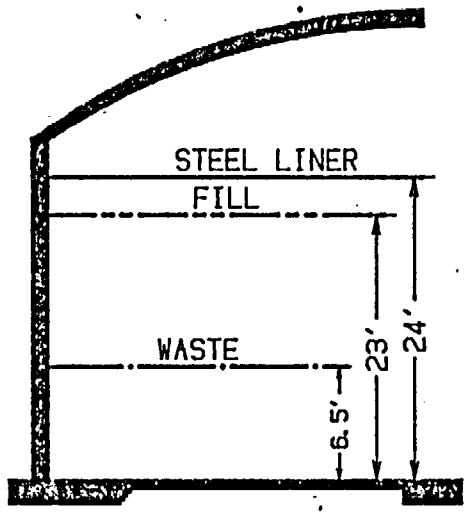
PRELIMINARY DATA

TX-103 TANK DETAILED DESCRIPTION





PRELIMINARY DATA

DESCRIPTION: 758-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 27% FULL DUE TO WASTE TRANSFERS SINCE 1954. THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SLUDGE AND LIQUOR.

VOLUME :	207 KGALS
TRU :	36 Ci
Sr90 :	28957 Ci
Cs137 :	12459 Ci
Tc99 :	13 Ci
Pu241 :	0 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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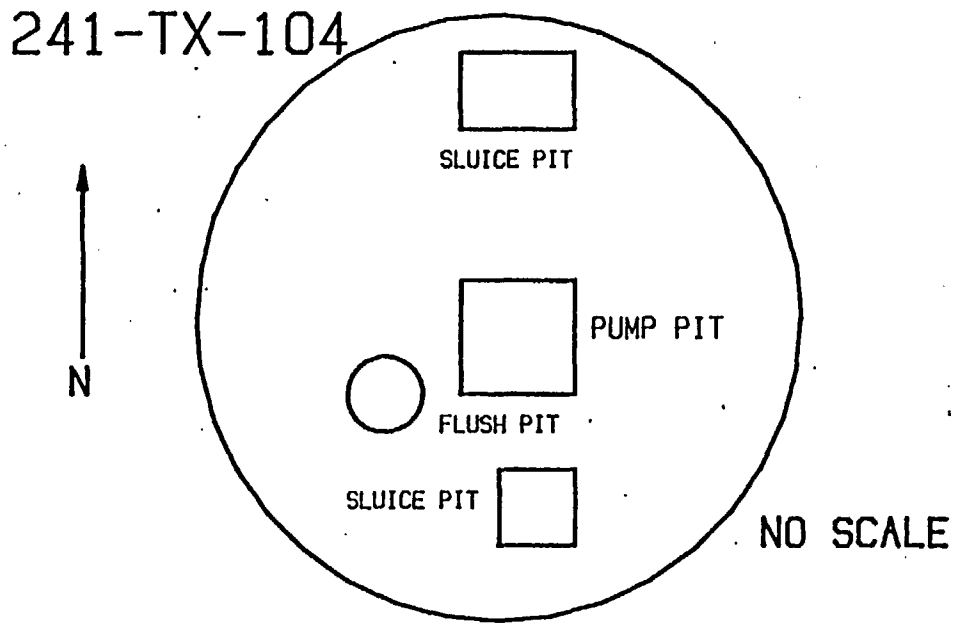
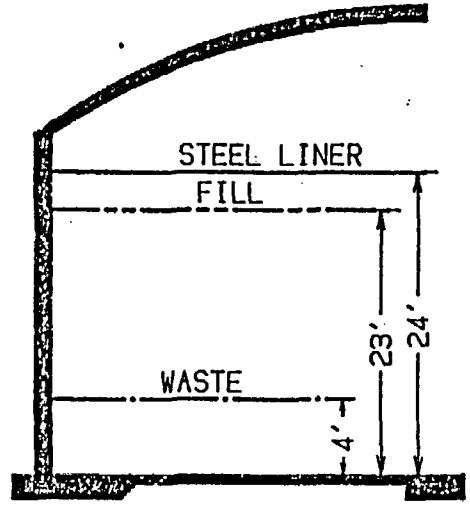
TX-104 TANK DETAILED DESCRIPTION





PRELIMINARY DATA

DESCRIPTION: 758-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 9% FULL DUE TO WASTE TRANSFERS SINCE 1950.
THE WASTE WILL BE A LOW HEAT, COMPLEXED MIXTURE OF SALTCAKE AND LIQUOR.

VOLUME :	75 KGALS
TRU :	297 Ci
Sr90 :	283000 Ci
Cs137 :	45900 Ci
Tc99 :	27 Ci
Pu241 :	29 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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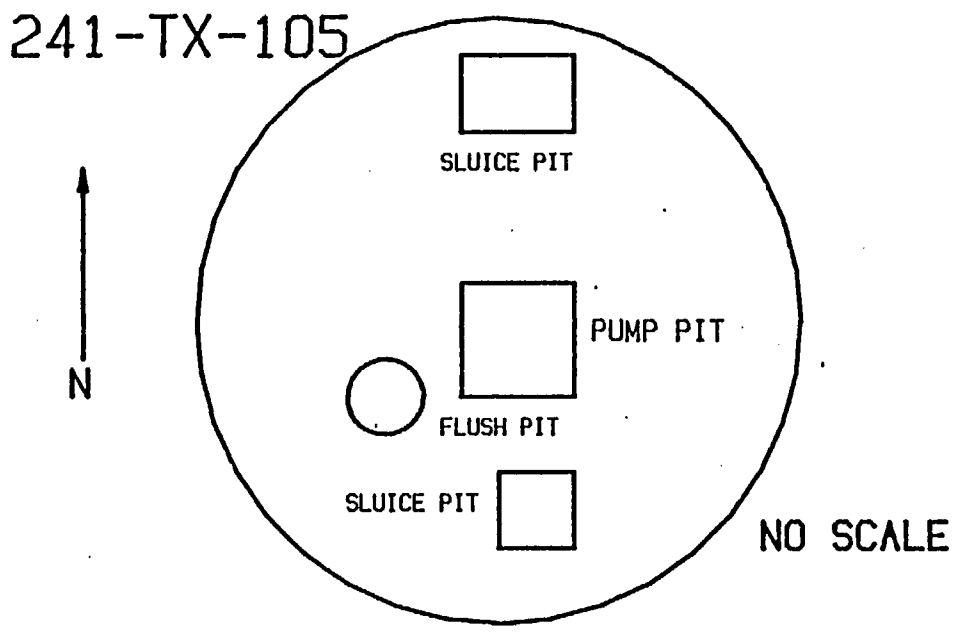
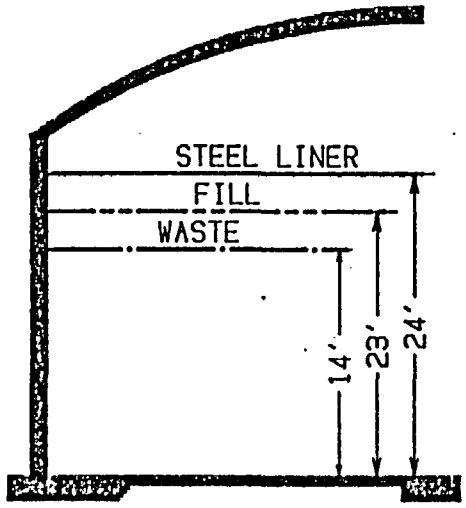
TX-105 TANK DETAILED DESCRIPTION





PRELIMINARY DATA

DESCRIPTION: 758-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 58% FULL DUE TO WASTE TRANSFERS SINCE 1952.
THE WASTE WILL BE A LOW HEAT, COMPLEXED MIXTURE OF SALTCAKE AND LIQUOR.

VOLUME :	445 KGALS
TRU :	323 Ci
Sr90 :	411865 Ci
Cs137 :	149626 Ci
Tc99 :	455 Ci
Pu241 :	42 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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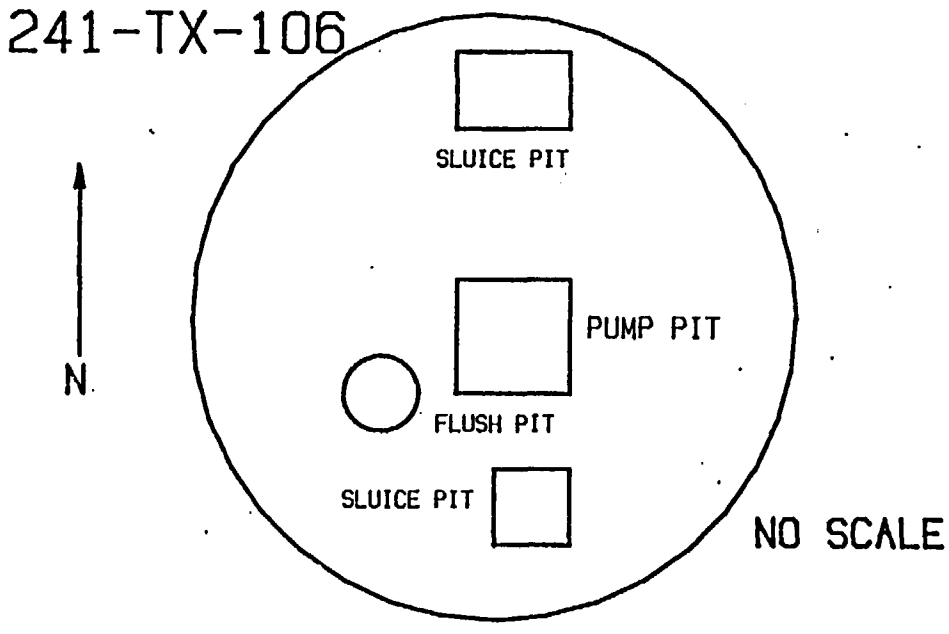
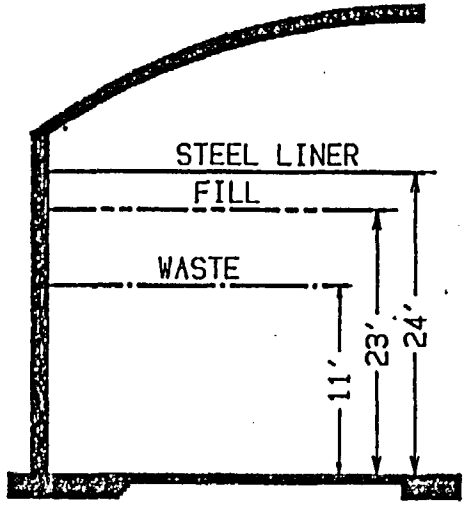
TX-106 TANK DETAILED DESCRIPTION





DESCRIPTION: 758-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 45% FULL DUE TO WASTE TRANSFERS SINCE 1952. THE WASTE WILL BE A LOW HEAT, COMPLEXED MIXTURE OF SALTCAKE AND LIQUOR.

VOLUME :	344 KGALS
TRU :	108 Ci
Sr90 :	75350 Ci
Cs137 :	130628 Ci
Tc99 :	269 Ci
Pu241 :	3 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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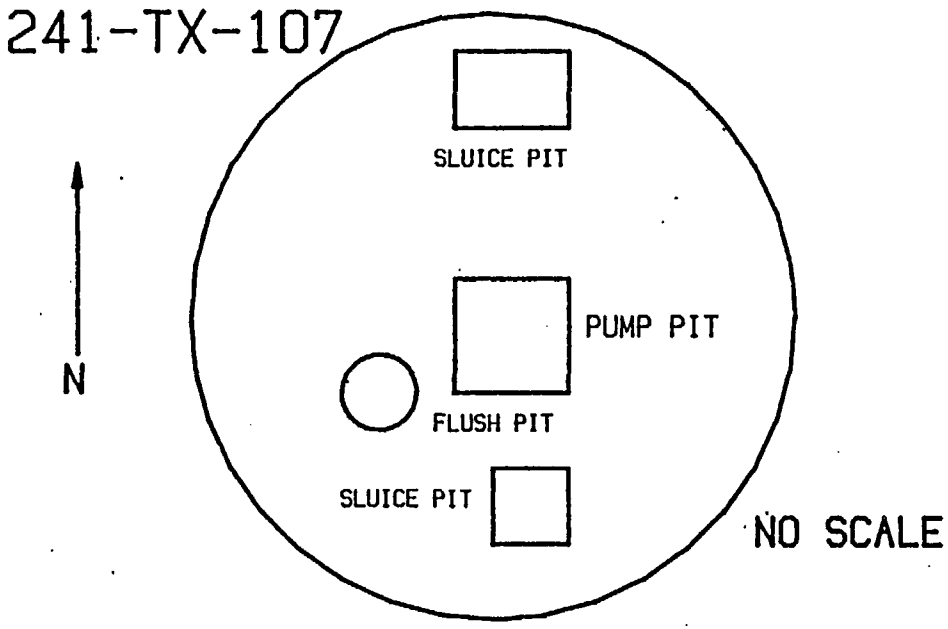
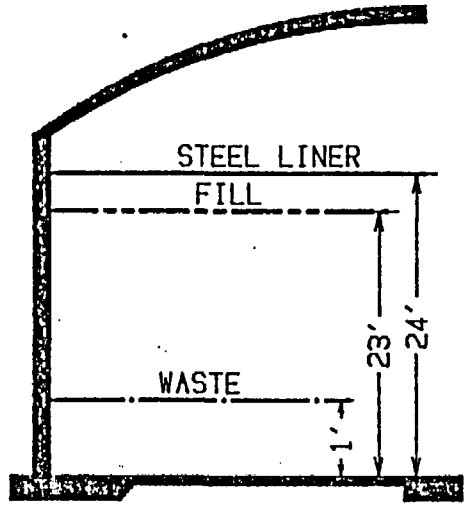
PRELIMINARY DATA

TX-107 TANK DETAILED DESCRIPTION





DESCRIPTION: 758-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 5% FULL DUE TO WASTE TRANSFERS SINCE 1952.
THE WASTE WILL BE A LOW HEAT, COMPLEXED MIXTURE OF SALTCAKE AND LIQUOR.

VOLUME :	40 KGALS
TRU :	375 Ci
Sr90 :	347000 Ci
Cs137 :	219000 Ci
Tc99 :	67 Ci
Pu241 :	89 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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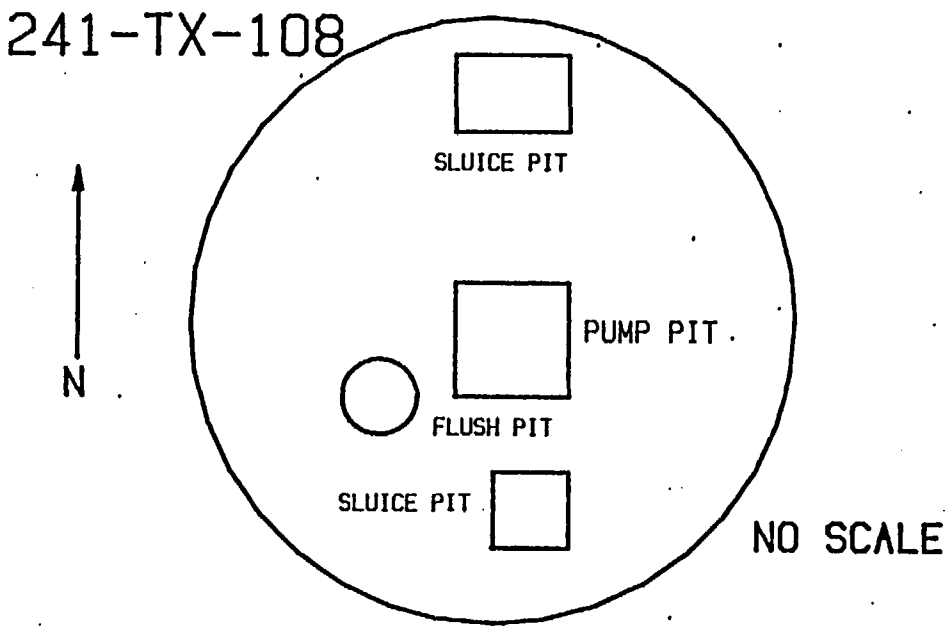
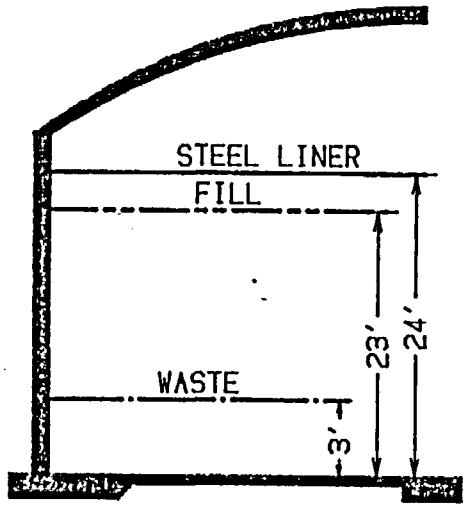
PRELIMINARY DATA

TX-108 TANK DETAILED DESCRIPTION





PRELIMINARY DATA

DESCRIPTION: 758-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 12% FULL DUE TO WASTE TRANSFERS SINCE 1952. THE WASTE WILL BE A LOW HEAT, COMPLEXED MIXTURE OF SALTCAKE AND LIQUOR.

VOLUME :	91 KGALS
TRU :	173 Ci
Sr90 :	165000 Ci
Cs137 :	200000 Ci
Tc99 :	81 Ci
Pu241 :	5 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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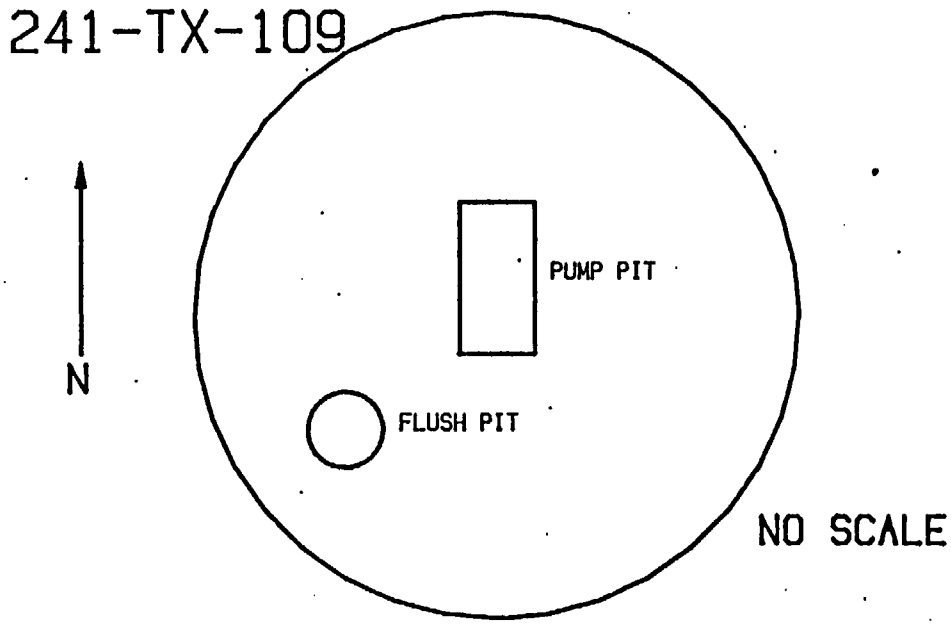
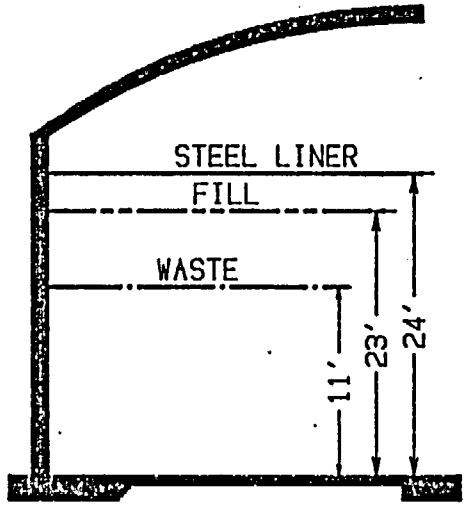
TX-109 TANK DETAILED DESCRIPTION





DESCRIPTION: 758-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 45% FULL DUE TO WASTE TRANSFERS SINCE 1949.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SALTCAKE AND LIQUOR.

VOLUME :	342 KGALS
TRU :	311 Ci
Sr90 :	42251 Ci
Cs137 :	46099 Ci
Tc99 :	28 Ci
Pu241 :	295 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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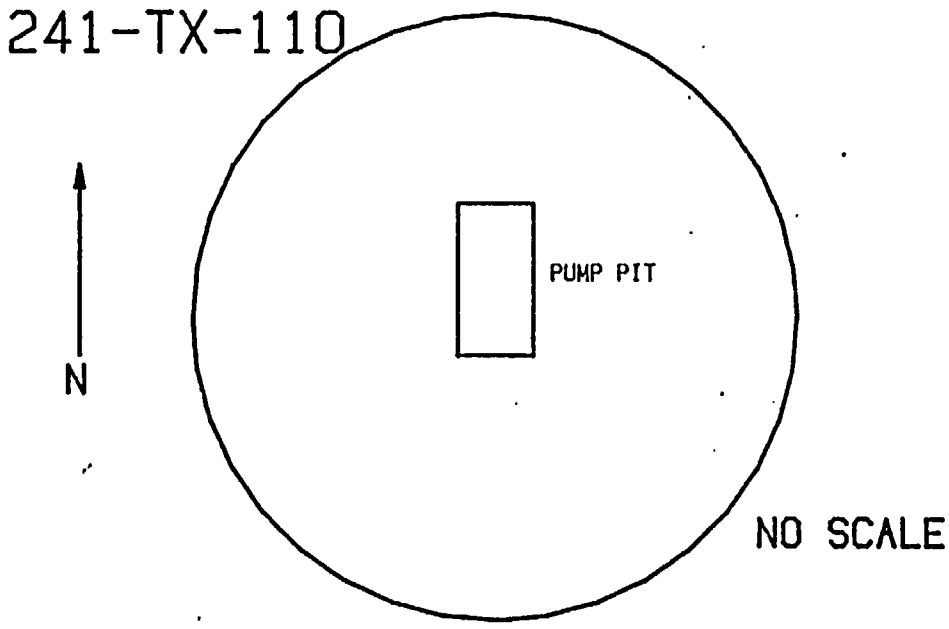
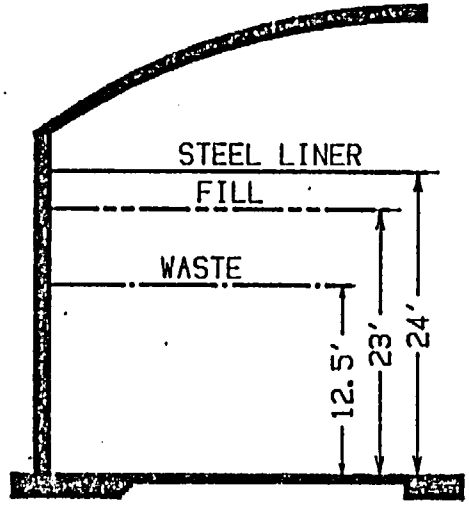
PRELIMINARY DATA

TX-110 TANK DETAILED DESCRIPTION





DESCRIPTION: 758-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 52% FULL DUE TO WASTE TRANSFERS SINCE 1949.
THE WASTE WILL BE A LOW HEAT, COMPLEXED MIXTURE OF SALTCAKE AND LIQUOR.

VOLUME :	394 KGALS
TRU :	167 Ci
Sr90 :	144769 Ci
Cs137 :	85000 Ci
Tc99 :	171 Ci
Pu241 :	31 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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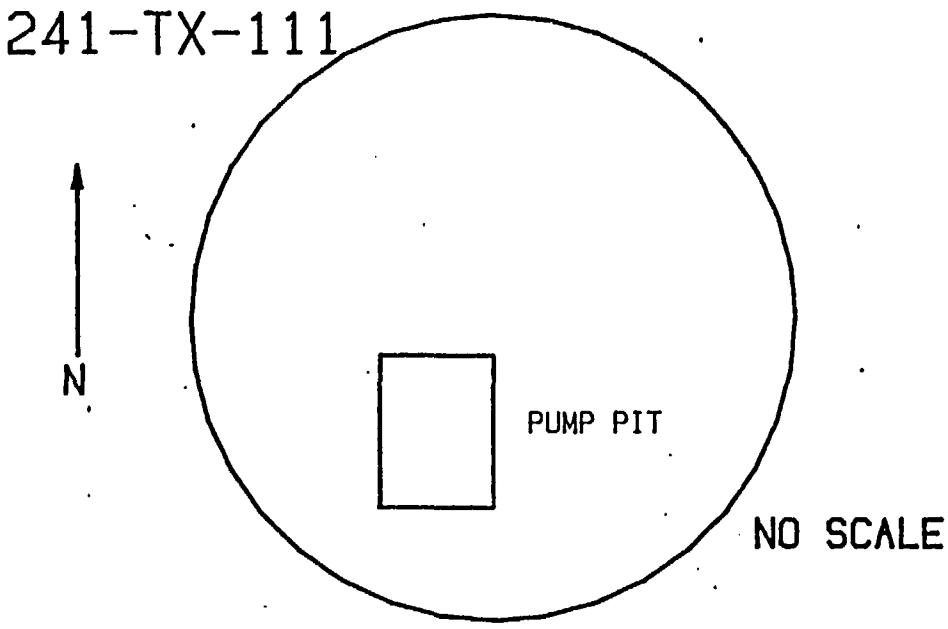
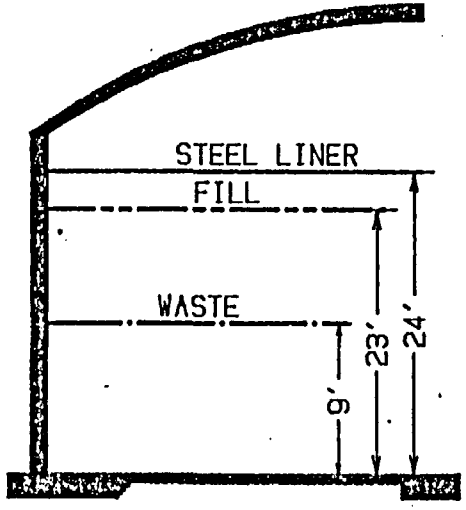
PRELIMINARY DATA

TX-111 TANK DETAILED DESCRIPTION





DESCRIPTION: 758-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 38% FULL DUE TO WASTE TRANSFERS SINCE 1954.
THE WASTE WILL BE A LOW HEAT, COMPLEXED MIXTURE OF SALTCAKE AND LIQUOR.

VOLUME :	290 KGALS
TRU :	142 Ci
Sr90 :	102000 Ci
Cs137 :	424000 Ci
Tc99 :	188 Ci
Pu241 :	1 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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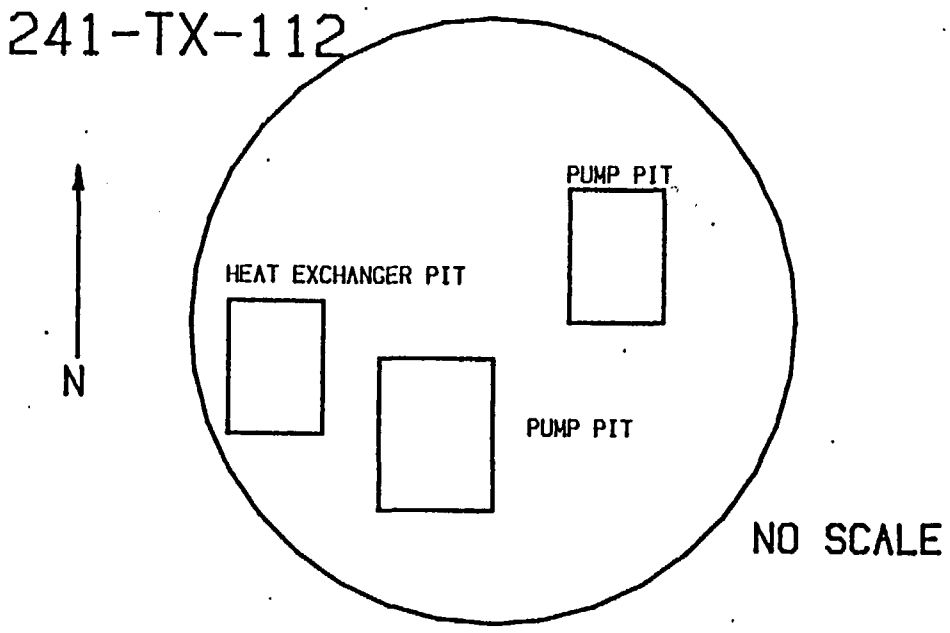
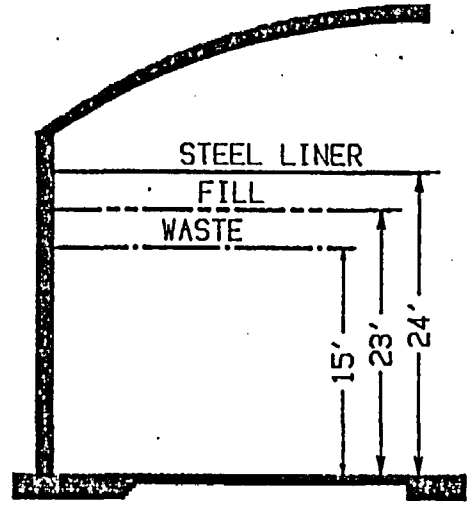
PRELIMINARY DATA

TX-112 TANK DETAILED DESCRIPTION





PRELIMINARY DATA

DESCRIPTION: 758-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 63% FULL DUE TO WASTE TRANSFERS SINCE 1950. THE WASTE WILL BE A LOW HEAT, COMPLEXED MIXTURE OF SALTCAKE AND LIQUOR.

VOLUME :	481 KGALS
TRU :	367 Ci
Sr90 :	414782 Ci
Cs137 :	170000 Ci
Tc99 :	460 Ci
Pu241 :	3 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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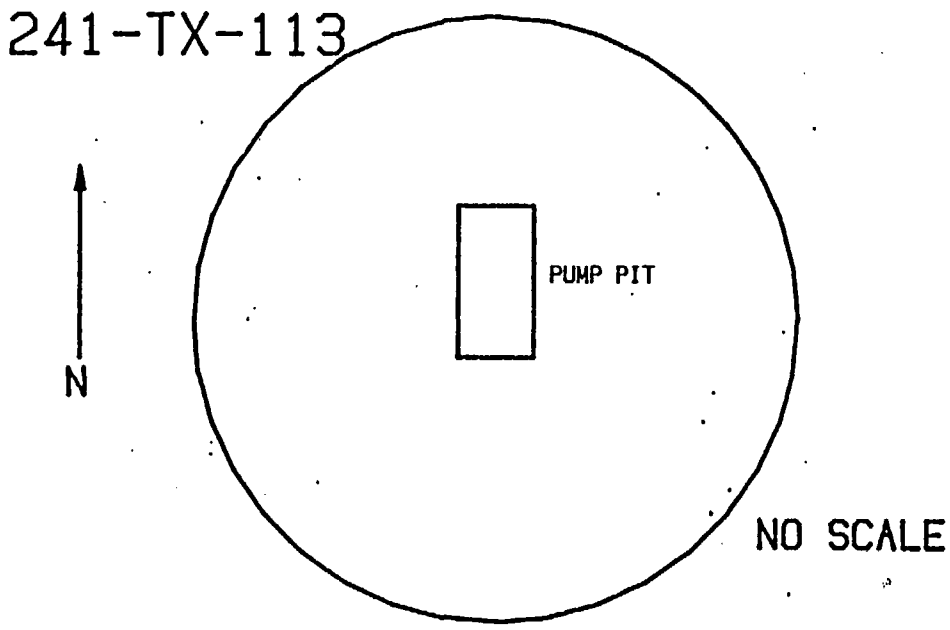
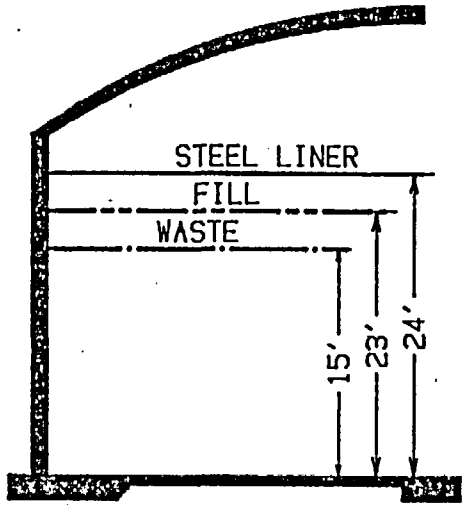
TX-113 TANK DETAILED DESCRIPTION





PRELIMINARY DATA

DESCRIPTION: 758-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 63% FULL DUE TO WASTE TRANSFERS SINCE 1952. THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SALTCAKE AND LIQUOR.

VOLUME :	478 KGALS
TRU :	66 Ci
Sr90 :	69200 Ci
Cs137 :	905000 Ci
Tc99 :	382 Ci
Pu241 :	0 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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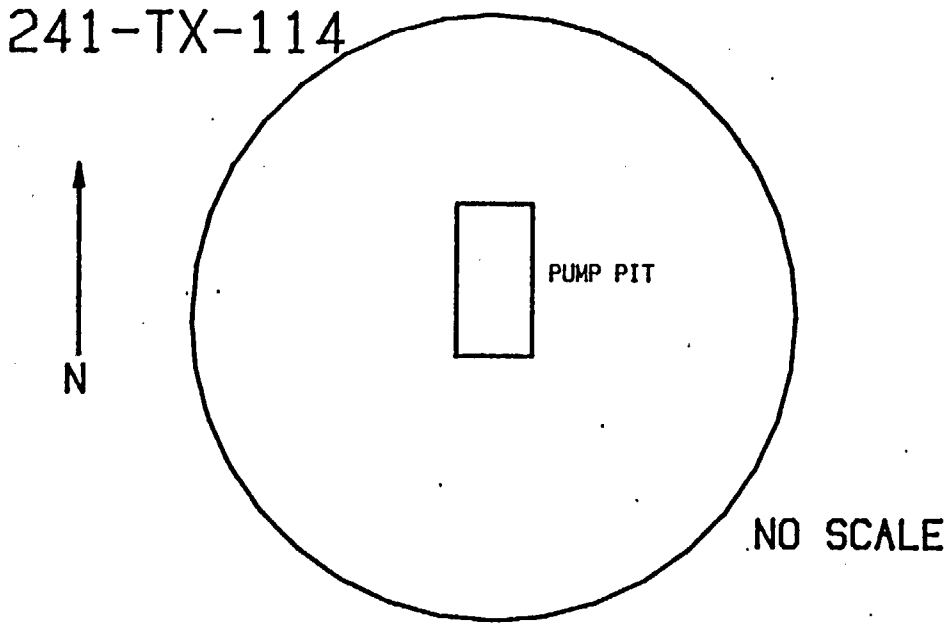
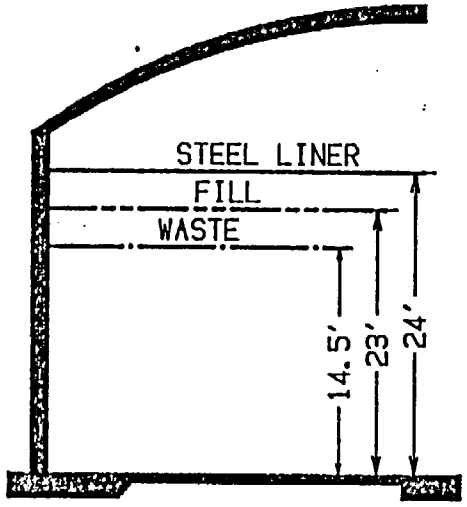
TX-114 TANK DETAILED DESCRIPTION





PRELIMINARY DATA

DESCRIPTION: 758-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 61% FULL DUE TO WASTE TRANSFERS SINCE 1952. THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SALTCAKE AND LIQUOR.

VOLUME :	469 KGALS
TRU :	18 Ci
Sr90 :	26111 Ci
Cs137 :	44102 Ci
Tc99 :	36 Ci
Pu241 :	0 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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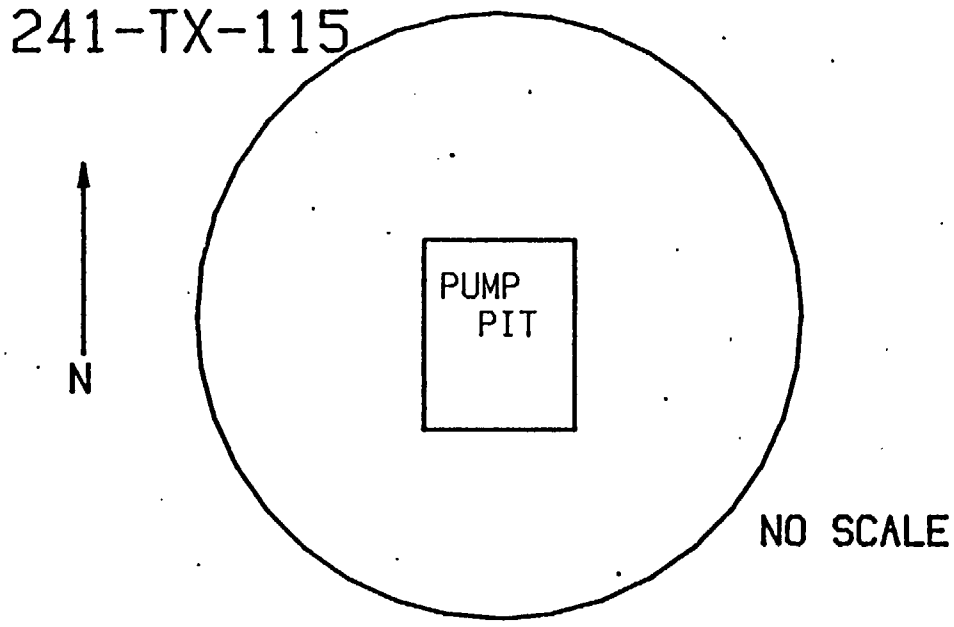
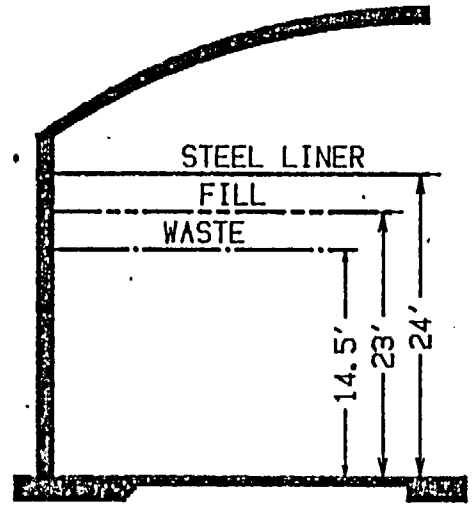
TX-115 TANK DETAILED DESCRIPTION





DESCRIPTION: 758-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 61% FULL DUE TO WASTE TRANSFERS SINCE 1952.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SALTCAKE AND LIQUOR.

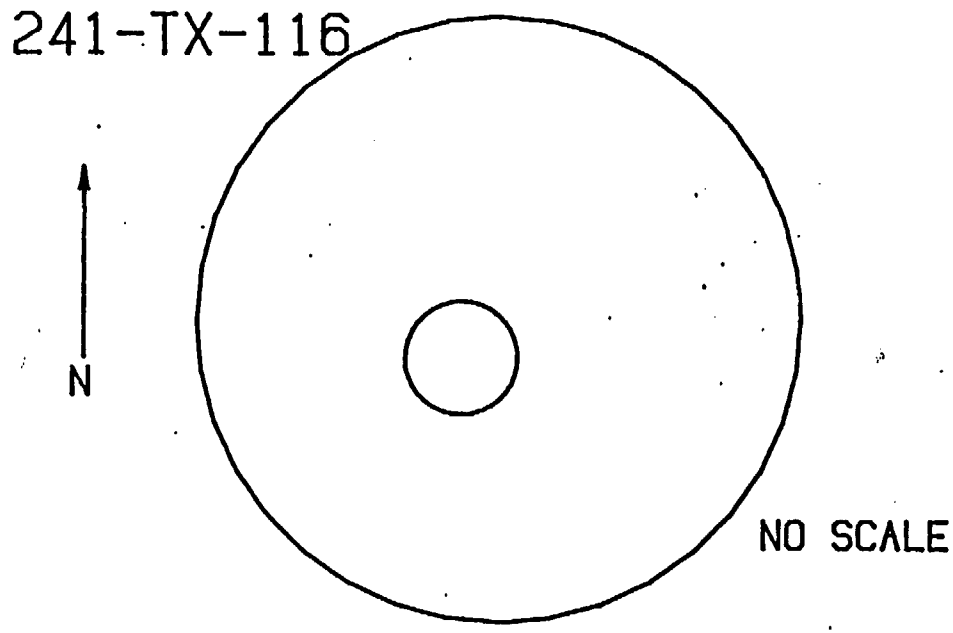
VOLUME :	466 KGALS
TRU :	57 Ci
Sr90 :	88990 Ci
Cs137 :	593457 Ci
Tc99 :	323 Ci
Pu241 :	0 Ci

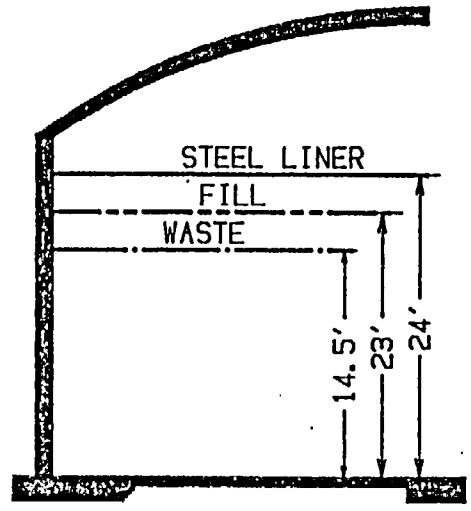
PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

EPA TOUR BOOK
Sec.C, Pg. 122

PRELIMINARY DATA

TX-116 TANK DETAILED DESCRIPTION





DESCRIPTION: 758-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 60% FULL DUE TO WASTE TRANSFERS SINCE 1952. THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SALTCAKE AND LIQUOR.

VOLUME :	455 KGALS
TRU :	0 Ci
Sr90 :	931 Ci
Cs137 :	29700 Ci
Tc99 :	8 Ci
Pu241 :	0 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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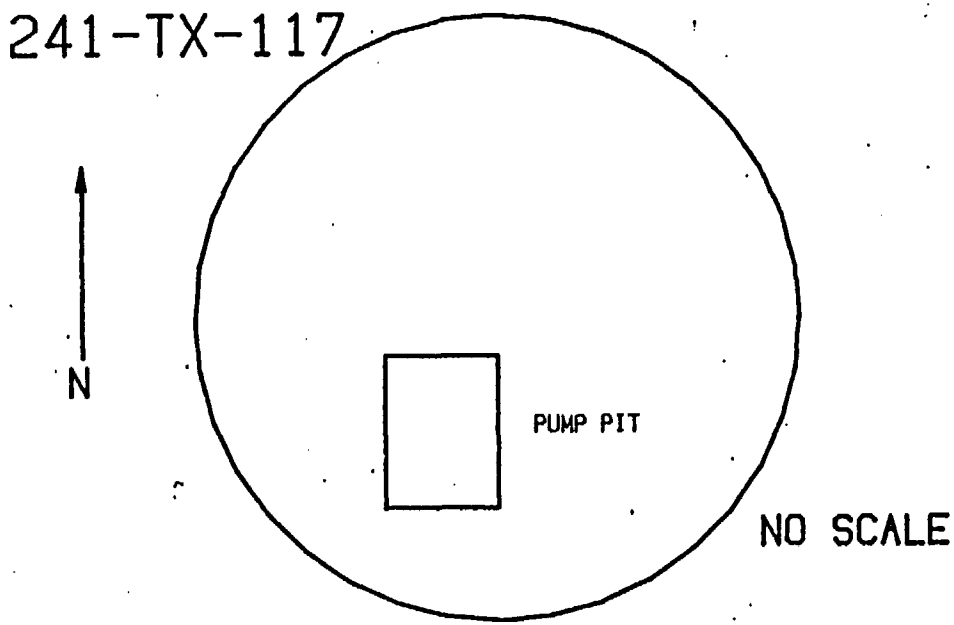
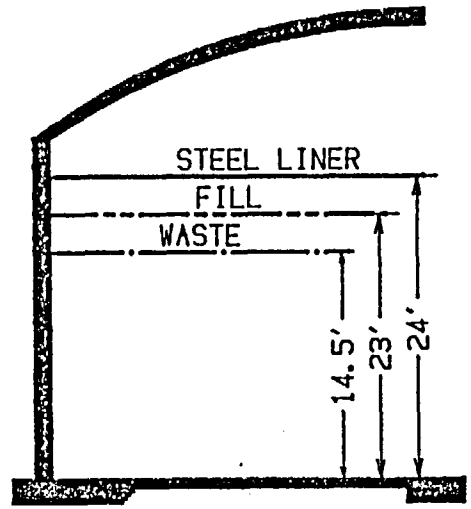
PRELIMINARY DATA

TX-117 TANK DETAILED DESCRIPTION





DESCRIPTION: 758-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 60% FULL DUE TO WASTE TRANSFERS SINCE 1952.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SALTCAKE AND LIQUOR.

VOLUME :	456 KGALS
TRU :	0 Ci
Sr90 :	4014 Ci
Cs137 :	12500 Ci
Tc99 :	3 Ci
Pu241 :	0 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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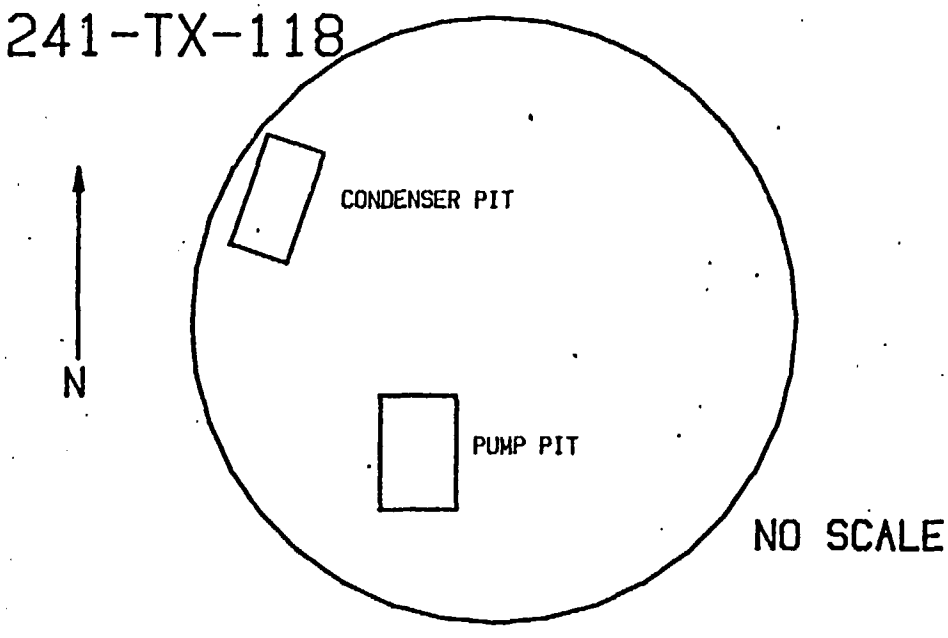
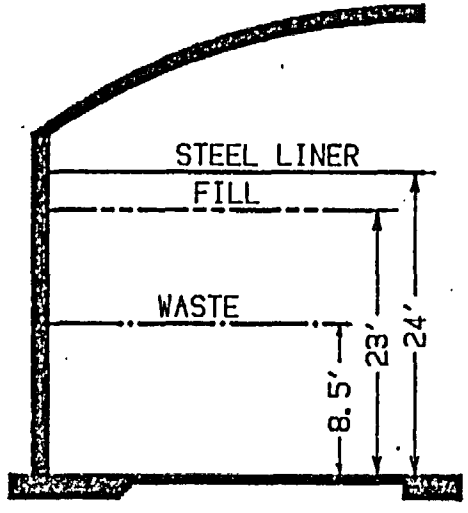
PRELIMINARY DATA

TX-118 TANK DETAILED DESCRIPTION





DESCRIPTION: 758-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 36% FULL DUE TO WASTE TRANSFERS SINCE 1952.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SALTCAKE AND LIQUOR.

VOLUME :	275 KGALS
TRU :	1244 Ci
Sr90 :	14083 Ci
Cs137 :	11992 Ci
Tc99 :	11 Ci
Pu241 :	6000 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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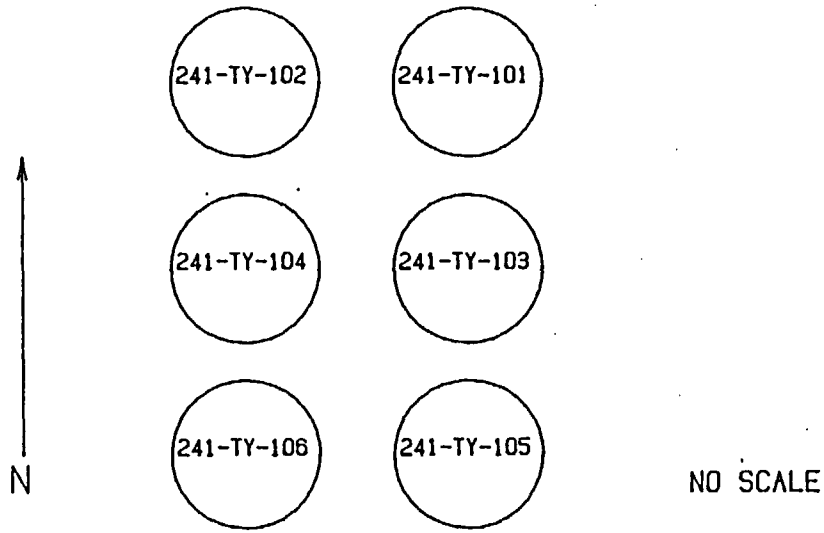
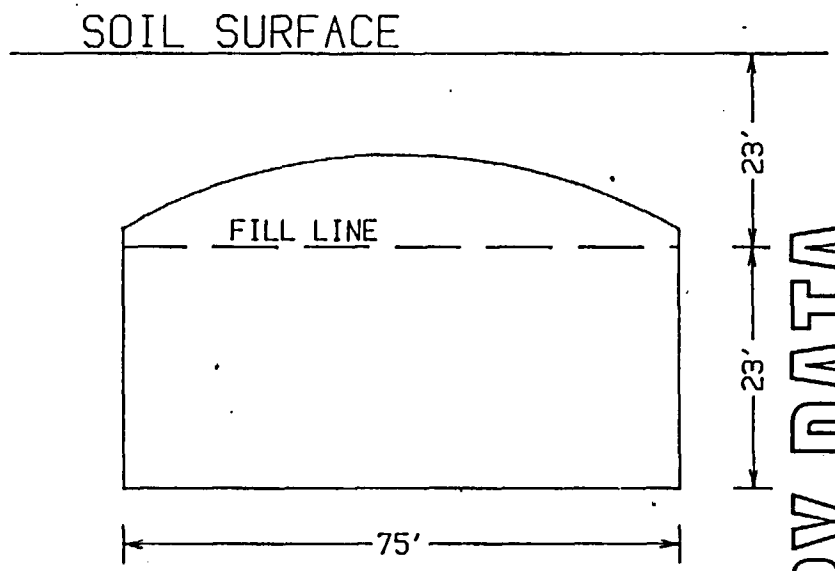
PRELIMINARY DATA

241- TY TANK FARM SUMMARY



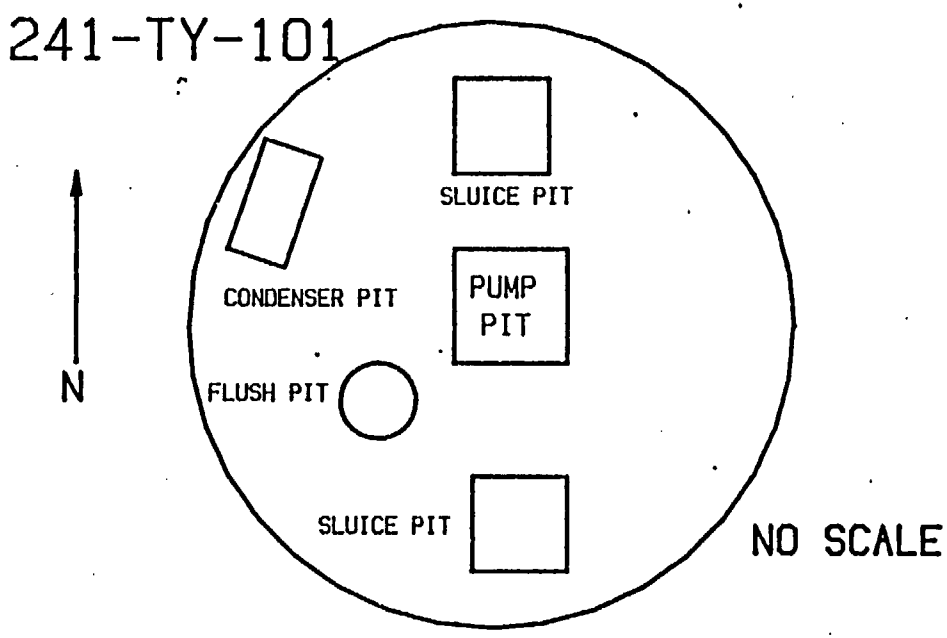


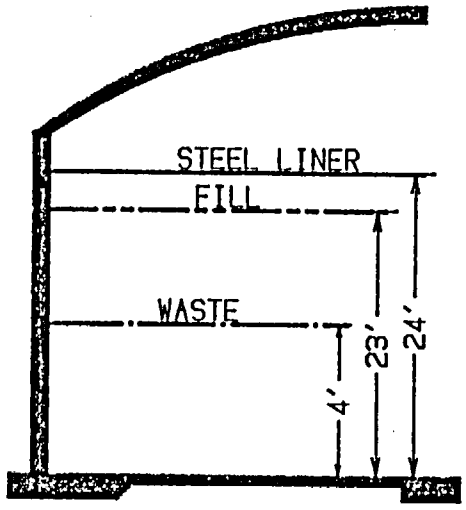
TANK NAME	FILL FRACTION	COMPLEXANT MOLES	HEAT GENERATION BTU/hr	TRU Ci	TRU NCi/g
TY-101	0.18	0	4582	343	441
TY-102	0.09	4	1558	11	28
TY-103	0.24	9	564	206	194
TY-104	0.06	0	39	0	0
TY-105	0.33	0	687	1	1
TY-106	0.02	0	11	0	1

PRELIMINARY DATA

PRE-DISPOSAL TANK STATE APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

TY-101 TANK DETAILED DESCRIPTION





DESCRIPTION: 758-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 18% FULL DUE TO WASTE TRANSFERS SINCE 1953.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SLUDGE AND LIQUOR.

VOLUME :	138 KGALS
TRU :	343 Ci
Sr90 :	5190 Ci
Cs137 :	272000 Ci
Tc99 :	55 Ci
Pu241 :	251 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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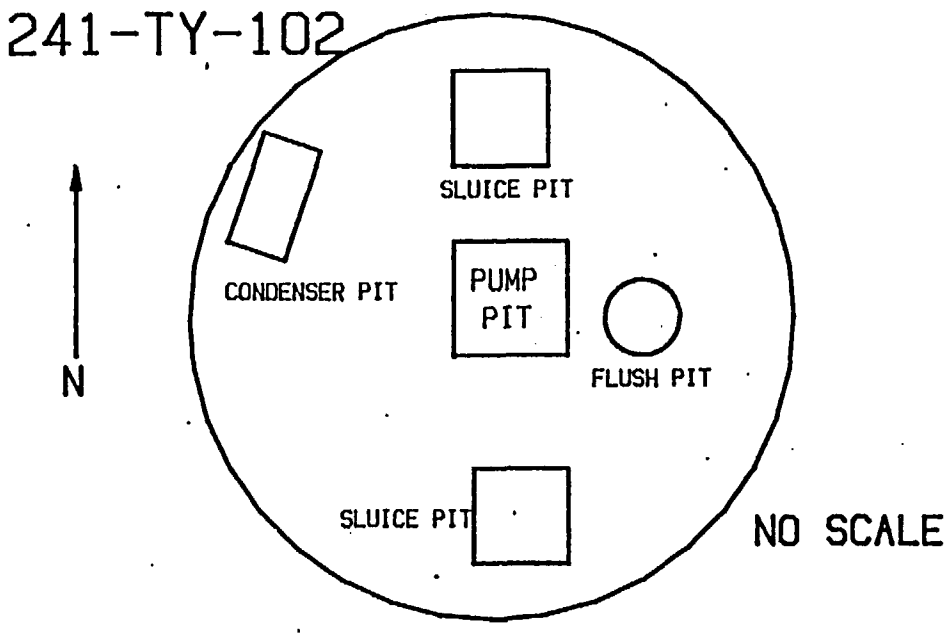
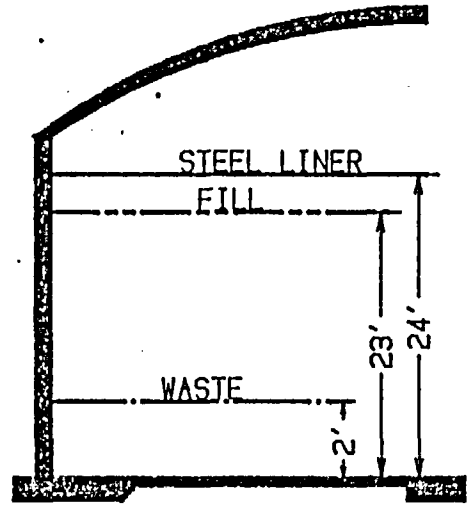
PRELIMINARY DATA

TY-102 TANK DETAILED DESCRIPTION





PRELIMINARY DATA

DESCRIPTION: 758-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 9% FULL DUE TO WASTE TRANSFERS SINCE 1953.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SALTCAKE AND LIQUOR.

VOLUME :	70 KGALS
TRU :	11 Ci
Sr90 :	1700 Ci
Cs137 :	92600 Ci
Tc99 :	69 Ci
Pu241 :	0 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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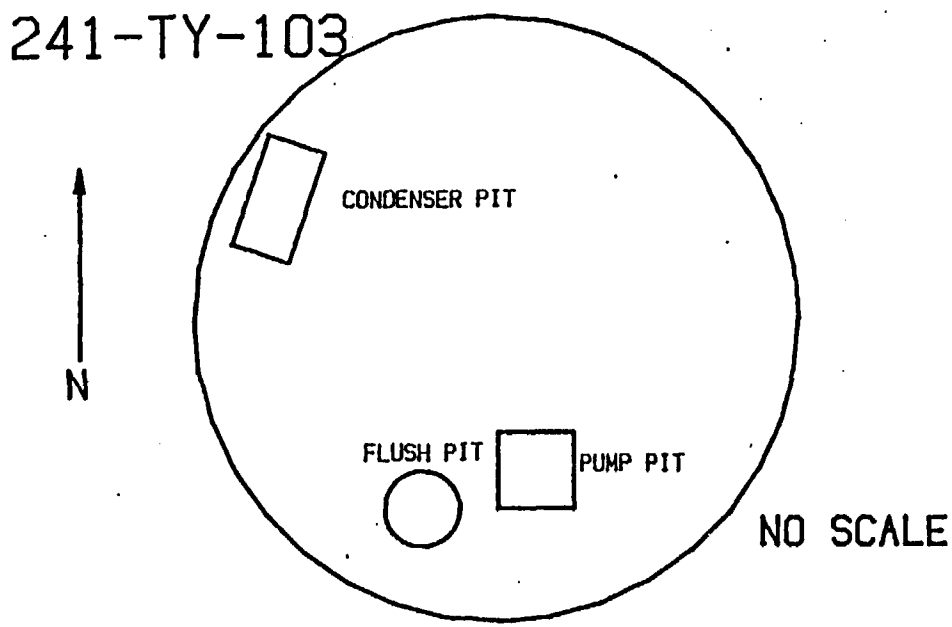
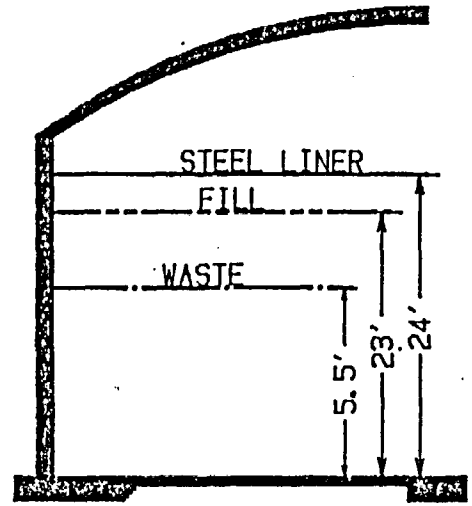
TY-103 TANK DETAILED DESCRIPTION





PRELIMINARY DATA

DESCRIPTION: 758-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 24% FULL DUE TO WASTE TRANSFERS SINCE 1953. THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SLUDGE AND LIQUOR.

VOLUME :	188 KGALS
TRU :	206 Ci
Sr90 :	7510 Ci
Cs137 :	23700 Ci
Tc99 :	106 Ci
Pu241 :	152 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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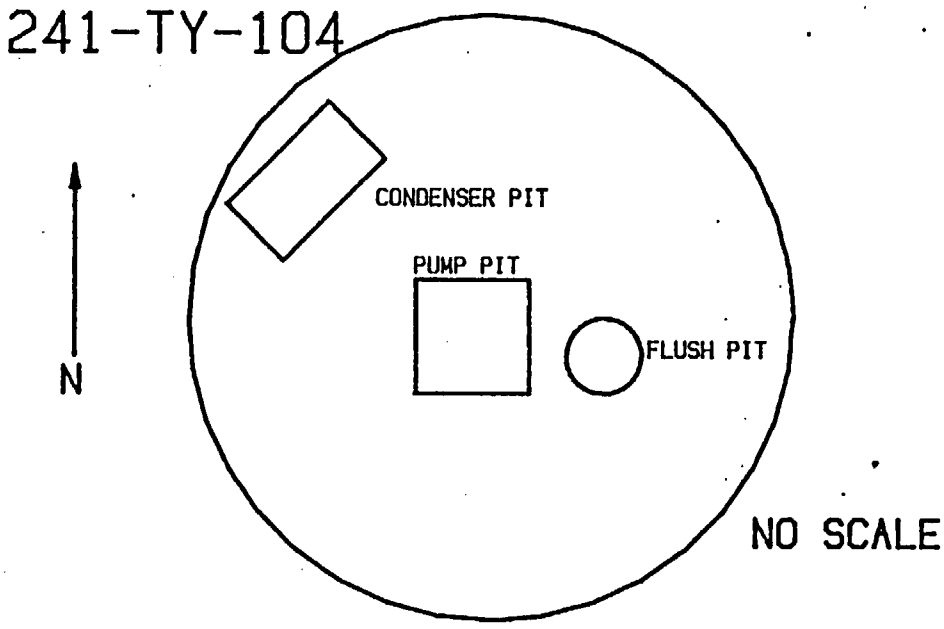
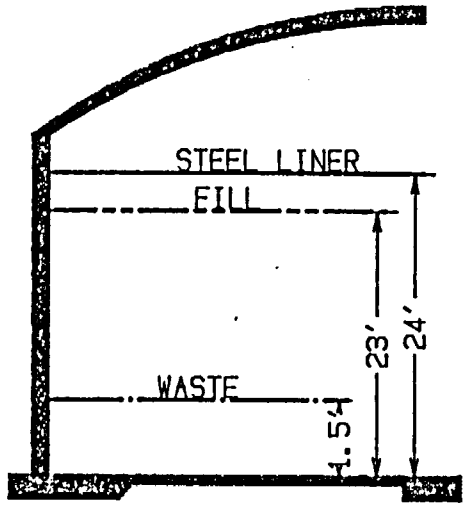
TY-104 TANK DETAILED DESCRIPTION





DESCRIPTION: 758-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 6% FULL DUE TO WASTE TRANSFERS SINCE 1953.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SLUDGE AND LIQUOR.

VOLUME :	46 KGALS
TRU :	0 Ci
Sr90 :	848 Ci
Cs137 :	1180 Ci
Tc99 :	0 Ci
Pu241 :	0 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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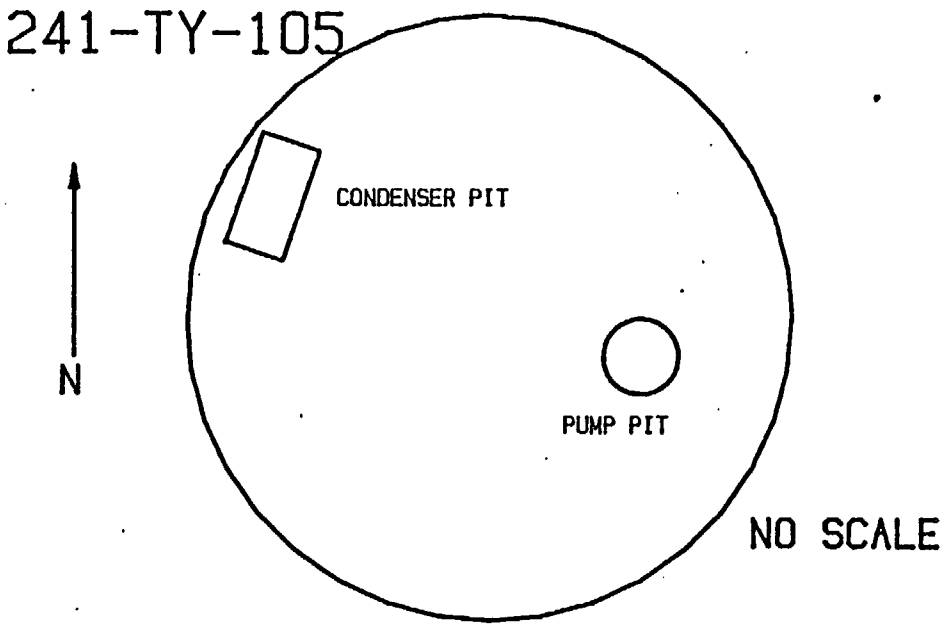
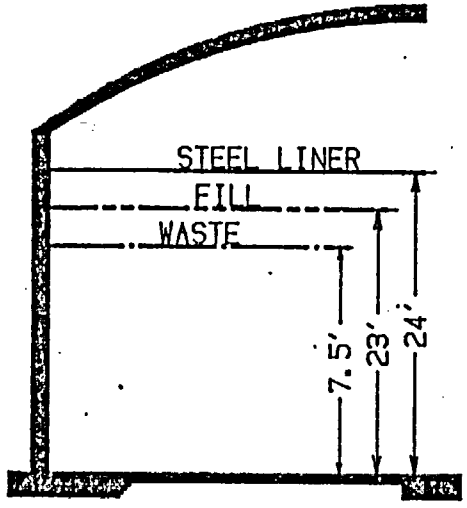
PRELIMINARY DATA

TY-105 TANK DETAILED DESCRIPTION





DESCRIPTION: 758-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 33% FULL DUE TO WASTE TRANSFERS SINCE 1953.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SLUDGE AND LIQUOR.

VOLUME :	252 KGALS
TRU :	1 Ci
Sr90 :	13400 Ci
Cs137 :	22800 Ci
Tc99 :	6 Ci
Pu241 :	0 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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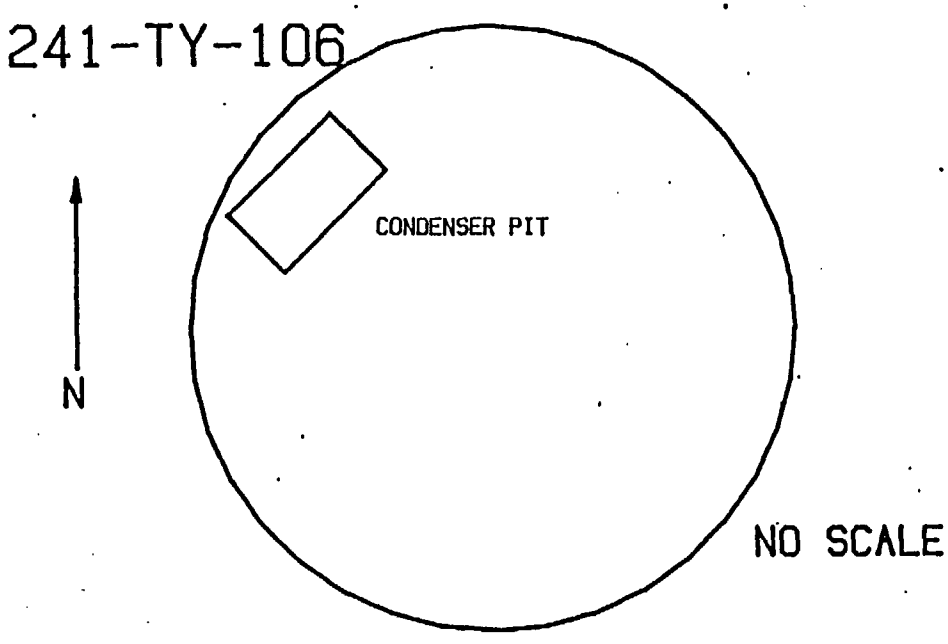
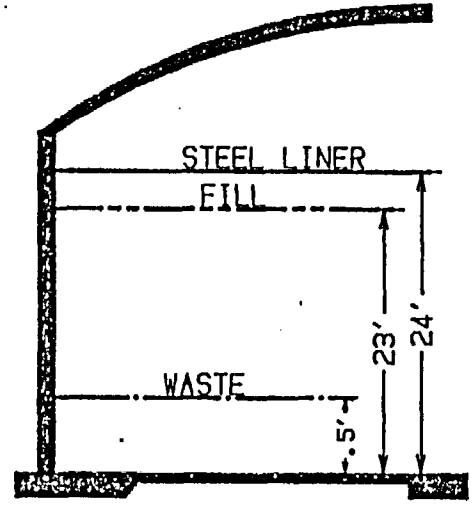
PRELIMINARY DATA

TY-106 TANK DETAILED DESCRIPTION





DESCRIPTION: 758-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 2% FULL DUE TO WASTE TRANSFERS SINCE 1953.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED SLUDGE.

VOLUME :	17 KGALS
TRU :	0 Ci
Sr90 :	4 Ci
Cs137 :	707 Ci
Tc99 :	0 Ci
Pu241 :	0 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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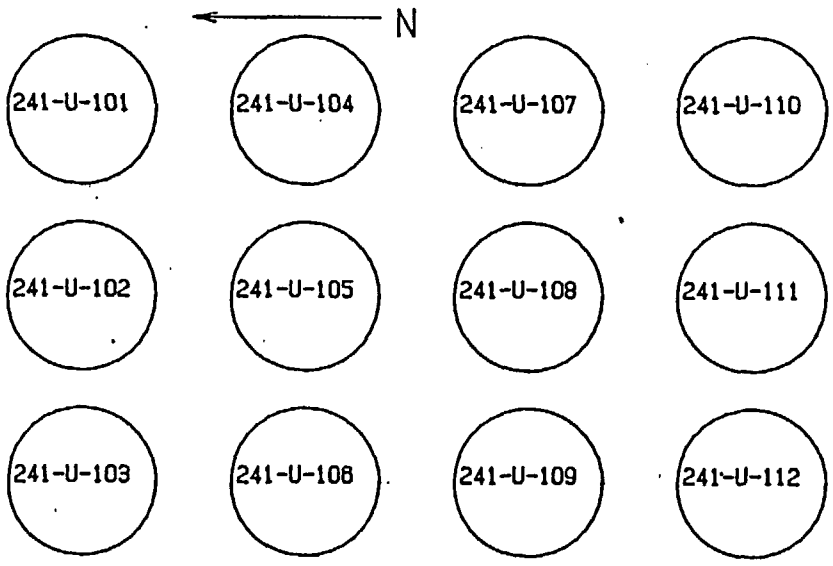
PRELIMINARY DATA

241— U TANK FARM SUMMARY



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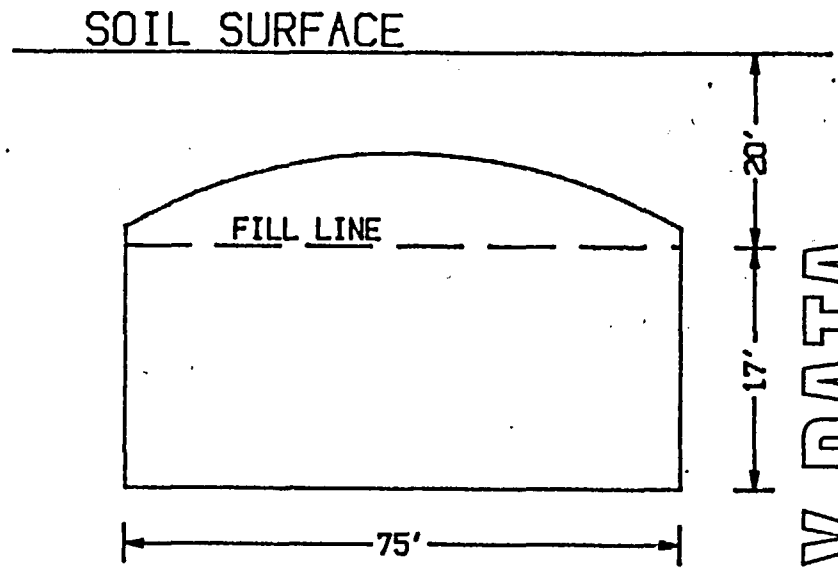
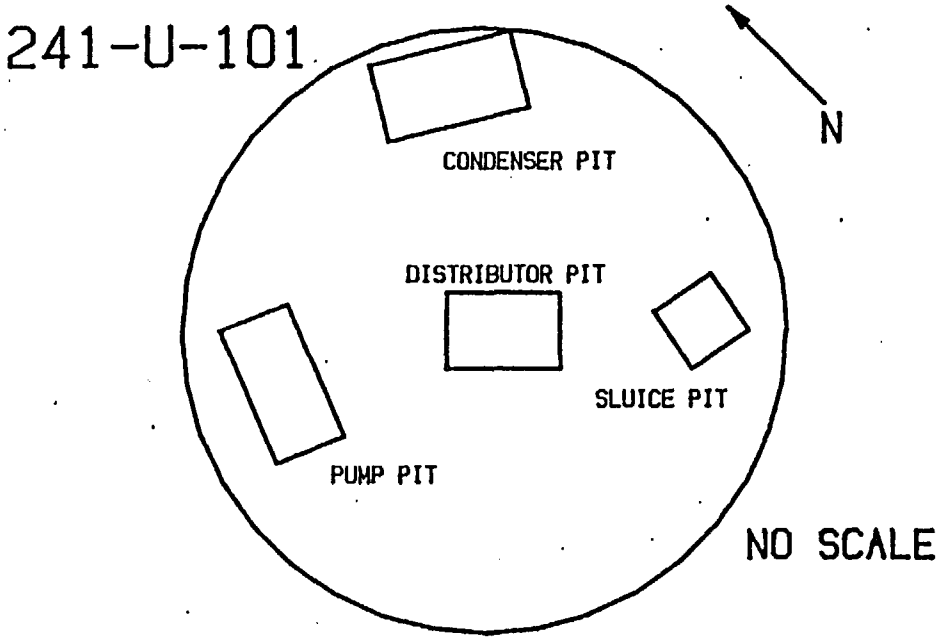


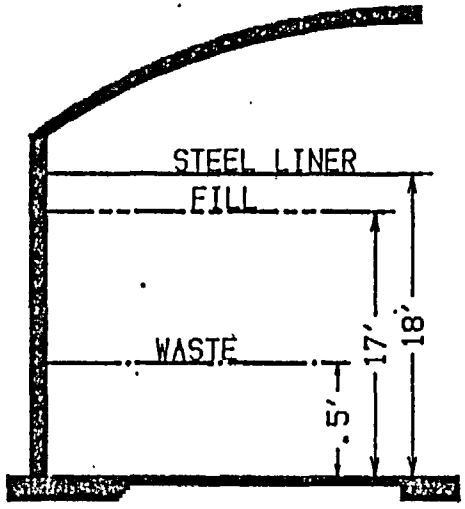
PRELIMINARY DATA

TANK NAME	FILL FRACTION	COMPLEXANT MOLES	HEAT GENERATION BTU/hr	TRU Ci	TRU NCi/g
U-101	0.04	3130	7724	183	1302
U-102	0.55	432	4532	58	34
U-103	0.67	0	3182	5	2
U-104	0.24	0	4539	38	53
U-105	0.58	29	29	1	0
U-106	0.36	0	0	0	0
U-107	0.56	7822	32790	898	535
U-108	0.65	0	2714	31	16
U-109	0.66	0	114	0	0
U-110	0.36	0	2900	173	158
U-111	0.49	691	2490	76	52
U-112	0.09	0	15246	194	707
U-201	0.09	0	0	0	0
U-202	0.09	0	0	0	0
U-203	0.05	0	0	0	0
U-204	0.05	0	16	0	0

PRE-DISPOSAL TANK STATE APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

U-101 TANK DETAILED DESCRIPTION





DESCRIPTION: 532-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 4% FULL DUE TO WASTE TRANSFERS SINCE 1946. THE WASTE WILL BE A LOW HEAT, COMPLEXED MIXTURE OF SLUDGE AND LIQUOR.

VOLUME :	25 KGALS
TRU :	183 Ci
Sr90 :	317000 Ci
Cs137 :	18700 Ci
Tc99 :	3 Ci
Pu241 :	10 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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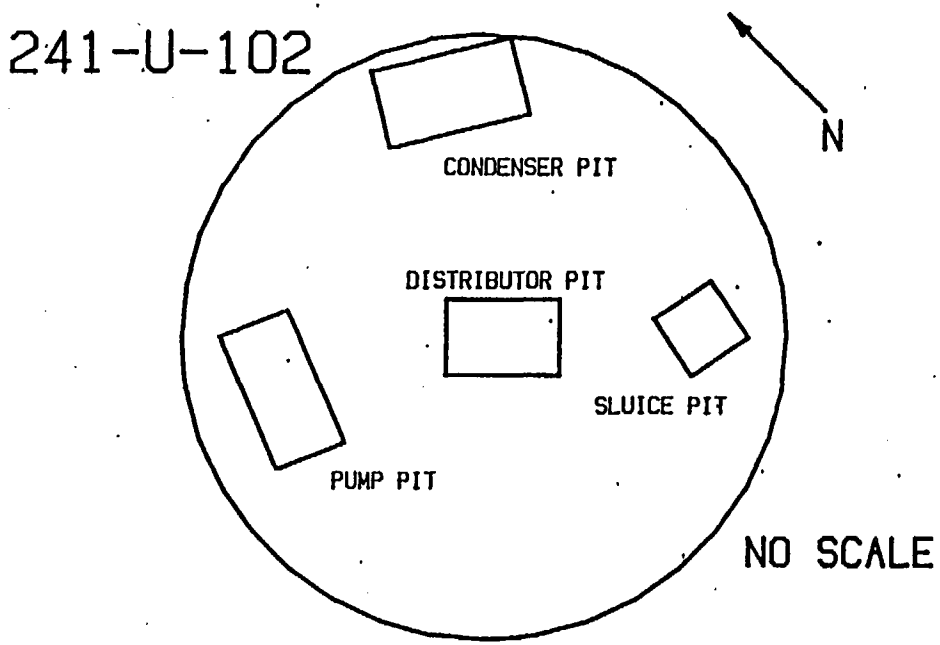
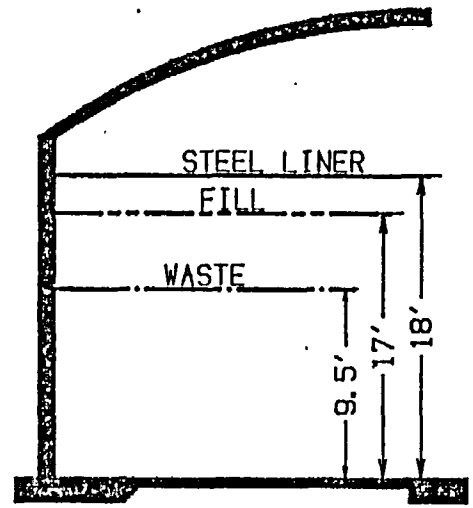
PRELIMINARY DATA

U-102 TANK DETAILED DESCRIPTION





DESCRIPTION: 532-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 55% FULL DUE TO WASTE TRANSFERS SINCE 1946.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SALTCAKE, SLUDGE AND LIQUOR.

VOLUME :	296 KGALS
TRU :	58 Ci
Sr90 :	136762 Ci
Cs137 :	81250 Ci
Tc99 :	26 Ci
Pu241 :	9 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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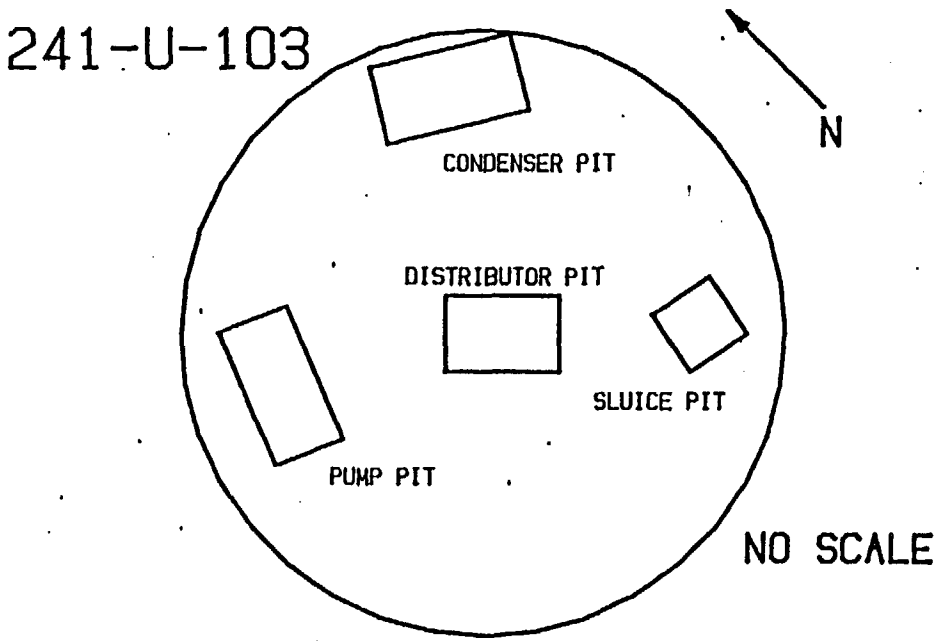
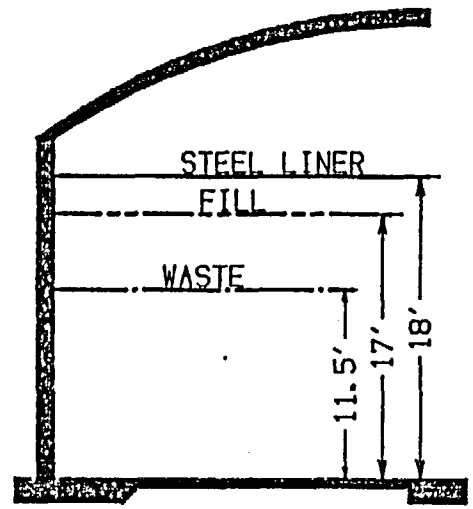
PRELIMINARY DATA

U-103 TANK DETAILED DESCRIPTION





DESCRIPTION: 532-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 67% FULL DUE TO WASTE TRANSFERS SINCE 1953.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SALTCAKE, SLUDGE AND LIQUOR.

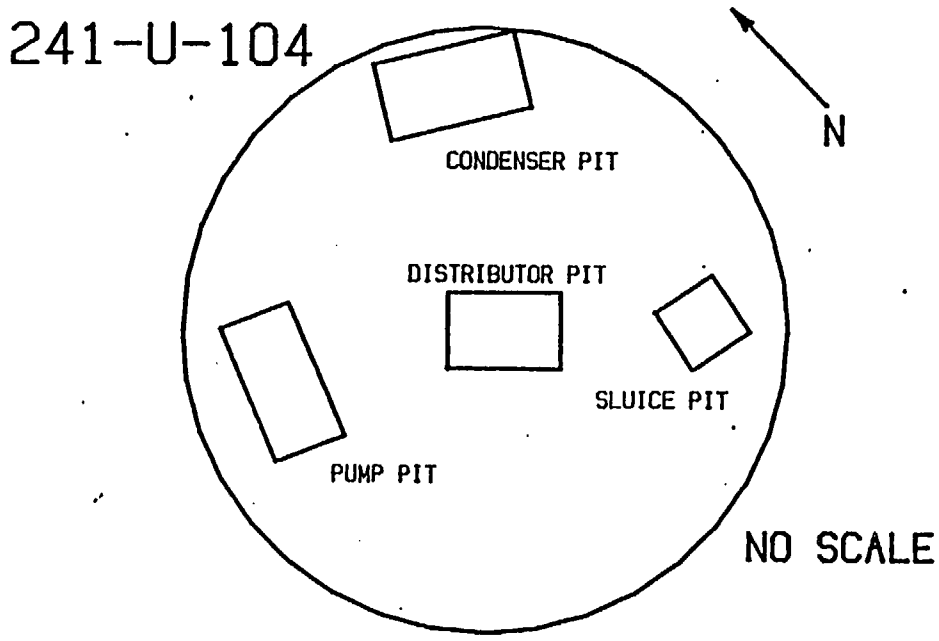
VOLUME :	356 KGALS
TRU :	5 Ci
Sr90 :	135998 Ci
Cs137 :	11 Ci
Tc99 :	0 Ci
Pu241 :	1 Ci

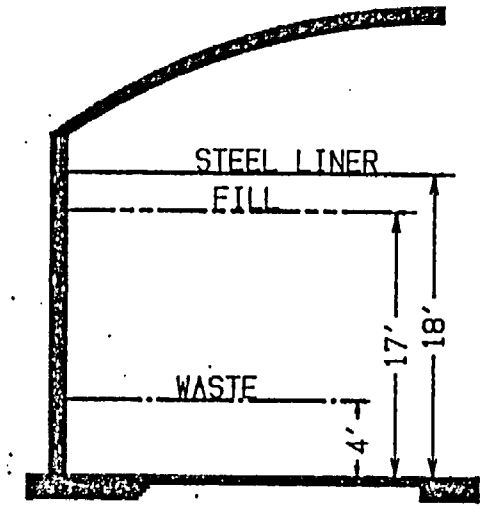
PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

EPA TOUR BOOK
Sec.C, Pg. 136

PRELIMINARY DATA

U-104 TANK DETAILED DESCRIPTION





DESCRIPTION: 532-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 24% FULL DUE TO WASTE TRANSFERS SINCE 1947. THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SLUDGE AND LIQUOR.

VOLUME :	129 KGALS
TRU :	38 Ci
Sr90 :	194000 Ci
Cs137 :	0 Ci
Tc99 :	0 Ci
Pu241 :	18 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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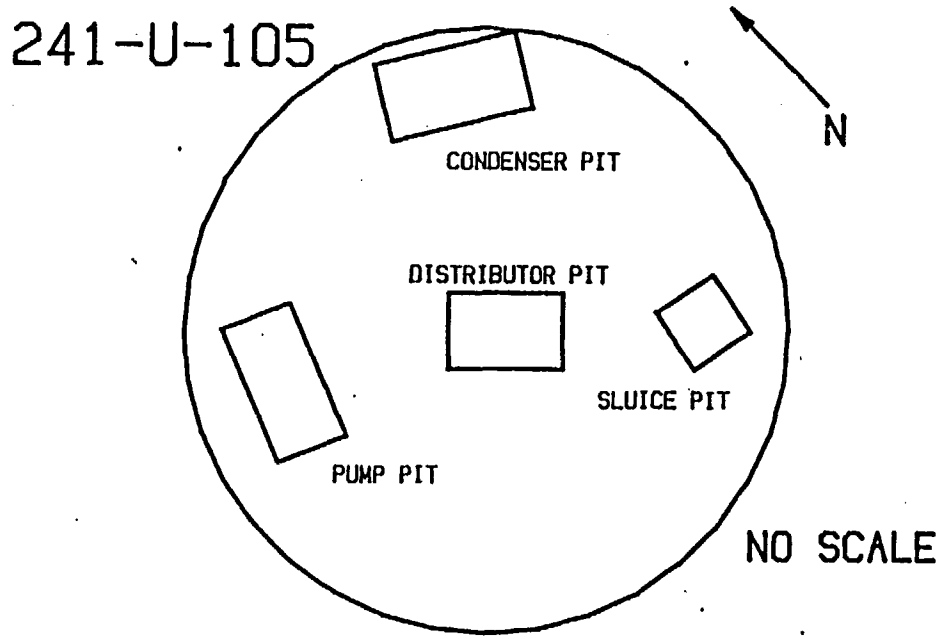
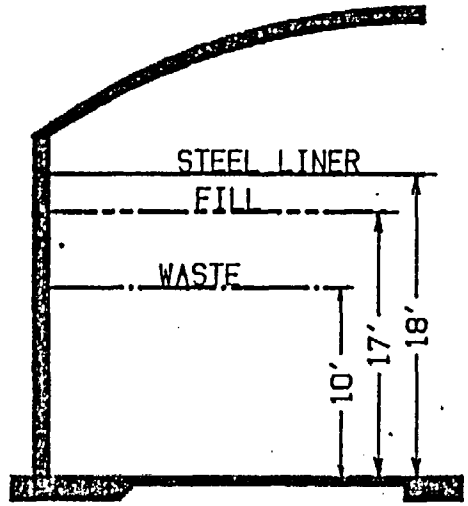
PRELIMINARY DATA

U-105 TANK DETAILED DESCRIPTION





DESCRIPTION: 532-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 58% FULL DUE TO WASTE TRANSFERS SINCE 1947.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SALTCAKE, SLUDGE AND LIQUOR.

VOLUME :	308 KGALS
TRU :	1 Ci
Sr90 :	859 Ci
Cs137 :	559 Ci
Tc99 :	0 Ci
Pu241 :	0 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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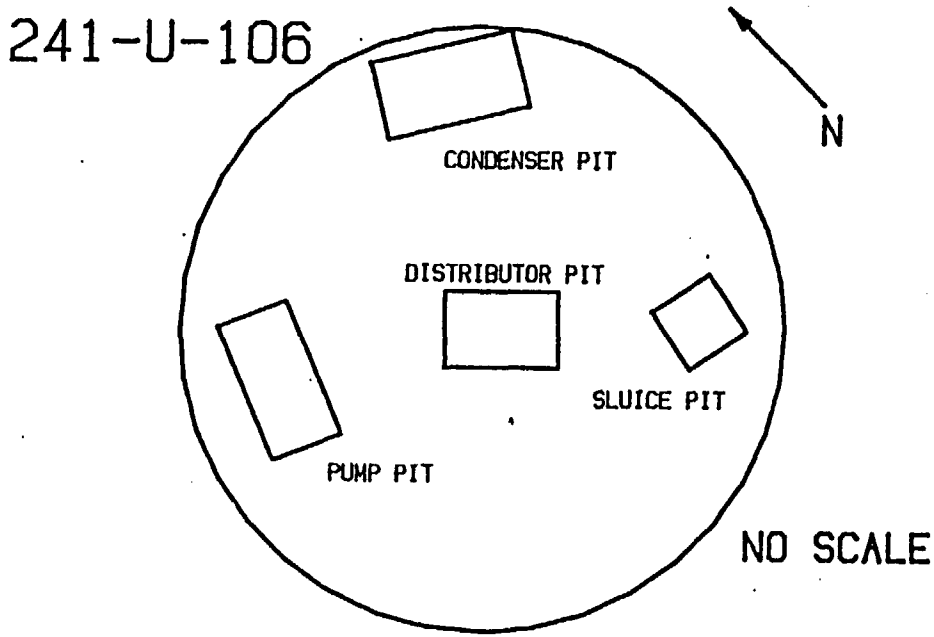
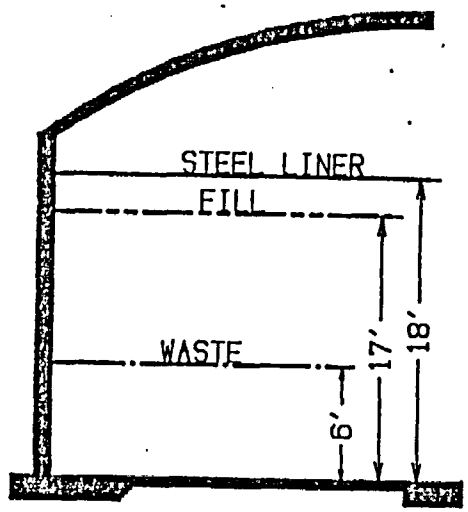
PRELIMINARY DATA

U-106 TANK DETAILED DESCRIPTION





DESCRIPTION: 532-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 36% FULL DUE TO WASTE TRANSFERS SINCE 1953.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SALTCAKE, SLUDGE AND LIQUOR.

VOLUME :	196 KGALS
TRU :	0 Ci
Sr90 :	0 Ci
Cs137 :	0 Ci
Tc99 :	0 Ci
Pu241 :	0 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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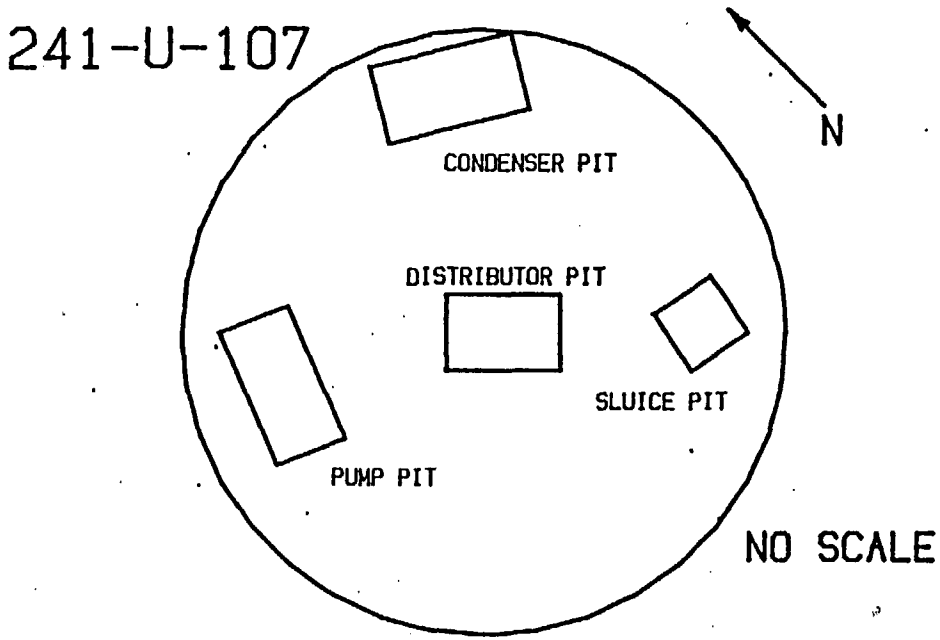
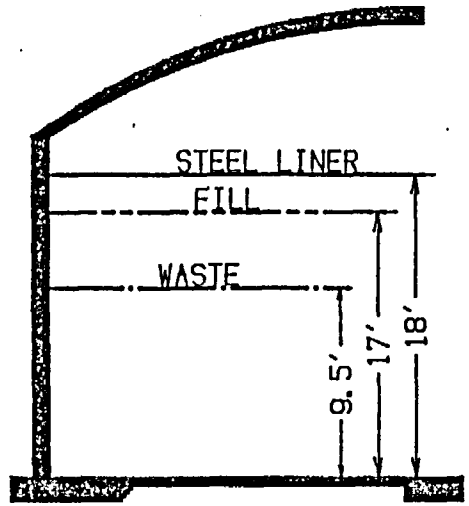
PRELIMINARY DATA

U-107 TANK DETAILED DESCRIPTION





PRELIMINARY DATA

DESCRIPTION: 532-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 56% FULL DUE TO WASTE TRANSFERS SINCE 1948.
THE WASTE WILL BE A HIGH HEAT, COMPLEXED MIXTURE OF SALTCAKE, SLUDGE AND LIQUOR.

VOLUME :	299 KGALS
TRU :	898 Ci
Sr90 :	1089570 Ci
Cs137 :	444785 Ci
Tc99 :	628 Ci
Pu241 :	15 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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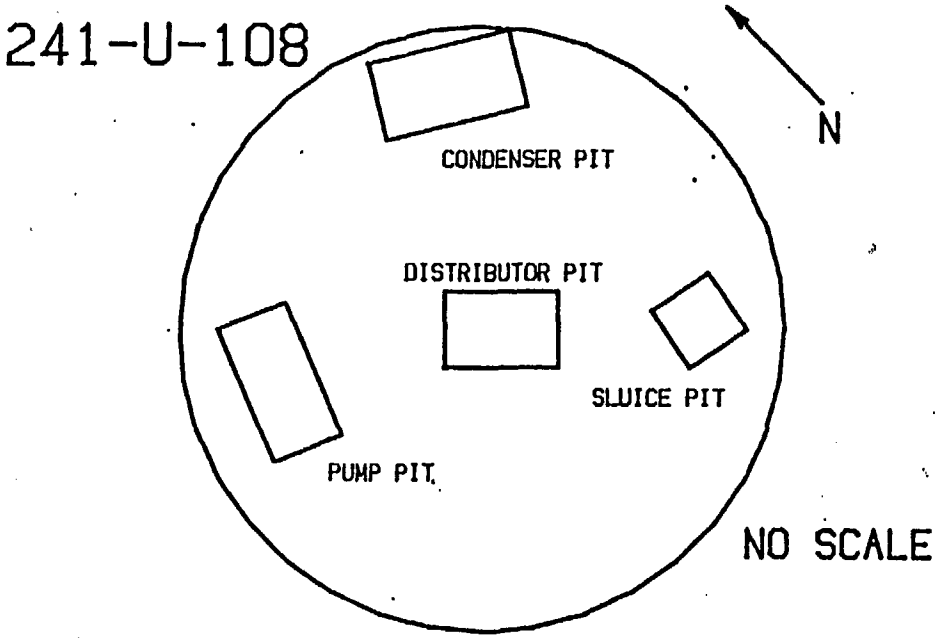
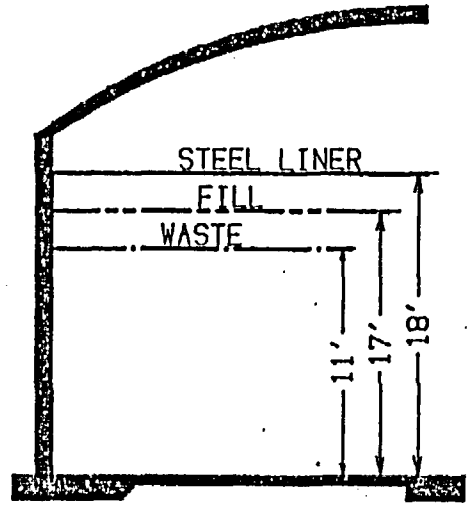
U-108 TANK DETAILED DESCRIPTION





PRELIMINARY DATA

DESCRIPTION: 532-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 65% FULL DUE TO WASTE TRANSFERS SINCE 1949.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SALTCAKE, SLUDGE AND LIQUOR.

VOLUME :	348 KGALS
TRU :	31 Ci
Sr90 :	115997 Ci
Cs137 :	26 Ci
Tc99 :	0 Ci
Pu241 :	72 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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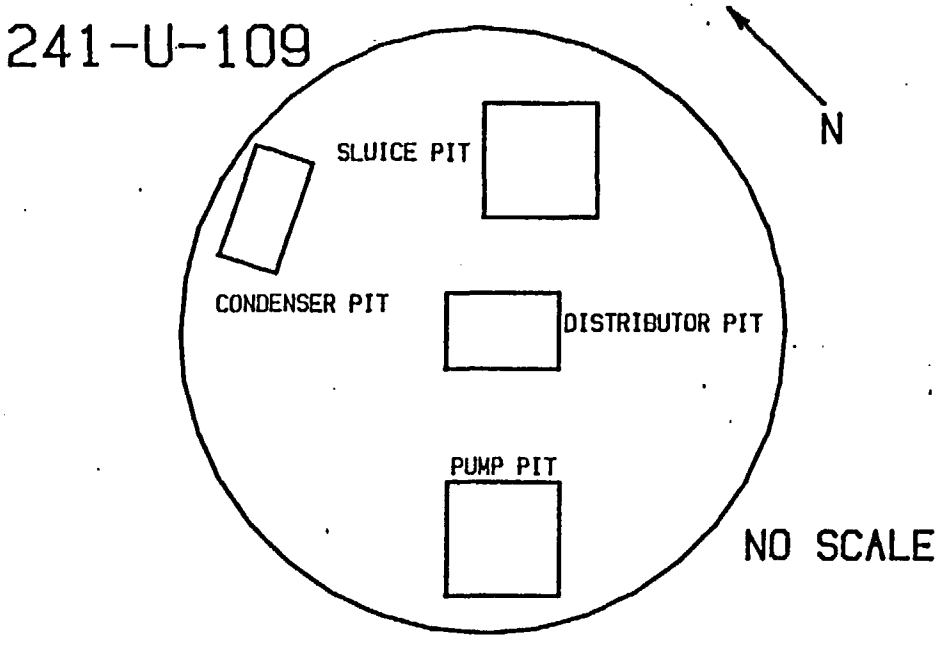
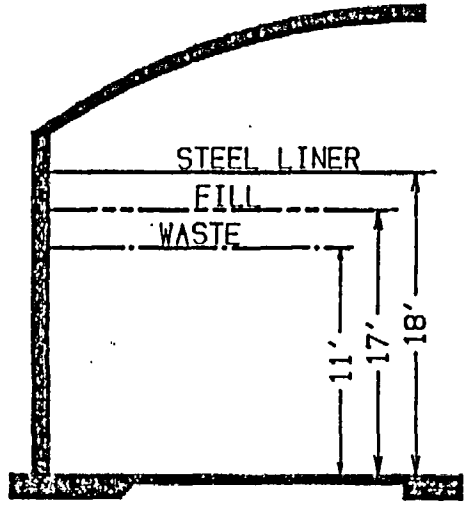
U-109 TANK DETAILED DESCRIPTION





DESCRIPTION: 532-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 66% FULL DUE TO WASTE TRANSFERS SINCE 1953.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SALTCAKE, SLUDGE AND LIQUOR.

VOLUME :	355 KGALS
TRU :	0 Ci
Sr90 :	0 Ci
Cs137 :	6954 Ci
Tc99 :	1 Ci
Pu241 :	0 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

EPA TOUR BOOK
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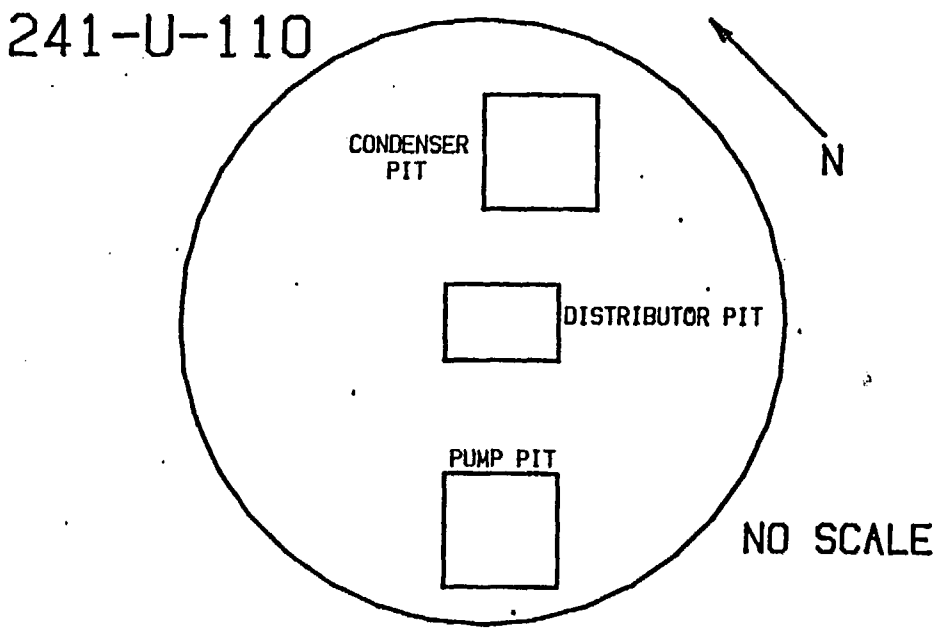
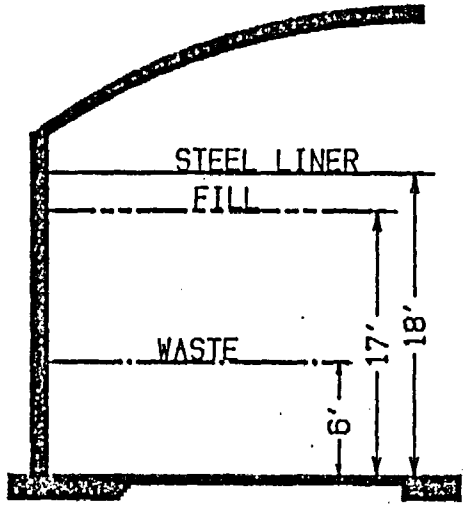
PRELIMINARY DATA

U-110 TANK DETAILED DESCRIPTION





DESCRIPTION: 532-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 36% FULL DUE TO WASTE TRANSFERS SINCE 1946.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SLUDGE AND LIQUOR.

VOLUME :	194 KGALS
TRU :	173 Ci
Sr90 :	117000 Ci
Cs137 :	9930 Ci
Tc99 :	2 Ci
Pu241 :	249 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

EPA TOUR BOOK
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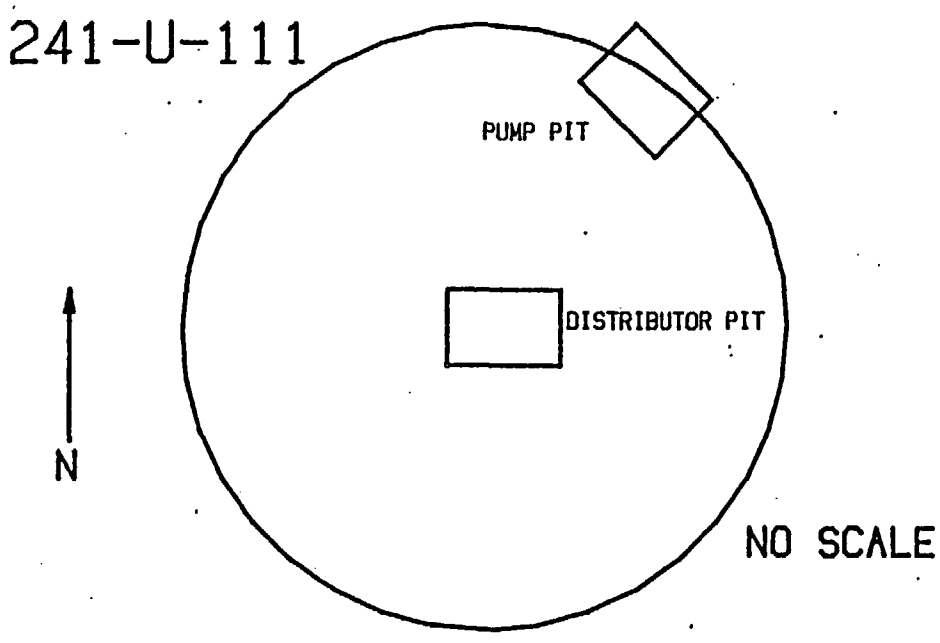
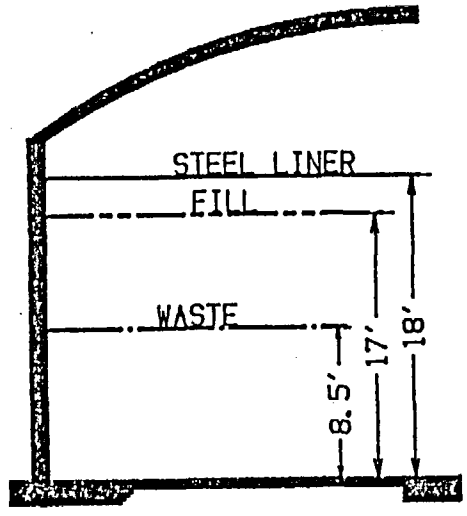
PRELIMINARY DATA

U-111 TANK DETAILED DESCRIPTION





PRELIMINARY DATA

DESCRIPTION: 532-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 49% FULL DUE TO WASTE TRANSFERS SINCE 1947. THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SALTCAKE, SLUDGE AND LIQUOR.

VOLUME :	261 KGALS
TRU :	76 Ci
Sr90 :	78625 Ci
Cs137 :	39694 Ci
Tc99 :	55 Ci
Pu241 :	0 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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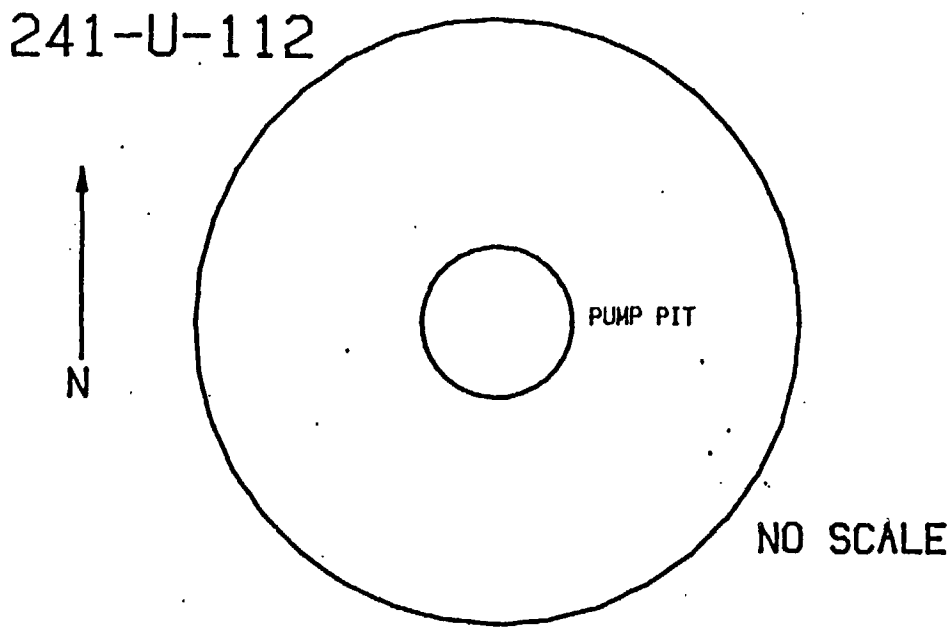
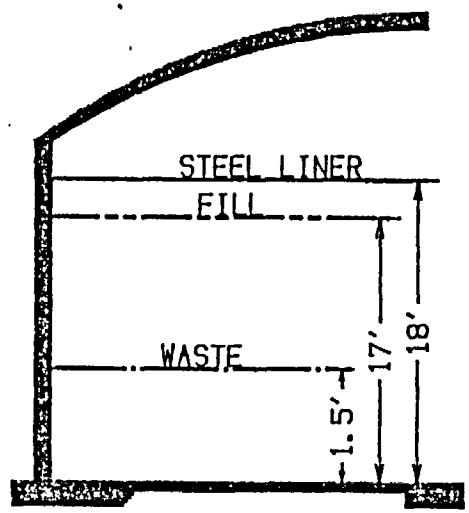
U-112 TANK DETAILED DESCRIPTION





PRELIMINARY DATA

DESCRIPTION: 532-KGAL SST WHICH IN PREDISPOSAL STATE WILL BE 9% FULL DUE TO WASTE TRANSFERS SINCE 1954.
THE WASTE WILL BE A LOW HEAT, NON-COMPLEXED MIXTURE OF SLUDGE AND LIQUOR.

VOLUME :	49 KGALS
TRU :	194 Ci
Sr90 :	360000 Ci
Cs137 :	416000 Ci
Tc99 :	95 Ci
Pu241 :	210 Ci

PRE-DISPOSAL TANK STATE, APPROXIMATELY 1985. MATERIALS ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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SECTION M - ENGINEERED BARRIER TEST

Single Shell Tank Sampling Plan

WISP Validation

Tank Name	Core Samples	Waste Stream Characterized
B-110	1	Bismuth Phosphate - Second Cycle Waste
BY-108	1	Tributyl Phosphate Waste
C-102	1	PUREX - Coating Wastes and Organic Wash Wastes and Thoria - All Wastes
C-105	1	PUREX - Coating Waste, Tributyl Phosphate Waste and PUREX Sludges from AR Vault
C-106	1	PUREX Sludges From AR Vault
C-110	1	Bismuth Phosphate - Second Cycle Waste and PUREX Organic Wash Waste
S-104	1	Redox - High Level and Coating Wastes (Intermingled)
S-107	1	Redox - High Level and Coating Wastes and Salt Cake
SX-112	1	Redox - High Level Wastes
T-101	1	Redox - Coating Waste
T-110	1	Bismuth Phosphate - Second Cycle Waste and Lanthanum Fluoride Waste (Intermingled)
TX-118	1	Building 234-5 Waste
TY-101	1	Bismuth Phosphate - First Cycle Waste

Single Shell Tank Sampling Plan
WISP Validation

Tank Name	Core Samples	Waste Volume Characterized
S-104, S-105, S-106	4	Cascaded amounts
OR		
S-110, S-111, S-112	5	Cascaded amounts
OR		
T-110, T-111, T-112	4	Cascaded amounts
SX-112	2	Non-cascaded amount
OR		
TY-101	2	Non-cascaded amount

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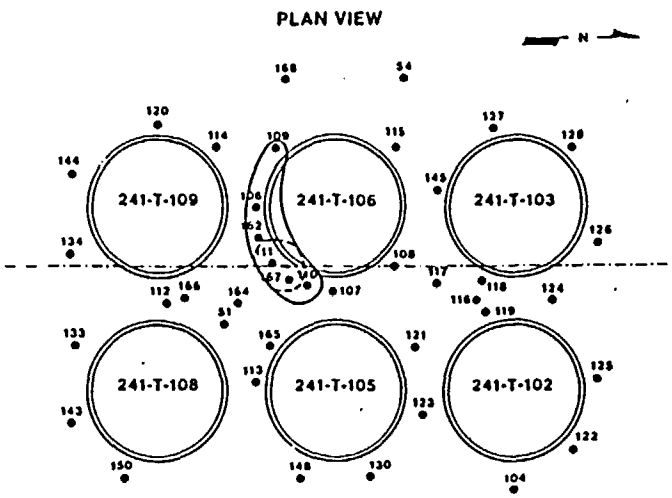
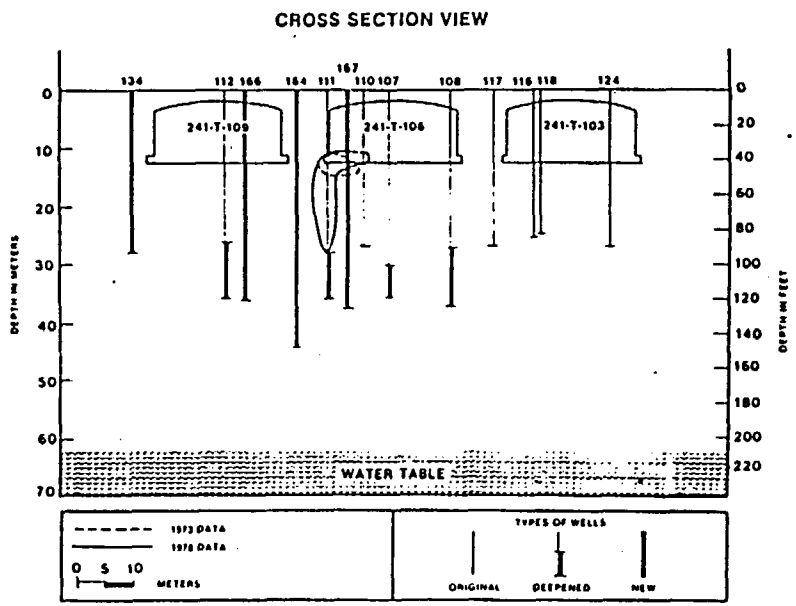
SECTION M - ENGINEERED BARRIER TEST

Single Shell Tank Leak Data

	Tank	Tank Suspect	Year Leak Confirmed	Built	First Used	Years Leaked	Est. Amt. Leaked Volume Gal.
1.	104-U	1956	1961	1943-44	1947		55,000
2.	113-SX	1958	1962	1953-54	1958		15,000
3.	106-TY	1959	1959	1951-52	1953		20,000
4.	101-U	1959	1959	1943-44	1946		30,000
5.	105-TY	1960	1960	1951-52	1953		35,000
6.	108-SX	1962	1962	1953-54	1955		2,400
7.	105-A	1963	1963	1954-55	1963		Small
8.	107-SX	1964	1964	1953-54	1955		Small
9.	109-SX	1965	1965	1953-54	1955		Small
10.	115-SX	1965	1965	1953-54	1958		50,000
11.	112-SX	1969	1969	1953-54	1956		30,000
12.	102-BX	1971	1971	1946-47	1948		70,000
13.	108-BY	1972	1972	1948-49	1954		Small
14.	103-BY	1973	1973	1948-49	1951		Small
15.	106-T	1973	1973	1943-44	1945	1973	115,000
16.	103-TY	1973	1973	1951-52	1953		3,000
17.	108-BX	1974	1974	1946-47	1948		2,500
18.	111-SX	1974	1974	1953-54	1955		2,000
19.	104-A	1975	1975	1954-55	1963		1,500
20.	110-U	1975	1975	1943-44	1946	1975	8,100
21.	107-B	1968	1980	1943-44	1945	1968-1969	8,000
22.	201-B	1968	1980	1943-44	1945	1968-1971	1,200
23.	101-C	1968	1980	1943-44	1946	1968-1969	20,000
24.	112-U	1969	1980	1943-44	1947	1969-1970	8,500
25.	110-B	1969	1981	1943-44	1945	1969-1971	10,000
26.	104-TY	1973	1981	1951-52	1953		1,400
27.	203-B	1980	1983	1943-44	1945	1976-1980	NA

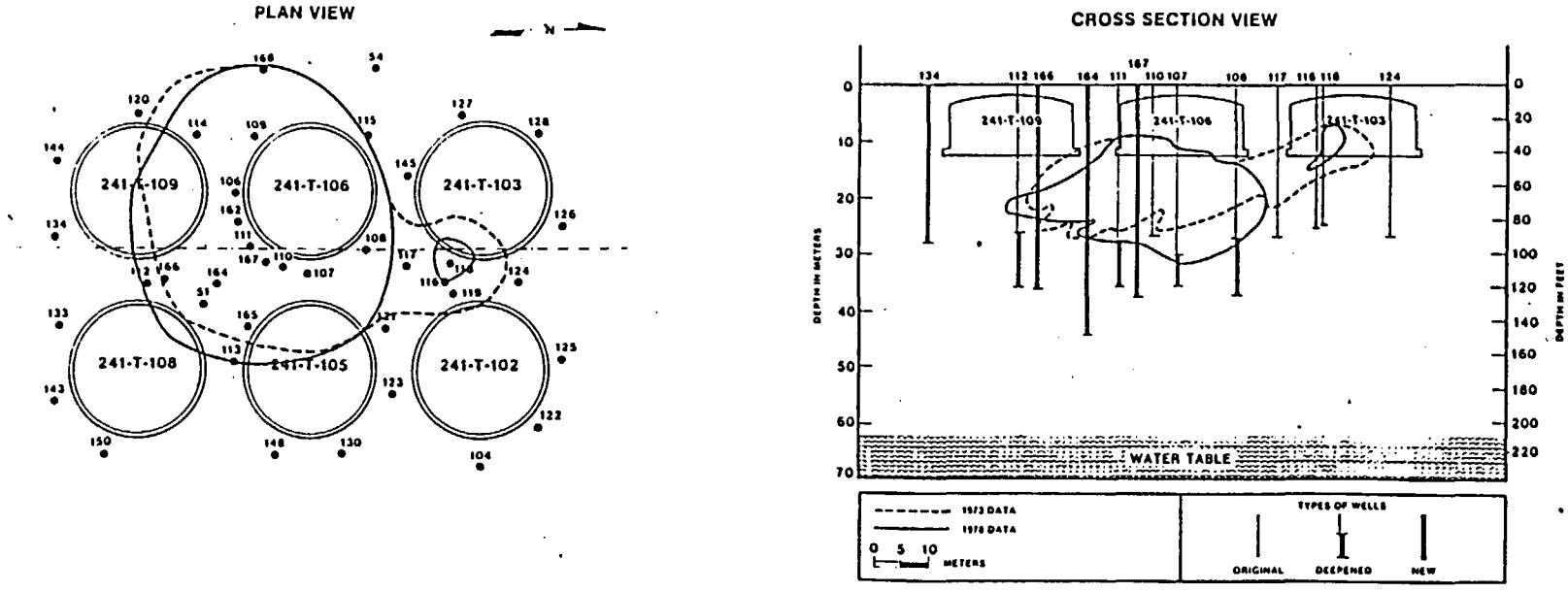
T-106 Tank





Plan and Cross Section View Through a Portion
241-T Tank Farm with 1-uCi/ℓ Cs137 Isopleth
Distribution Pattern

T-106 Tank



Plan and Cross Section View Through a Portion of 241-T Tank Farm with 1-uCi/ℓ Ru106 Isopleth Distribution Pattern

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Double Shell Tank Summary Data

NAME	AREA	STATUS	DESCRIPTION (1)	TRU CI (2)
AN FARM	200E	ACTIVE	7, 1144 KGAL TANKS	7522.00
AN-101	200E	ACTIVE	DOUBLE SHELL SLURRY	1019.00
AN-102	200E	ACTIVE	COMPLEXANT CONCENTRATE	31.00
AN-103	200E	ACTIVE	DOUBLE SHELL SLURRY	1337.00
AN-104	200E	ACTIVE	DOUBLE SHELL SLURRY	1753.00
AN-105	200E	ACTIVE	DOUBLE SHELL SLURRY	1469.00
AN-106	200E	ACTIVE	DOUBLE SHELL SLURRY	1453.00
AN-107	200E	ACTIVE	COMPLEXANT CONCENTRATE	460.00
AW FARM	200E	ACTIVE	6, 1144 KGAL TANKS	7204.00
AW-101	200E	ACTIVE	COMPLEXANT CONCENTRATE	1015.00
AW-102	200E	ACTIVE	DOUBLE SHELL SLURRY	1435.00
AW-103	200E	ACTIVE	DOUBLE SHELL SLURRY	1204.00
AW-104	200E	ACTIVE	DOUBLE SHELL SLURRY	1328.00
AW-105	200E	ACTIVE	DOUBLE SHELL SLURRY	1433.00
AW-106	200E	ACTIVE	DOUBLE SHELL SLURRY	789.00
AY FARM	200E	ACTIVE	2, 1000 KGAL TANKS	860.00
AY-101	200E	ACTIVE	DOUBLE SHELL SLURRY	765.00
AY-102	200E	ACTIVE	DOUBLE SHELL SLURRY	95.00
AZ FARM	200E	ACTIVE	2, 1000 KGAL TANKS	350.00
AZ-101	200E	ACTIVE	DOUBLE SHELL SLURRY	260.00
AZ-102	200E	ACTIVE	DOUBLE SHELL SLURRY	90.00
SY FARM	200W	ACTIVE	3, 1144 KGAL TANKS	2876.00
SY-101	200W	ACTIVE	CMPLX. CONC., SALTCAKE, SLURRY	370.00
SY-102	200W	ACTIVE	SALTCAKE AND SLURRY	1233.00
SY-103	200W	ACTIVE	DOUBLE SHELL SLURRY	1273.00

(1) EXISTING WASTE ESTIMATE AFTER COMPLETION OF INTERIM WASTE MANAGEMENT
(2) APPROXIMATION OF TRU IN EXISTING WASTE AFTER COMPLETION OF INTERIM WASTE MANAGEMENT

PAGE 1

PRELIMINARY DATA

Double Shell Tank Summary Data

		EXISTING* WASTE	FUTURE WASTE							
			N-Fuel DNW(1)	N-Fuel CRW(1)	FFTF Fuel Acid Waste(2)	FFTF Hulls Waste (2)	LLW Waste(3)	Customer Waste(3)	Shippingport Acid Waste(4)	Shippingport CRW (4)
Volume	(M^3)	5.0×10^{4}	1.2×10^{4}	5.6×10^{4}	1.5×10^{3}	6.5×10^{3}	5.8×10^{4}	2.7×10^{4}	1.5×10^{1}	1.0×10^{3}
AM-241	(Ci)	1.3×10^{4}	2.8×10^{5}	2.7×10^{5}	2.4×10^{4}	3.4×10^{1}	3.2×10^{6}	2.2×10^{2}	3.4×10^{5}	3.1×10^{3}
C-14	(Ci)	-	-	1.9×10^{3}	-	9.6×10^{1}	-	-	-	-
CM-244	(Ci)	-	-	-	8.7×10^{3}	1.2×10^{1}	-	-	3.2×10^{5}	-
CS-137	(Ci)	1.3×10^{8}	7.6×10^{7}	2.3×10^{6}	1.8×10^{6}	-	2.1×10^{7}	-	7.1×10^{5}	6.5×10^{3}
NP-237	(Ci)	4.0×10^{1}	6.2×10^{2}	6.1×10^{-1}	1.1×10^{0}	1.5×10^{-3}	-	-	8.6×10^{0}	7.9×10^{-3}
PU-238	(Ci)	5.5×10^{3}	9.9×10^{2}	9.9×10^{-1}	1.7×10^{4}	2.5×10^{1}	1.4×10^{4}	6.8×10^{3}	-	-
PU-239	(Ci)	2.5×10^{2}	6.1×10^{3}	6.1×10^{0}	8.4×10^{4}	1.2×10^{2}	4.3×10^{2}	2.0×10^{2}	2.5×10^{4}	2.3×10^{1}
PU-240	(Ci)	1.3×10^{2}	3.1×10^{3}	3.0×10^{0}	7.4×10^{4}	1.1×10^{2}	2.7×10^{2}	1.3×10^{2}	3.5×10^{4}	3.2×10^{1}
PU-241	(Ci)	1.3×10^{0}	3.0×10^{5}	2.8×10^{2}	3.2×10^{6}	4.5×10^{3}	3.2×10^{4}	1.5×10^{4}	6.9×10^{6}	6.4×10^{3}
SM-151	(Ci)	-	-	-	-	-	-	-	2.1×10^{3}	6.5×10^{1}
SR-90	(Ci)	1.9×10^{7}	6.8×10^{7}	6.7×10^{4}	6.4×10^{5}	-	2.1×10^{7}	-	5.5×10^{5}	5.1×10^{3}
TC-99	(Ci)	1.4×10^{4}	-	-	-	9.6×10^{-1}	-	-	-	-

* Jet pumping and evaporation processes complete

(1) 1995 time-integrated accumulation since 1972

(2) 1.5 year cooled waste. Hull waste in Kilograms

(3) Average concentrations applied to total volume

(4) 13 year cooled waste

DNW - Direct Neutralized Waste
CRW - Cladding Removal Waste

PRELIMINARY DATA

CONTENTS

SECTION A - SINGLE-SHELL AND DOUBLE-SHELL TANK SUMMARY
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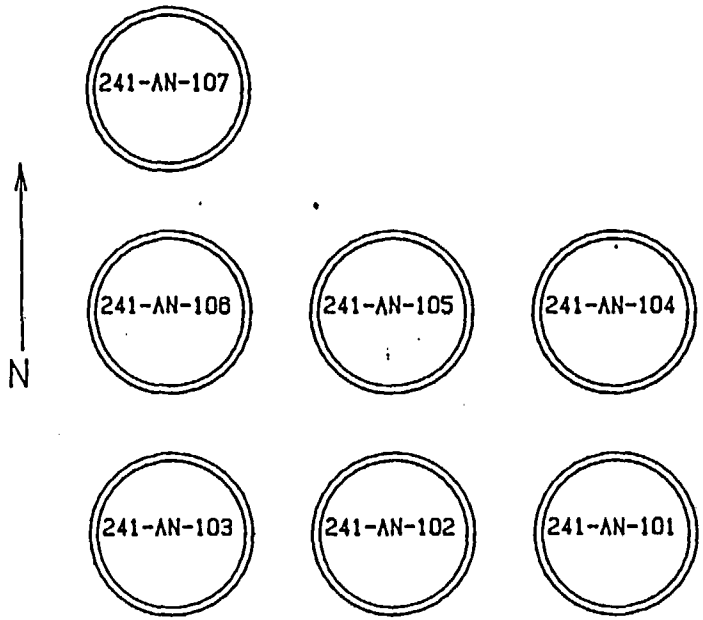
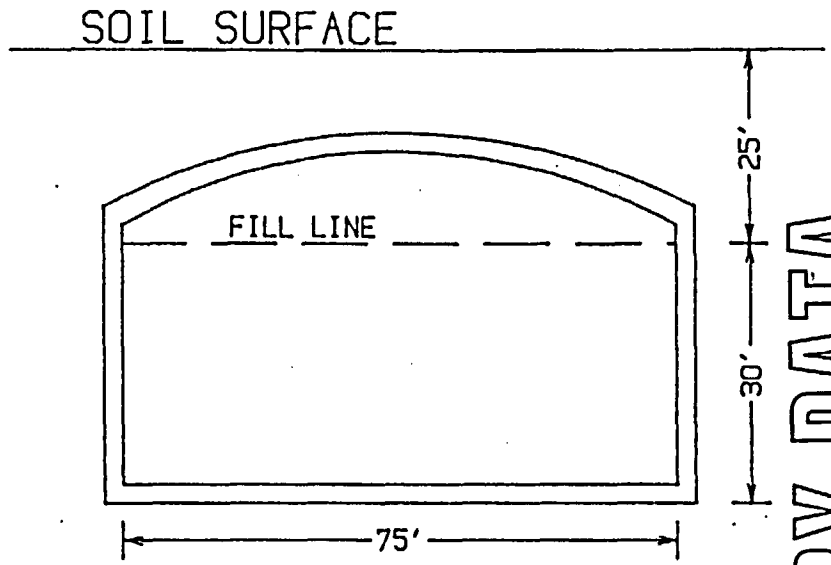
SECTION C - SINGLE-SHELL TANK SPECIFIC DATA
SECTION D - SINGLE-SHELL TANK SAMPLING PLAN
SECTION E - SINGLE-SHELL TANK LEAK DATA
SECTION F - DOUBLE-SHELL TANK SUMMARY DATA
SECTION G - DOUBLE-SHELL TANK SPECIFIC DATA
SECTION H - CAPSULE SUMMARY DATA (B PLANT)
SECTION I - TRANSURANICS (TRU) SITE SUMMARY
SECTION J - SOLID TRU WASTE SITE SPECIFIC DATA
SECTION K - LIQUID TRU WASTE SITE SPECIFIC DATA
SECTION L - LIQUID TRU WASTE SITE PLUME DATA
SECTION M - ENGINEERED BARRIER TEST

241- AN TANK FARM SUMMARY



NO SCALE



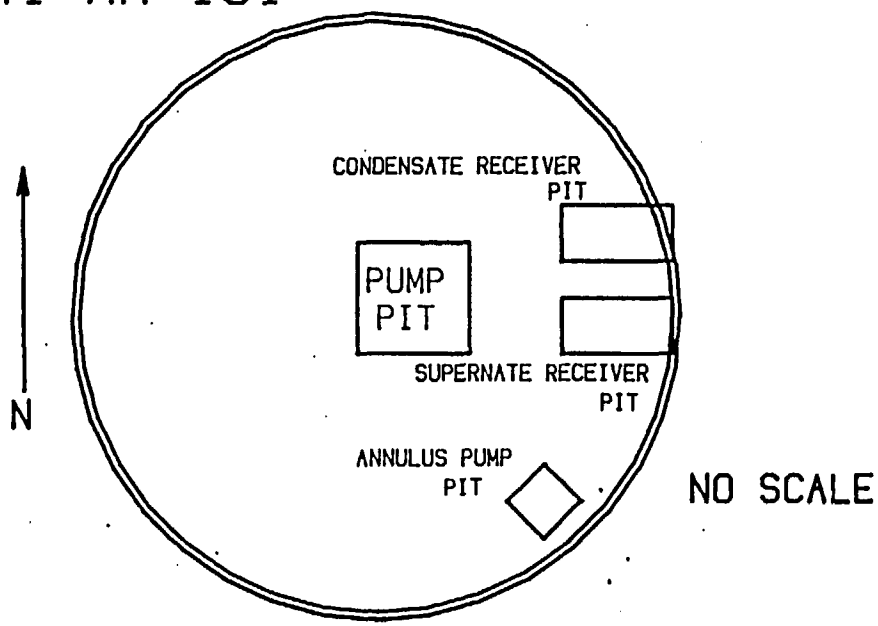
PRELIMINARY DATA

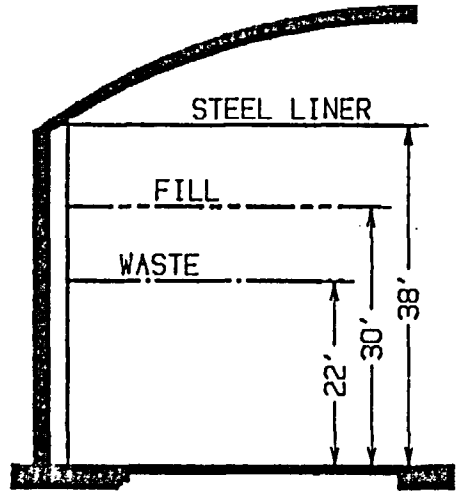
TANK NAME	FILL FRACTION	TRU Ci	SR90 Ci	COMPLEXANT MOLES
AN-101	0.62	1037	400000	760
AN-102	0.02	32	44000	23
AN-103	0.53	1338	300000	9620
AN-104	0.84	1772	600000	4800
AN-105	0.70	1480	700000	6860
AN-106	0.71	1464	820000	6850
AN-107	0.30	468	630000	344

EXISTING WASTE ONLY. MATERIALS REPRESENTED ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

AN-101 TANK DETAILED DESCRIPTION

241-AN-101





DESCRIPTION: 1144-KGAL DST WHICH, EXCLUDING FUTURE WASTE, WILL BE 62% FULL DUE TO WASTE TRANSFERS SINCE 1981 AND EVAPORATOR PROCESSING. THIS WASTE WILL BE A DOUBLE SHELL SLURRY.

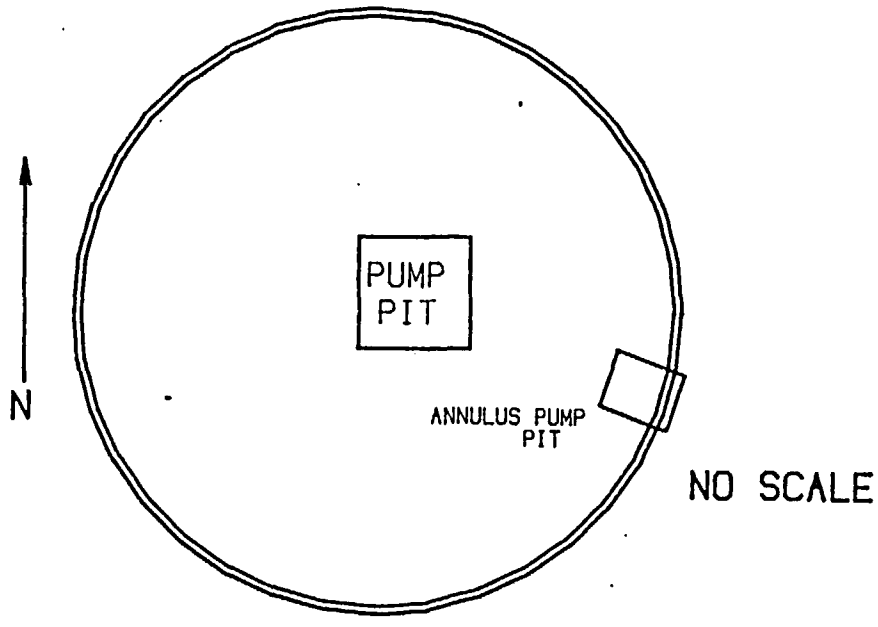
VOLUME :	710 KGALS
TRU :	1019 Ci
SR90 :	1400000 Ci
Cs137 :	1400000 Ci
Tc99 :	0 Ci
Pu241 :	2200 Ci

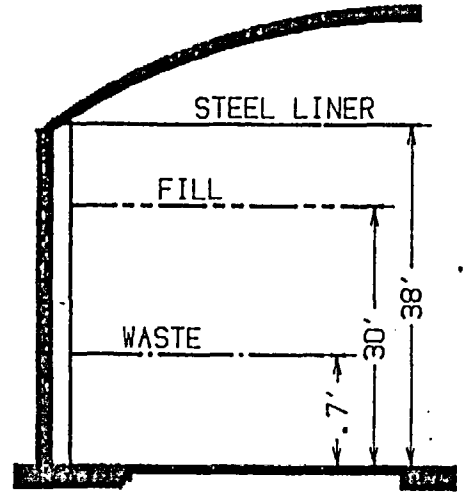
EXISTING WASTE ONLY. MATERIALS PRESENTED ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

PRELIMINARY DATA

AN-102 TANK DETAILED DESCRIPTION

241-AN-102





DESCRIPTION: 1144-KGAL DST WHICH, EXCLUDING FUTURE WASTE, WILL BE 2% FULL DUE TO WASTE TRANSFERS SINCE 1981 AND EVAPORATOR PROCESSING. THIS WASTE WILL BE A COMPLEXANT CONCENTRATE.

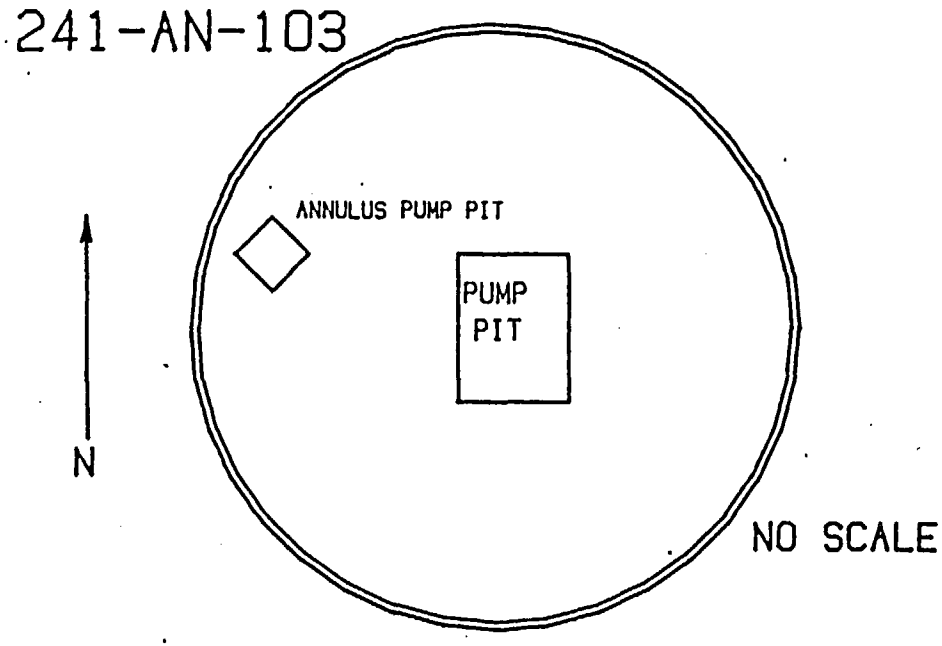
VOLUME :	22 KGALS
TRU :	31 Ci
SR90 :	44000 Ci
Cs137 :	45000 Ci
Tc99 :	0 Ci
Pu241 :	67 Ci

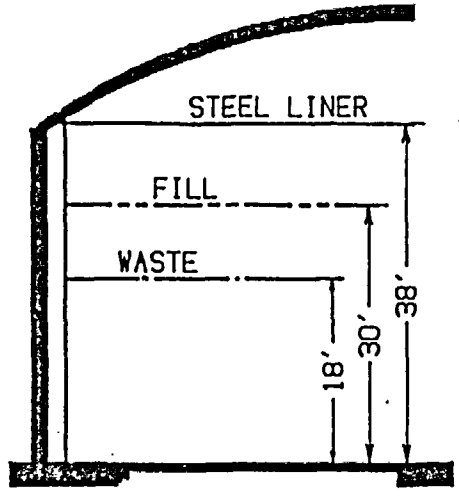
PRELIMINARY DATA

EXISTING WASTE ONLY. MATERIALS PRESENTED ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

Pg. 3

AN-103 TANK DETAILED DESCRIPTION





PRELIMINARY DATA

DESCRIPTION: 1144-KGAL DST WHICH, EXCLUDING FUTURE WASTE, WILL BE 53% FULL DUE TO WASTE TRANSFERS SINCE 1981 AND EVAPORATOR PROCESSING. THIS WASTE WILL BE A DOUBLE SHELL SLURRY.

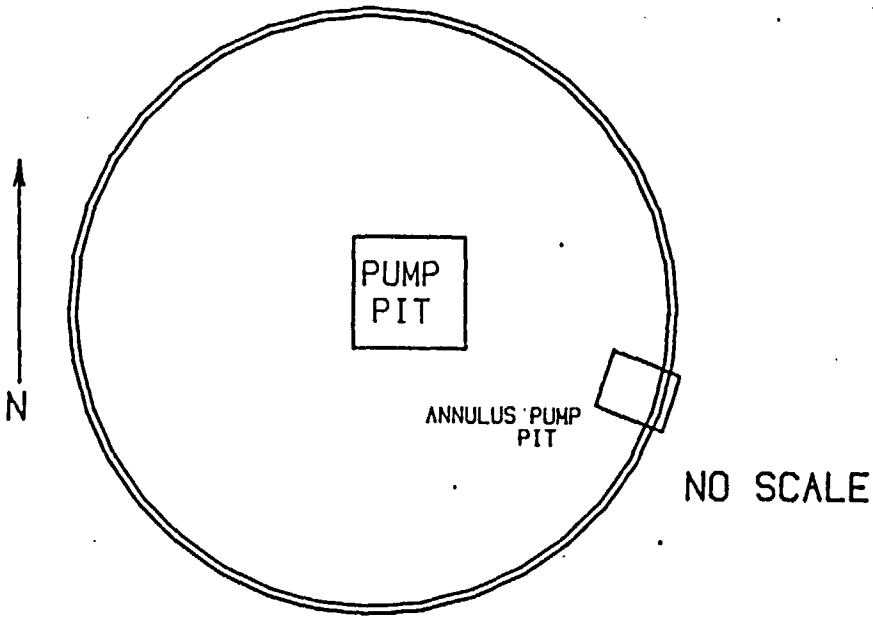
VOLUME :	608 KGALS
TRU :	1337 Ci
SR90 :	1300000 Ci
Cs137 :	15000000 Ci
Tc99 :	1700 Ci
Pu241 :	69 Ci

EXISTING WASTE ONLY. MATERIALS PRESENTED ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

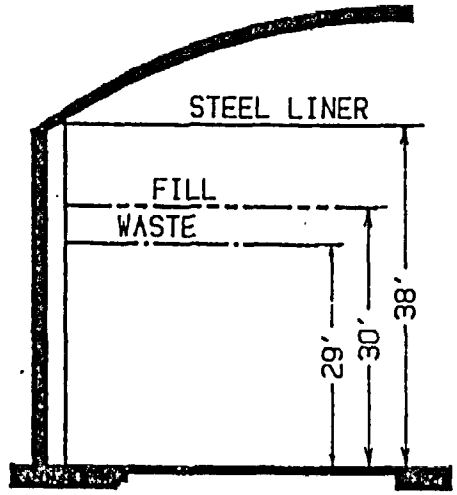
Pg. 4

AN-104 TANK DETAILED DESCRIPTION

241-AN-104



NO SCALE



DESCRIPTION: 1144-KGAL DST WHICH, EXCLUDING FUTURE WASTE, WILL BE 84% FULL DUE TO WASTE TRANSFERS SINCE 1981 AND EVAPORATOR PROCESSING. THIS WASTE WILL BE A DOUBLE SHELL SLURRY.

VOLUME :	957 KGALS
TRU :	1753 Ci
SR90 :	1600000 Ci
Cs137 :	7800000 Ci
Tc99 :	710 Ci
Pu241 :	2310 Ci

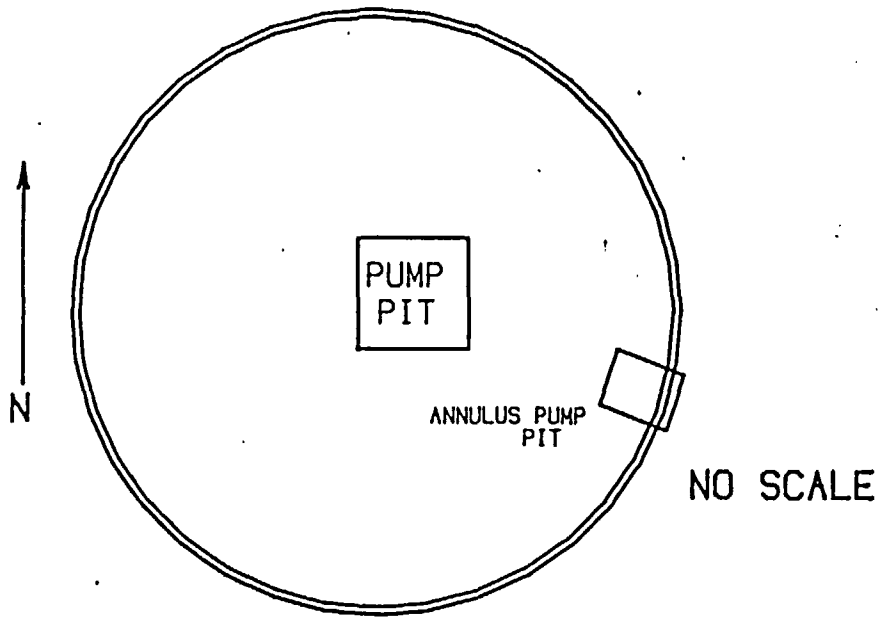
EXISTING WASTE ONLY. MATERIALS PRESENTED ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

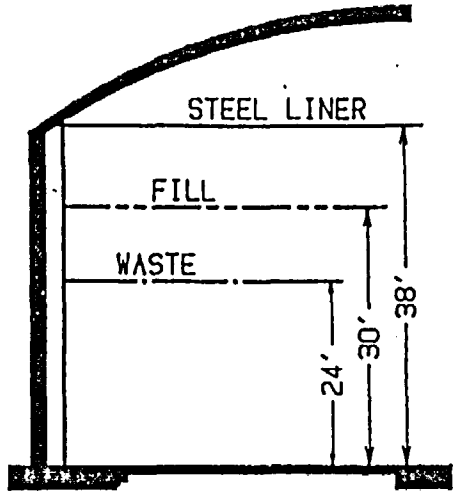
Pg. 5

PRELIMINARY DATA

AN-105 TANK DETAILED DESCRIPTION

241-AN-105





DESCRIPTION: 1144-KGAL DST WHICH, EXCLUDING FUTURE WASTE, WILL BE 70% FULL DUE TO WASTE TRANSFERS SINCE 1981 AND EVAPORATOR PROCESSING. THIS WASTE WILL BE A DOUBLE SHELL SLURRY.

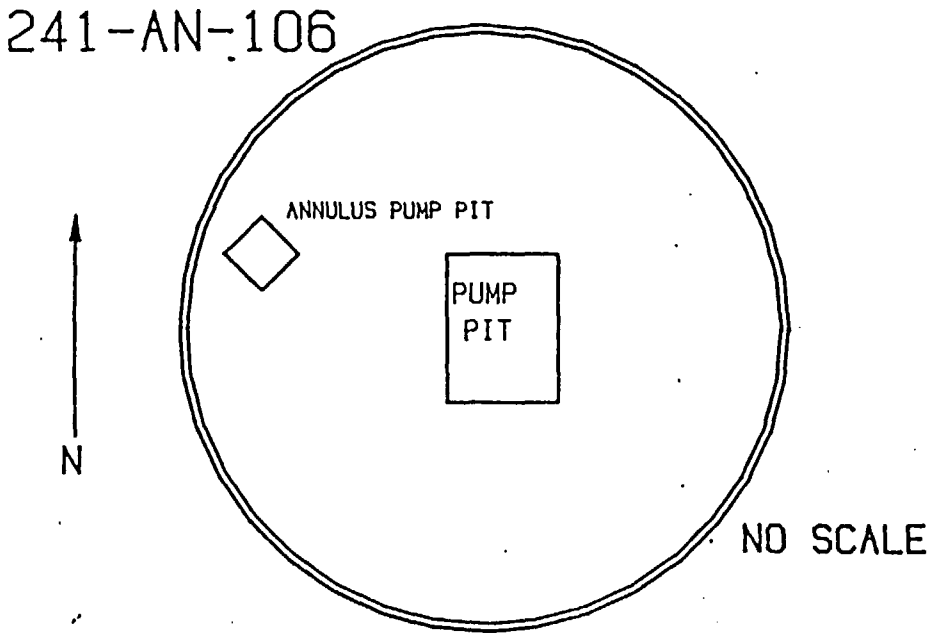
VOLUME :	802 KGALS
TRU :	1469 Ci
SR90 :	1700000 Ci
Cs137 :	10000000 Ci
Tc99 :	1100 Ci
Pu241 :	1320 Ci

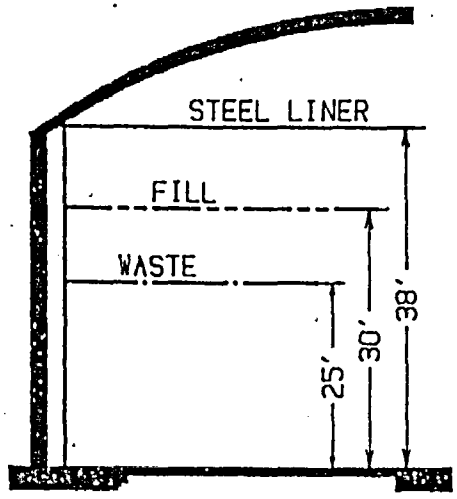
EXISTING WASTE ONLY. MATERIALS PRESENTED ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

Pg. 6

PRELIMINARY DATA

AN-106 TANK DETAILED DESCRIPTION





DESCRIPTION: 1144-KGAL DST WHICH, EXCLUDING FUTURE WASTE, WILL BE 71% FULL DUE TO WASTE TRANSFERS SINCE 1981 AND EVAPORATOR PROCESSING. THIS WASTE WILL BE A DOUBLE SHELL SLURRY.

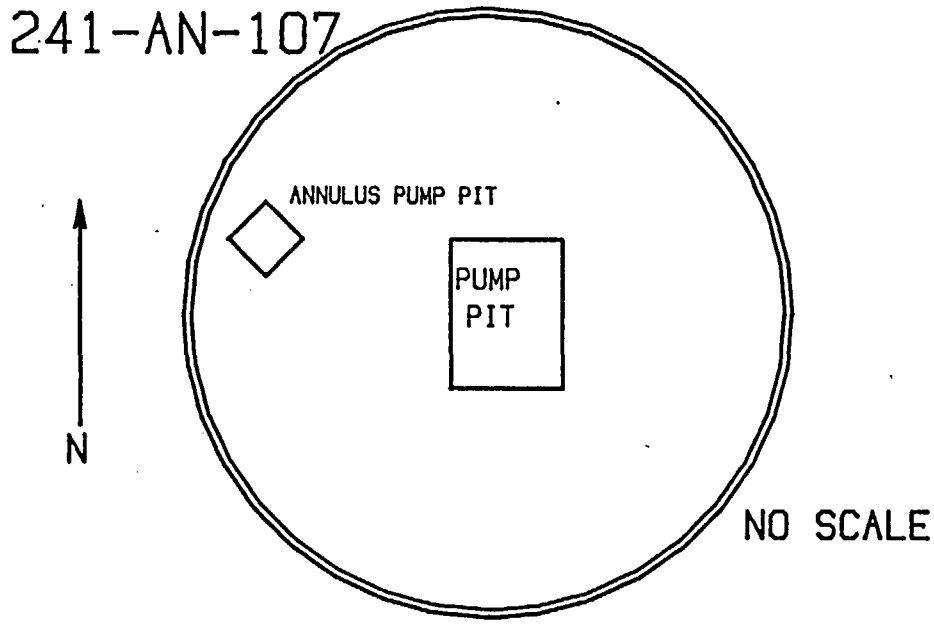
VOLUME :	808 KGALS
TRU :	1453 Ci
SR90 :	820000 Ci
Cs137 :	10000000 Ci
Tc99 :	1100 Ci
Pu241 :	1280 Ci

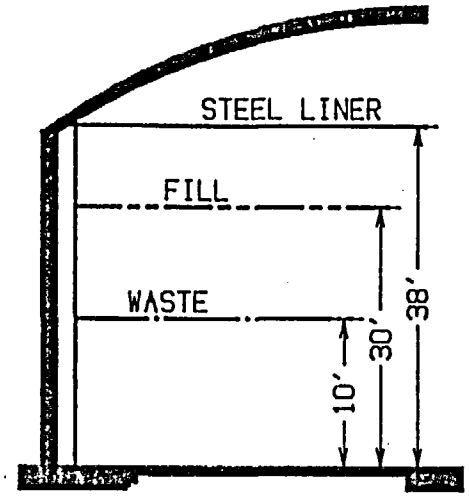
EXISTING WASTE ONLY. MATERIALS PRESENTED ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

Pg. 7

PRELIMINARY DATA

AN-107 TANK DETAILED DESCRIPTION





DESCRIPTION: 1144-KGAL DST WHICH, EXCLUDING FUTURE WASTE, WILL BE 30% FULL DUE TO WASTE TRANSFERS SINCE 1981 AND EVAPORATOR PROCESSING. THIS WASTE WILL BE A COMPLEXANT CONCENTRATE.

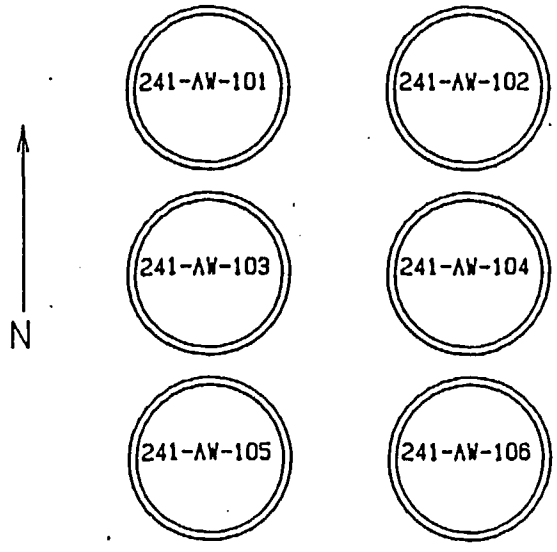
VOLUME :	320 KGALS
TRU :	460 Ci
SR90 :	630000 Ci
Cs137 :	640000 Ci
Tc99 :	0 Ci
Pu241 :	982 Ci

EXISTING WASTE ONLY. MATERIALS PRESENTED ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

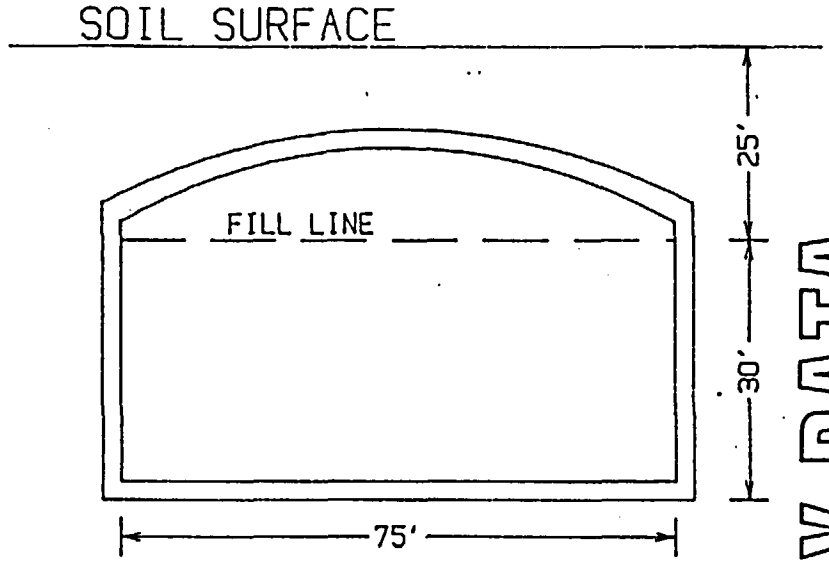
Pg. 8

PRELIMINARY DATA

241- AW TANK FARM SUMMARY



NO SCALE



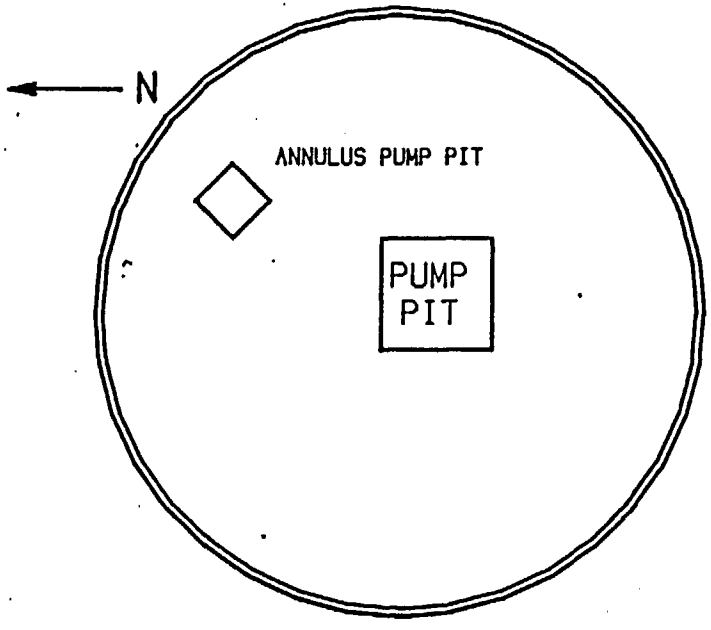
PRELIMINARY DATA

TANK NAME	FILL FRACTION	TRU Ci	SR90 Ci	COMPLEXANT MOLES
AW-101	0.62	1033	400000	759
AW-102	0.62	1441	500000	8250
AW-103	0.59	1204	100000	8800
AW-104	0.56	1330	200000	8900
AW-105	0.62	1439	400000	8250
AW-106	0.79	789	930000	6000

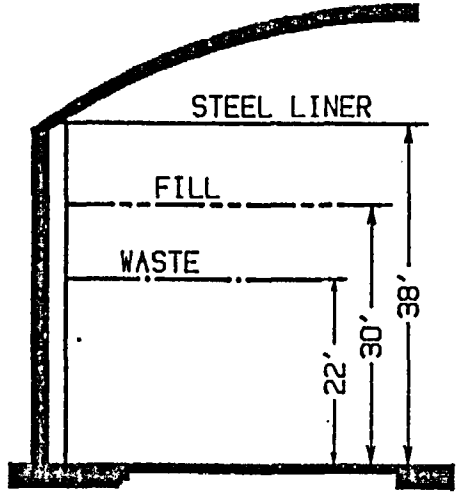
EXISTING WASTE ONLY. MATERIALS REPRESENTED ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

AW-101 TANK DETAILED DESCRIPTION

241-AW-101



NO SCALE



DESCRIPTION: 1144-KGAL DST WHICH, EXCLUDING FUTURE WASTE, WILL BE 62% FULL DUE TO WASTE TRANSFERS SINCE 1980 AND EVAPORATOR PROCESSING. THIS WASTE WILL BE A DOUBLE SHELL SLURRY.

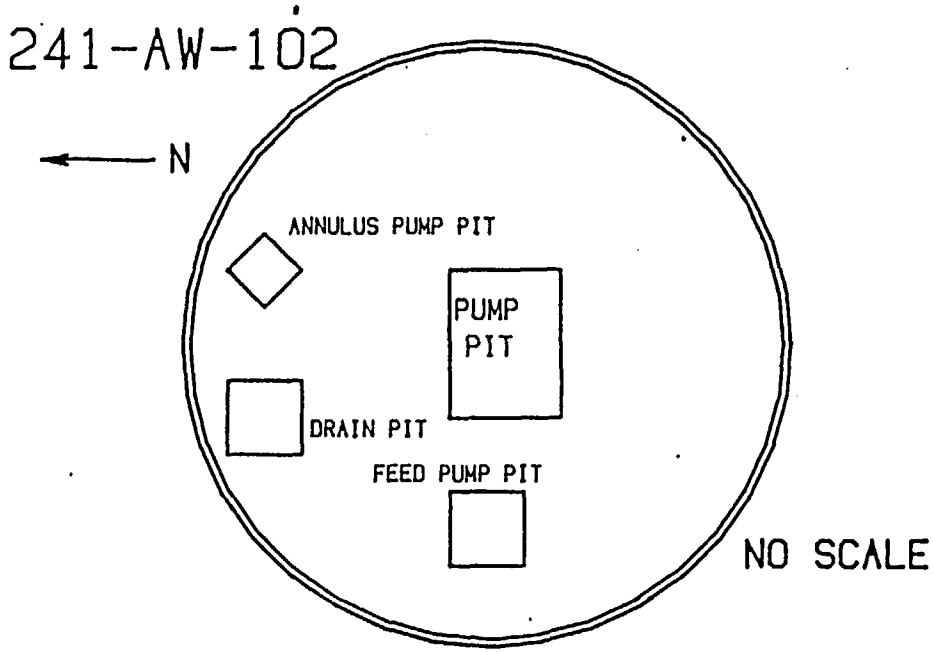
VOLUME :	707 KGALS
TRU :	1015 Ci
SR90 :	1400000 Ci
Cs137 :	1400000 Ci
Tc99 :	0 Ci
Pu241 :	2200 Ci

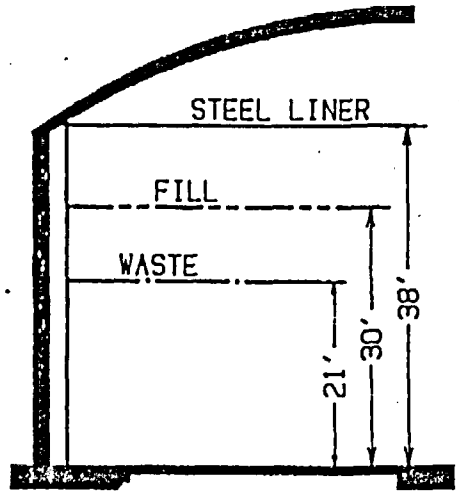
PRELIMINARY DATA

EXISTING WASTE ONLY. MATERIALS PRESENTED ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

Pg. 10

AW-102 TANK DETAILED DESCRIPTION





DESCRIPTION: 1144-KGAL DST WHICH, EXCLUDING FUTURE WASTE, WILL BE 62% FULL DUE TO WASTE TRANSFERS SINCE 1980 AND EVAPORATOR PROCESSING. THIS WASTE WILL BE A DOUBLE SHELL SLURRY.

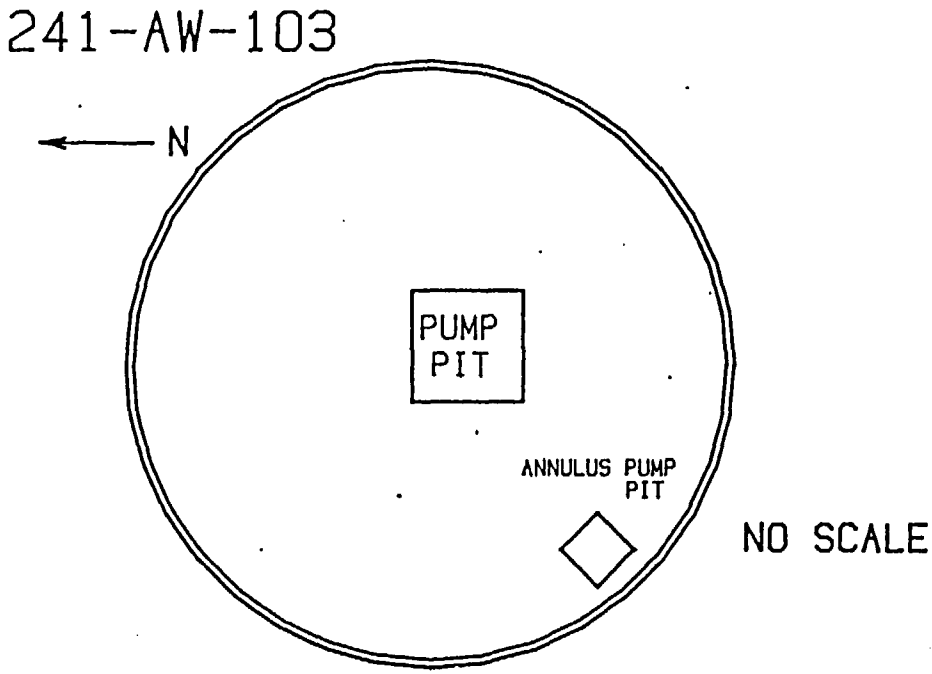
VOLUME :	707 KGALS
TRU :	1435 Ci
SR90 :	1500000 Ci
Cs137 :	14000000 Ci
Tc99 :	1400 Ci
Pu241 :	709 Ci

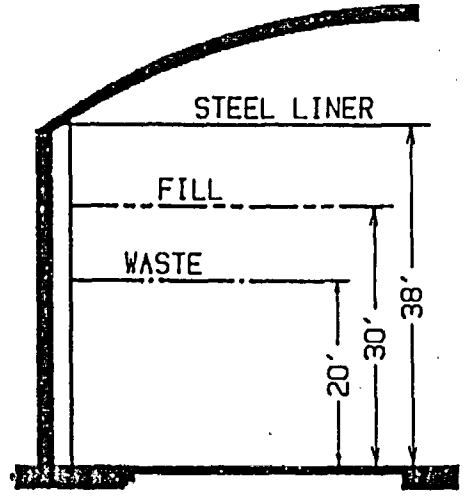
EXISTING WASTE ONLY. MATERIALS PRESENTED ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

Pg. 11

PRELIMINARY DATA

AW-103 TANK DETAILED DESCRIPTION





DESCRIPTION: 1144-KGAL DST WHICH, EXCLUDING FUTURE WASTE, WILL BE 59% FULL DUE TO WASTE TRANSFERS SINCE 1980 AND EVAPORATOR PROCESSING. THIS WASTE WILL BE A DOUBLE SHELL SLURRY.

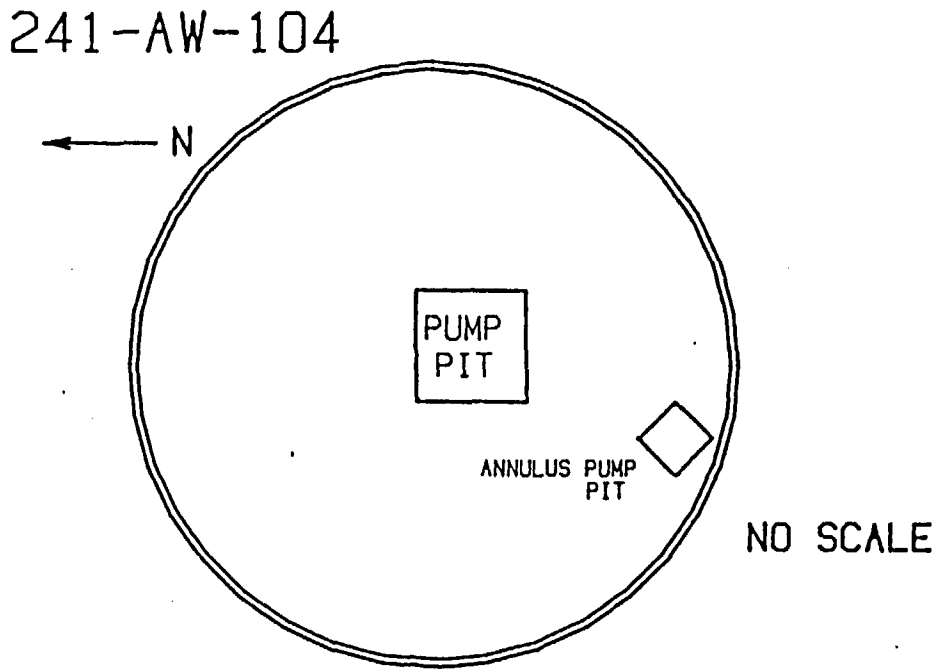
VOLUME :	677 KGALS
TRU :	1204 Ci
SR90 :	1100000 Ci
Cs137 :	14000000 Ci
Tc99 :	1600 Ci
Pu241 :	0 Ci

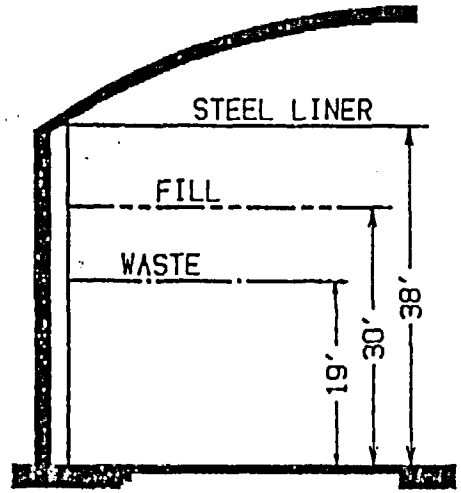
EXISTING WASTE ONLY. MATERIALS PRESENTED ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

Pg. 12

PRELIMINARY DATA

AW-104 TANK DETAILED DESCRIPTION





DESCRIPTION: 1144-KGAL DST WHICH, EXCLUDING FUTURE WASTE, WILL BE 56% FULL DUE TO WASTE TRANSFERS SINCE 1980 AND EVAPORATOR PROCESSING. THIS WASTE WILL BE A DOUBLE SHELL SLURRY.

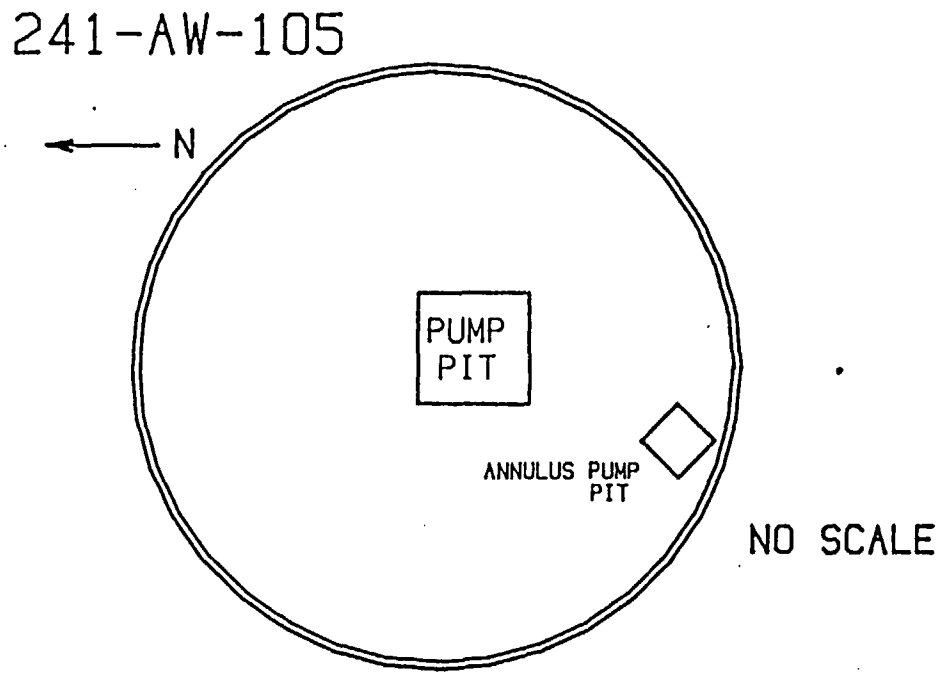
VOLUME :	637 KGALS
TRU :	1328 Ci
SR90 :	1200000 Ci
Cs137 :	14000000 Ci
Tc99 :	1600 Ci
Pu241 :	273 Ci

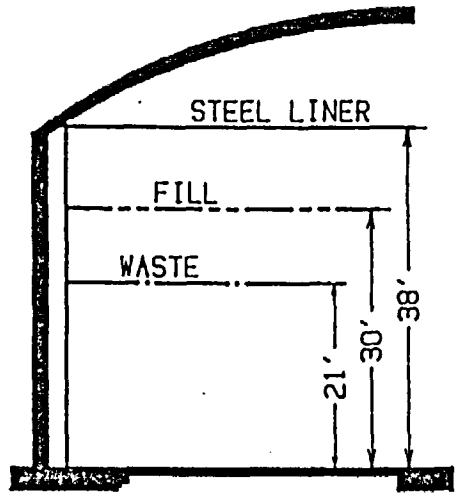
EXISTING WASTE ONLY. MATERIALS PRESENTED ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

Pg. 13

PRELIMINARY DATA

AW-105 TANK DETAILED DESCRIPTION





DESCRIPTION: 1144-KGAL DST WHICH, EXCLUDING FUTURE WASTE, WILL BE 62% FULL DUE TO WASTE TRANSFERS SINCE 1980 AND EVAPORATOR PROCESSING. THIS WASTE WILL BE A DOUBLE SHELL SLURRY.

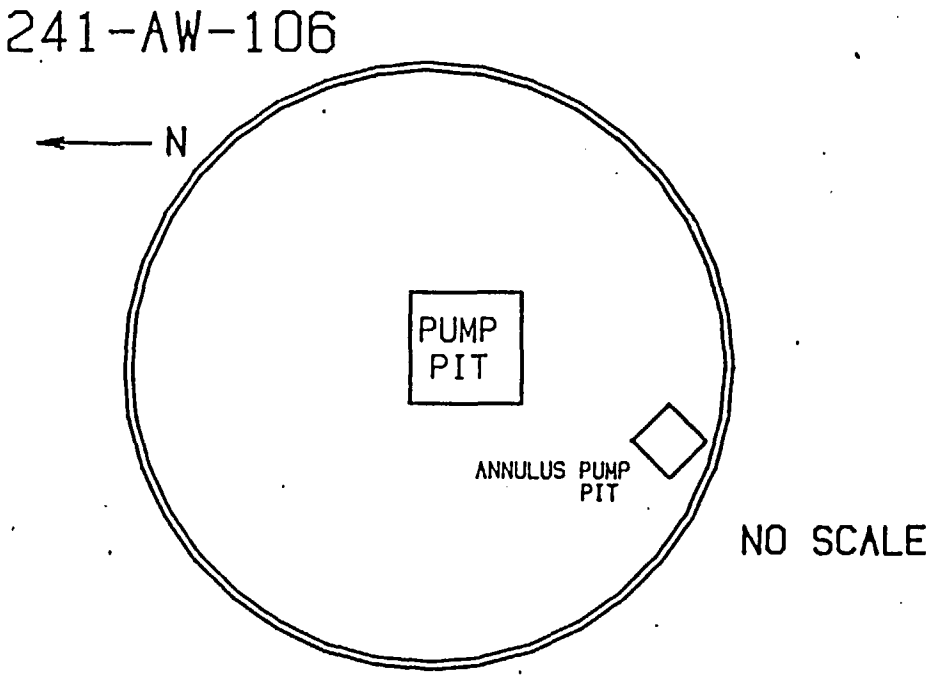
VOLUME :	706 KGALS
TRU :	1433 Ci
SR90 :	1400000 Ci
Cs137 :	13000000 Ci
Tc99 :	1400 Ci
Pu241 :	703 Ci

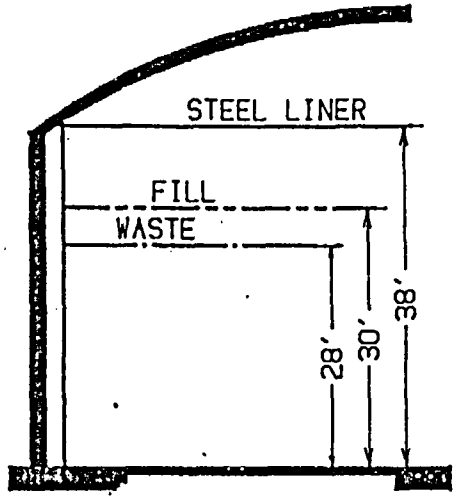
EXISTING WASTE ONLY. MATERIALS PRESENTED ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

Pg. 14

PRELIMINARY DATA

AW-106 TANK DETAILED DESCRIPTION





DESCRIPTION: 1144-KGAL DST WHICH, EXCLUDING FUTURE WASTE, WILL BE 79% FULL DUE TO WASTE TRANSFERS SINCE 1980 AND EVAPORATOR PROCESSING. THIS WASTE WILL BE A DOUBLE SHELL SLURRY.

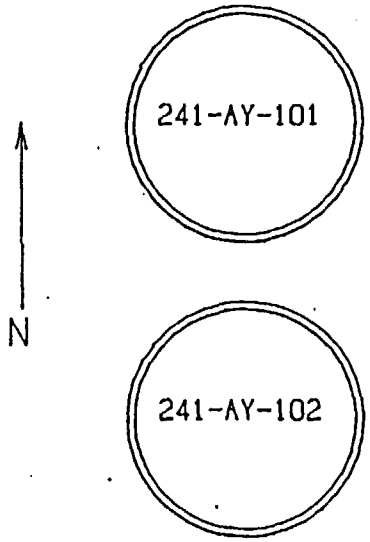
VOLUME :	907 KGALS
TRU :	789 Ci
SR90 :	930000 Ci
Cs137 :	7600000 Ci
Tc99 :	900 Ci
Pu241 :	0 Ci

EXISTING WASTE ONLY. MATERIALS PRESENTED ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

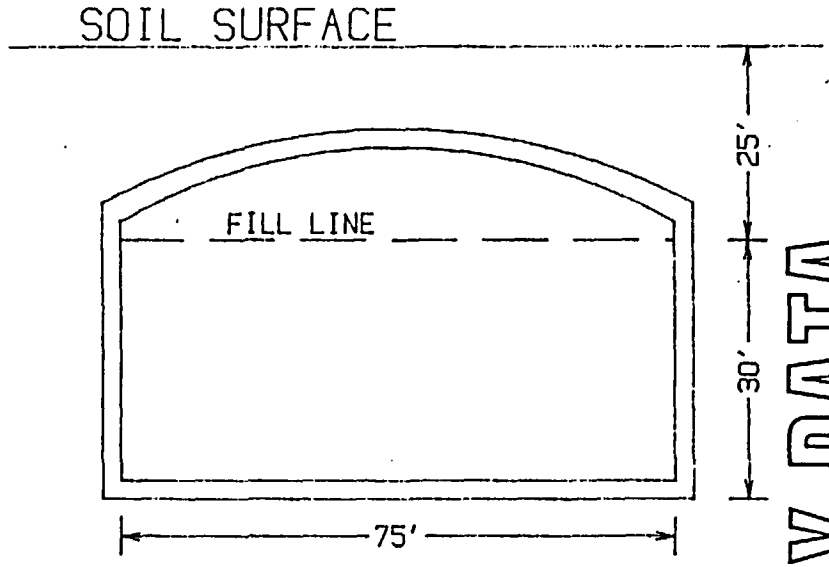
Pg. 15

PRELIMINARY DATA

241- AY TANK FARM SUMMARY



NO SCALE



PRELIMINARY DATA

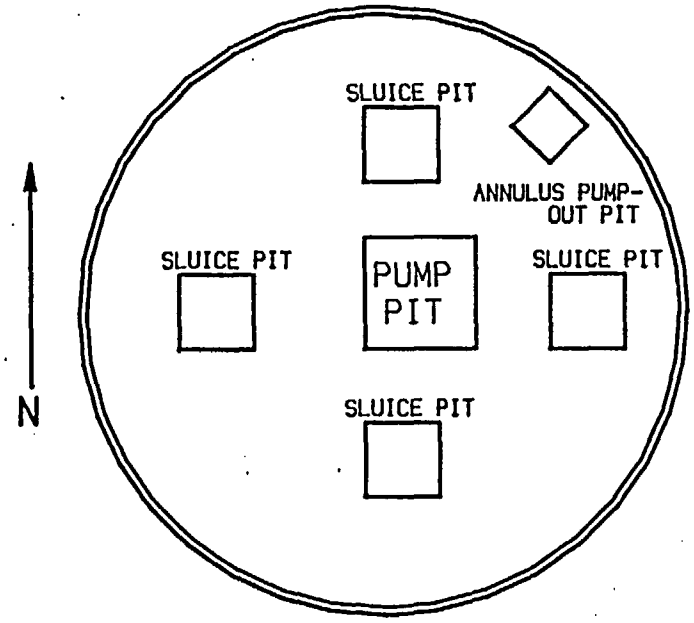
TANK NAME	FILL FRACTION	TRU Ci	SR90 Ci	COMPLEXANT MOLES
AY-101	0.29	789	340000	3000
AY-102	0.24	95	53000	500

EXISTING WASTE ONLY. MATERIALS REPRESENTED ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

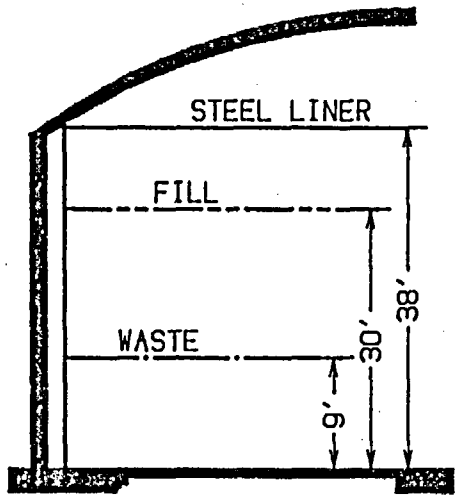
Pg. 16

AY-101 TANK DETAILED DESCRIPTION

241-AY-101



NO SCALE



DESCRIPTION: 1000-KGAL DST WHICH, EXCLUDING FUTURE WASTE, WILL BE 29% FULL DUE TO WASTE TRANSFERS SINCE 1971 AND EVAPORATOR PROCESSING. THIS WASTE WILL BE A DOUBLE SHELL SLURRY.

VOLUME :	290 KGALS
TRU :	765 Ci
SR90 :	340000 Ci
Cs137 :	240000 Ci
Tc99 :	180 Ci
Pu241 :	760 Ci

PRELIMINARY DATA

EXISTING WASTE ONLY. MATERIALS PRESENTED ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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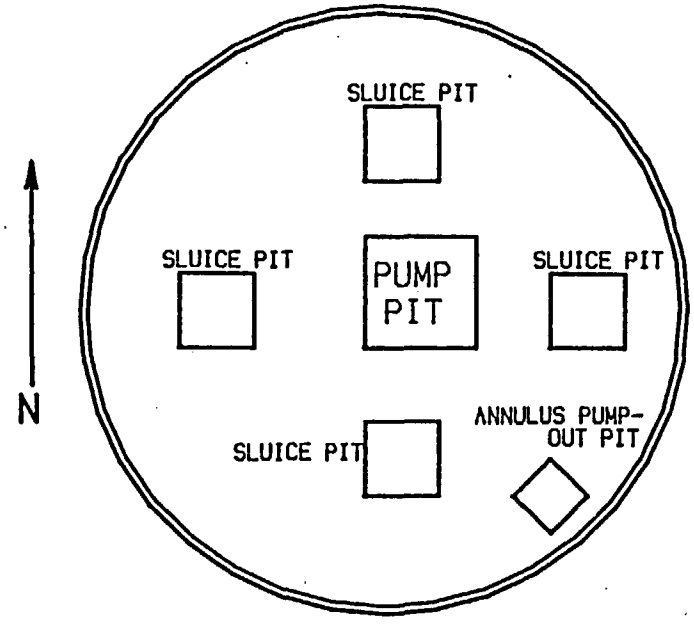
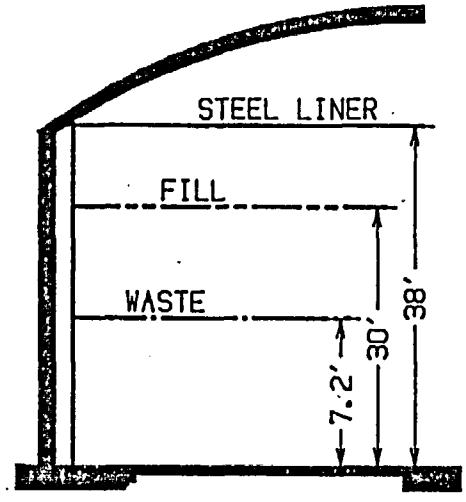
AY-102 TANK DETAILED DESCRIPTION

241-AY-102



NO SCALE



DESCRIPTION: 1000-KGAL DST WHICH, EXCLUDING FUTURE WASTE, WILL BE 24% FULL DUE TO WASTE TRANSFERS SINCE 1972 AND EVAPORATOR PROCESSING. THIS WASTE WILL BE A DOUBLE SHELL SLURRY.

VOLUME :	237 KGALS
TRU :	95 Ci
SR90 :	53000 Ci
Cs137 :	58000 Ci
Tc99 :	46 Ci
Pu241 :	0 Ci

EXISTING WASTE ONLY. MATERIALS PRESENTED ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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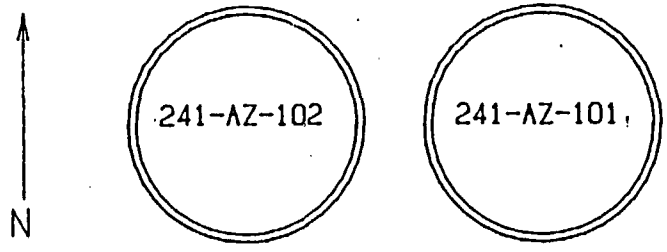
PRELIMINARY DATA

241— AZ TANK FARM SUMMARY



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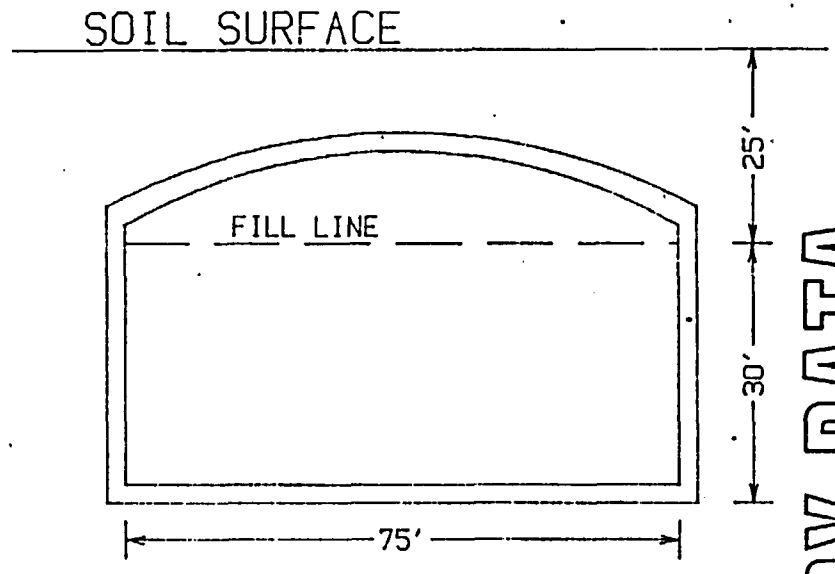


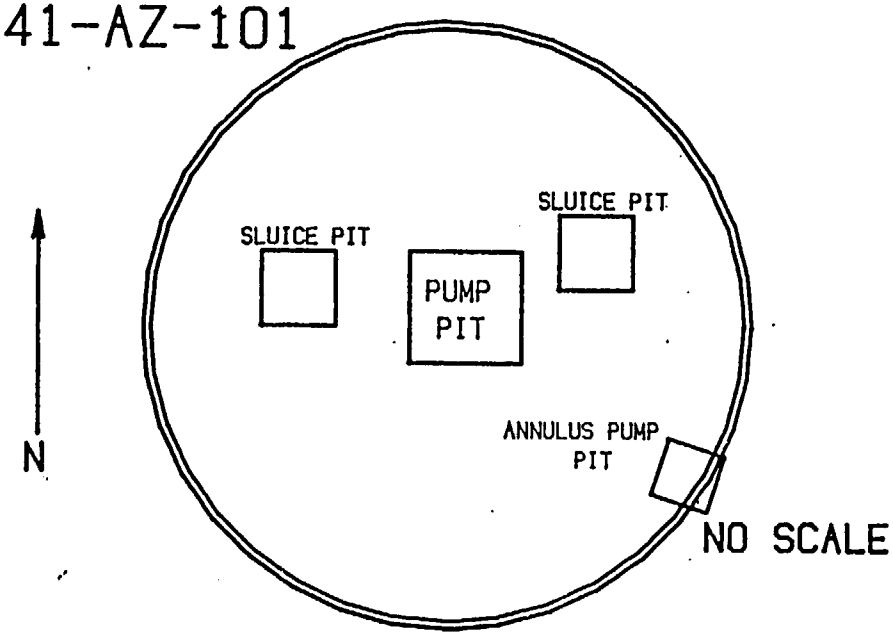
PRELIMINARY DATA

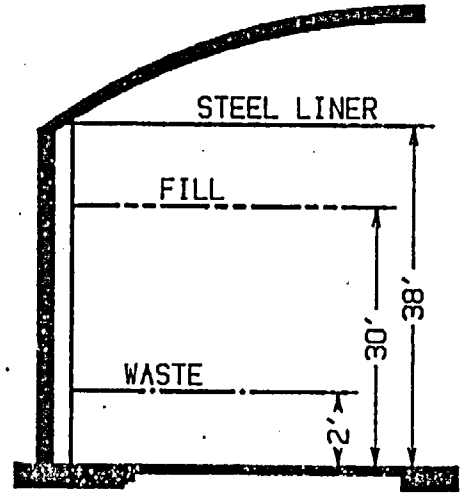
TANK NAME	FILL FRACTION	TRU Ci	SR90 Ci	COMPLEXANT MOLES
AZ-101	0.65	260	240000	9900
AZ-102	0.64	90	7200	7000

EXISTING WASTE ONLY. MATERIALS REPRESENTED ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

AZ-101 TANK DETAILED DESCRIPTION

241-AZ-101





PRELIMINARY DATA

DESCRIPTION: 1000-KGAL DST WHICH, EXCLUDING FUTURE WASTE, WILL BE 65% FULL DUE TO WASTE TRANSFERS SINCE 1977 AND EVAPORATOR PROCESSING. THIS WASTE WILL BE A DOUBLE SHELL SLURRY.

VOLUME :	649 KGALS
TRU :	260 Ci
SR90 :	240000 Ci
Cs137 :	160000 Ci
Tc99 :	120 Ci
Pu241 :	0 Ci

EXISTING WASTE ONLY. MATERIALS PRESENTED ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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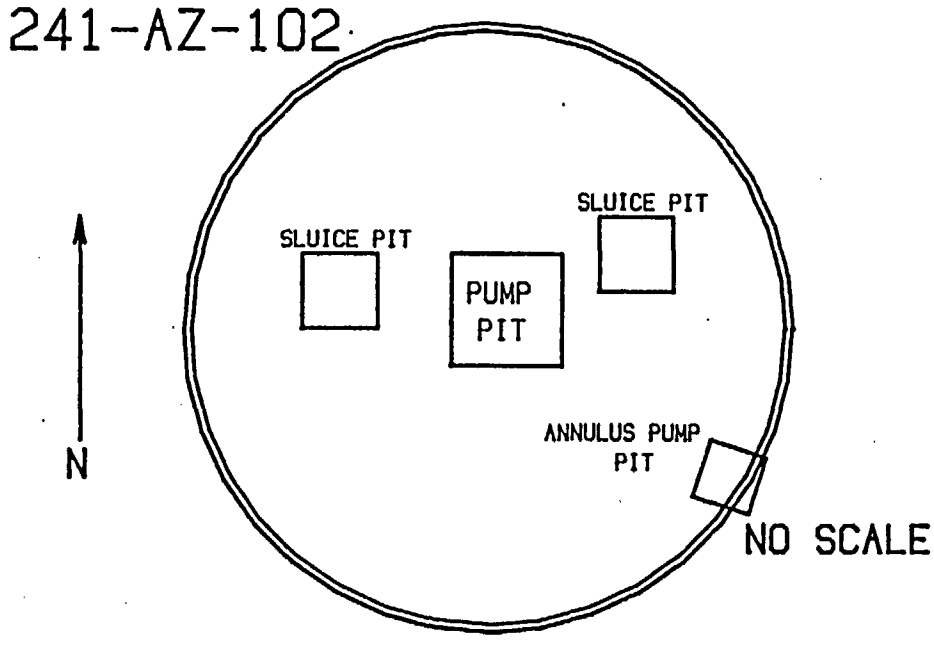
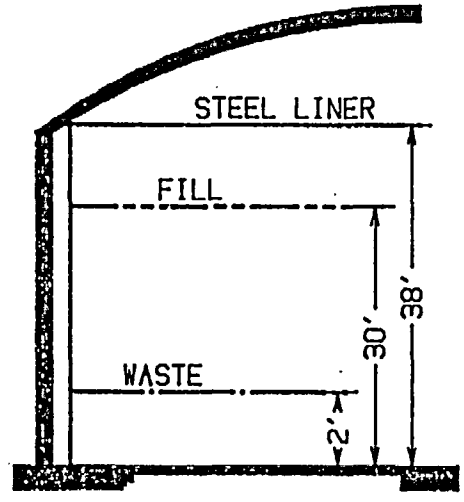
AZ-102 TANK DETAILED DESCRIPTION





PRELIMINARY DATA

DESCRIPTION: 1000-KGAL DST WHICH, EXCLUDING FUTURE WASTE, WILL BE 64% FULL DUE TO WASTE TRANSFERS SINCE 1978 AND EVAPORATOR PROCESSING. THIS WASTE WILL BE A DOUBLE SHELL SLURRY.

VOLUME :	638 KGALS
TRU :	90 Ci
SR90 :	7200 Ci
Cs137 :	10000 Ci
Tc99 :	29 Ci
Pu241 :	0 Ci

EXISTING WASTE ONLY. MATERIALS PRESENTED ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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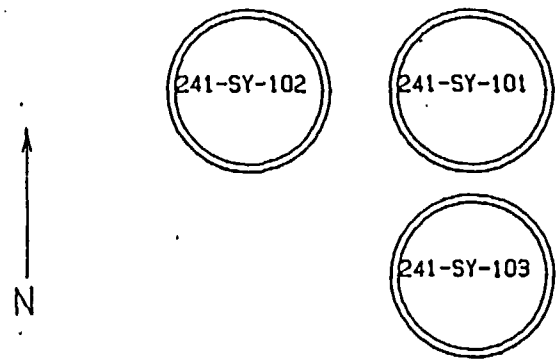
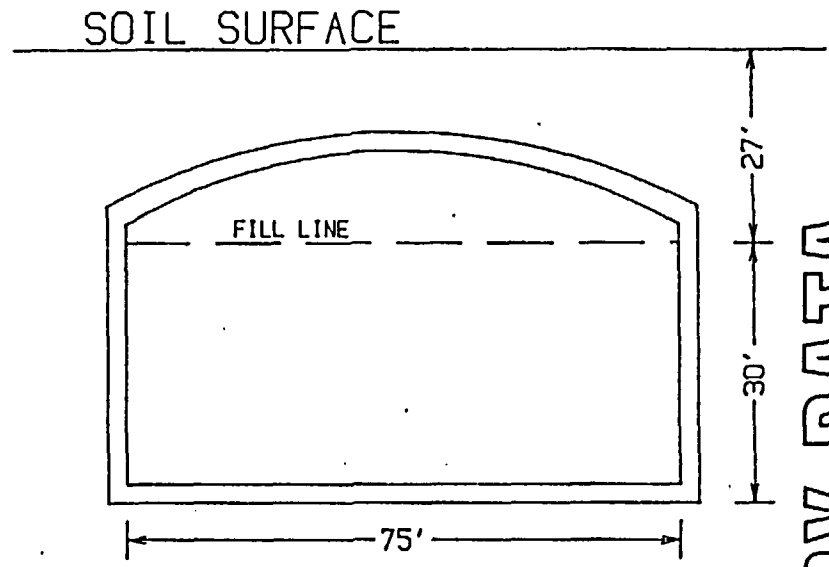
241- SY TANK FARM SUMMARY



NO SCALE

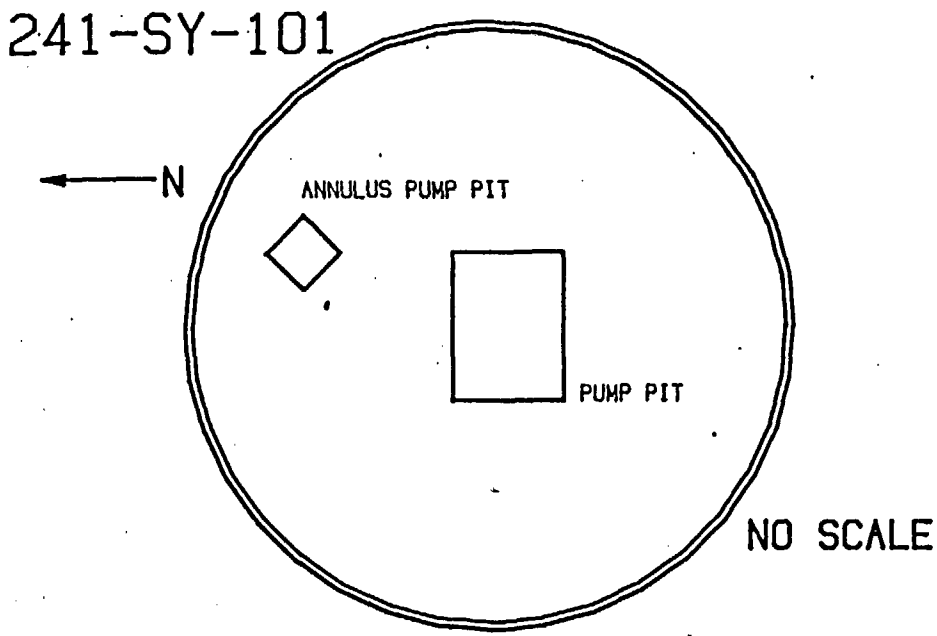


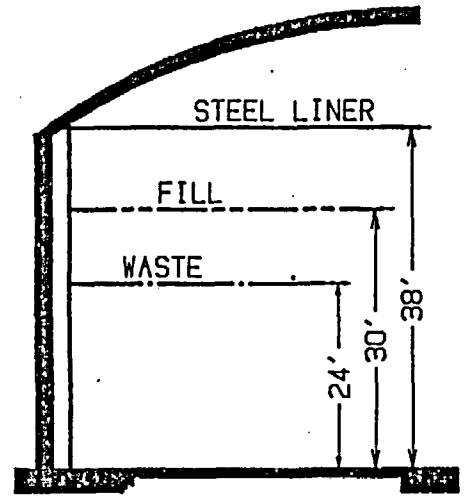
TANK NAME	FILL FRACTION	TRU Ci	SR90 Ci	COMPLEXANT MOLES
SY-101	0.84	370	340000	4000
SY-102	0.78	1233	200000	9800
SY-103	0.74	1273	300000	10600

PRELIMINARY DATA

EXISTING WASTE ONLY. MATERIALS REPRESENTED ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

SY-101 TANK DETAILED DESCRIPTION





DESCRIPTION: 1144-KGAL DST WHICH, EXCLUDING FUTURE WASTE, WILL BE 84% FULL DUE TO WASTE TRANSFERS SINCE 1978 AND EVAPORATOR PROCESSING. THIS WASTE WILL BE A COMPLEXANT CONCENTRATE, SALTCAKE AND DOUBLE SHELL SLURRY MIXTURE.

VOLUME :	964 KGALS
TRU :	370 Ci
SR90 :	340000 Ci
Cs137 :	160000 Ci
Tc99 :	200 Ci
Pu241 :	0 Ci

PRELIMINARY DATA

EXISTING WASTE ONLY. MATERIALS PRESENTED ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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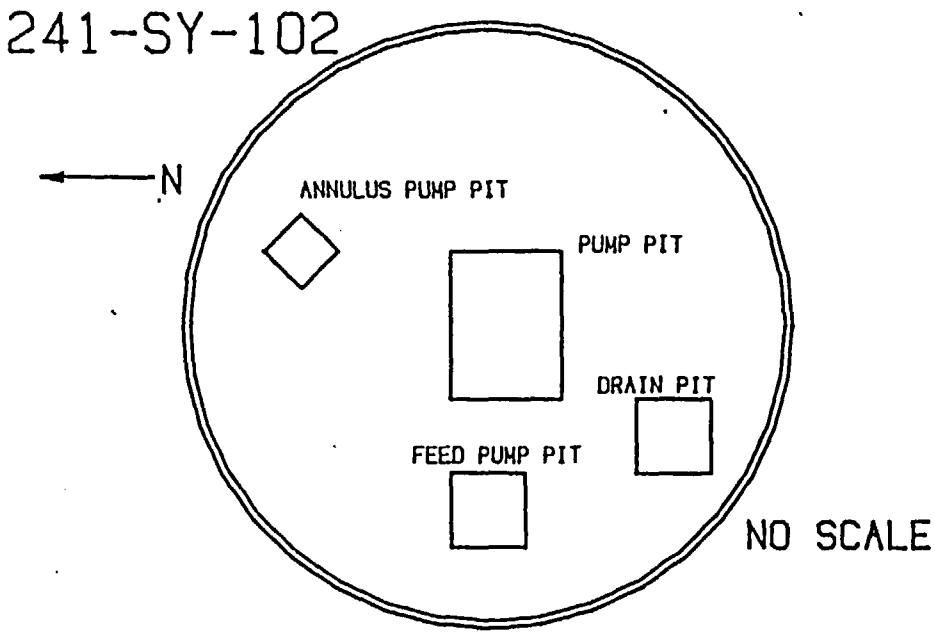
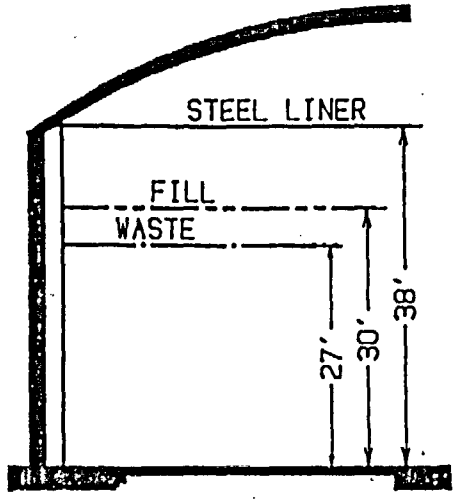
SY-102 TANK DETAILED DESCRIPTION





DESCRIPTION: 1144-KGAL DST WHICH, EXCLUDING FUTURE WASTE, WILL BE 78% FULL DUE TO WASTE TRANSFERS SINCE 1979 AND EVAPORATOR PROCESSING. THIS WASTE WILL BE A SALTCAKE AND DOUBLE SHELL SLURRY MIXTURE.

VOLUME :	888 KGALS
TRU :	1233 Ci
SR90 :	1200000 Ci
Cs137 :	7800000 Ci
Tc99 :	976 Ci
Pu241 :	0 Ci

EXISTING WASTE ONLY. MATERIALS PRESENTED ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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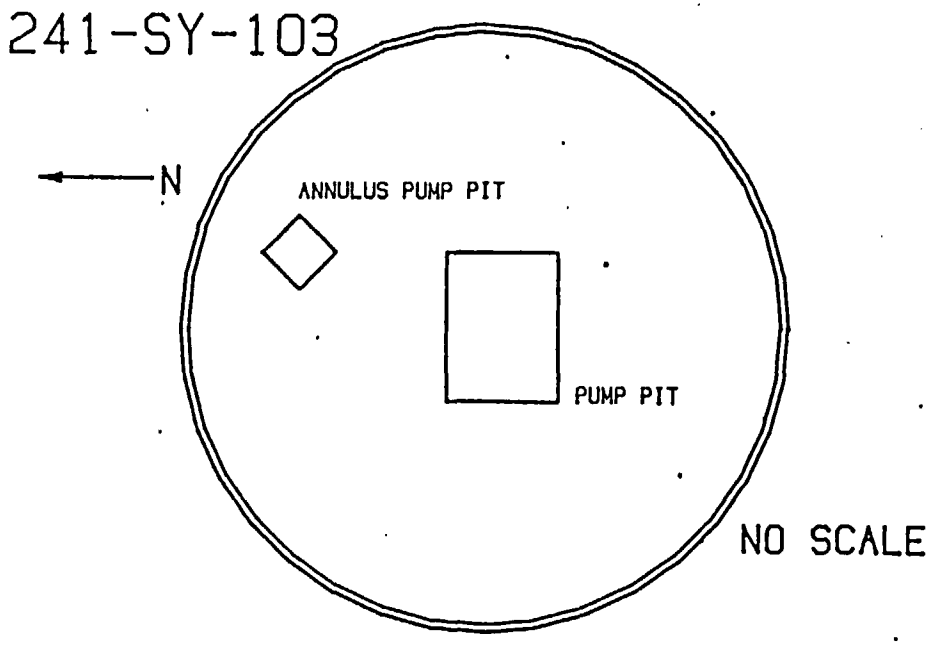
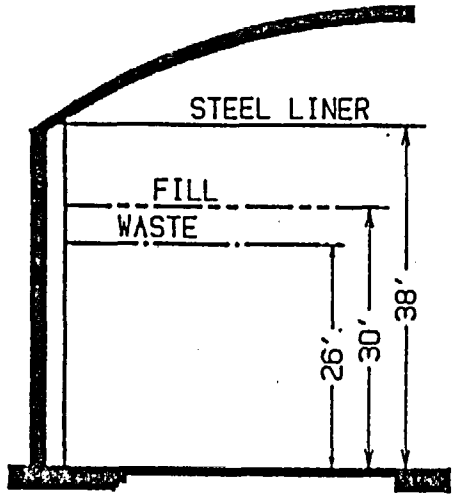
PRELIMINARY DATA

SY-103 TANK DETAILED DESCRIPTION





DESCRIPTION: 1144-KGAL DST WHICH, EXCLUDING FUTURE WASTE, WILL BE 74% FULL DUE TO WASTE TRANSFERS SINCE 1980 AND EVAPORATOR PROCESSING. THIS WASTE WILL BE A DOUBLE SHELL SLURRY.

VOLUME :	847 KGALS
TRU :	1273 Ci
SR90 :	1300000 Ci
Cs137 :	9100000 Ci
Tc99 :	1020 Ci
Pu241 :	0 Ci

EXISTING WASTE ONLY. MATERIALS PRESENTED ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION.

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PRELIMINARY DATA

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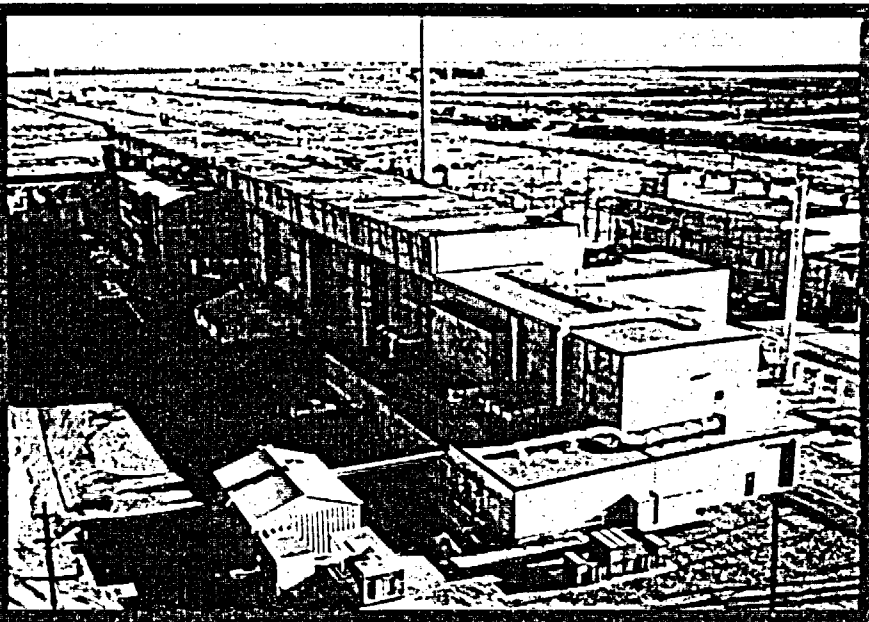
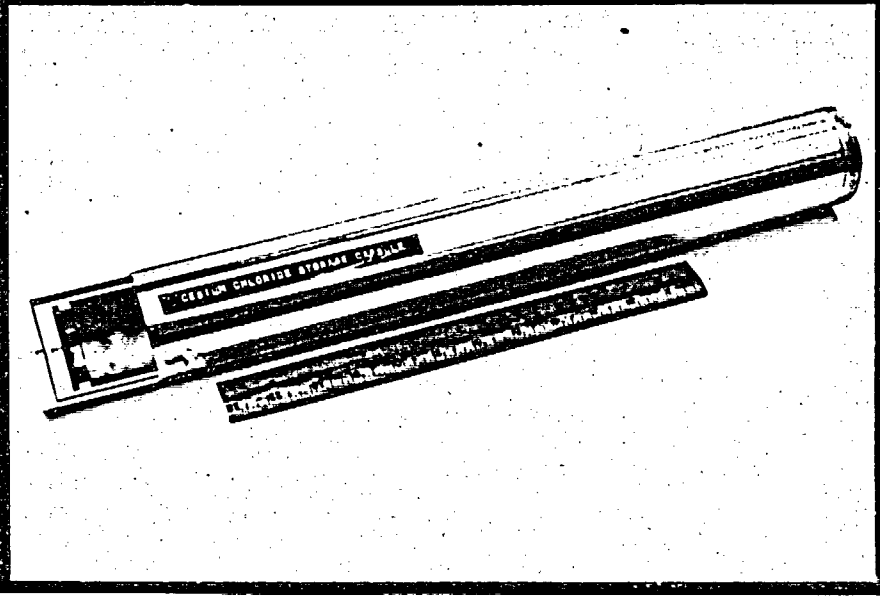
SECTION J - SOLID TRU WASTE SITE SPECIFIC DATA
SECTION K - LIQUID TRU WASTE SITE SPECIFIC DATA
SECTION L - LIQUID TRU WASTE SITE PLUME DATA
SECTION M - ENGINEERED BARRIER TEST

DOE-RL
HANFORD DEFENSE WASTE DISPOSAL PROGRAM

EPA STAFF SITE VISIT





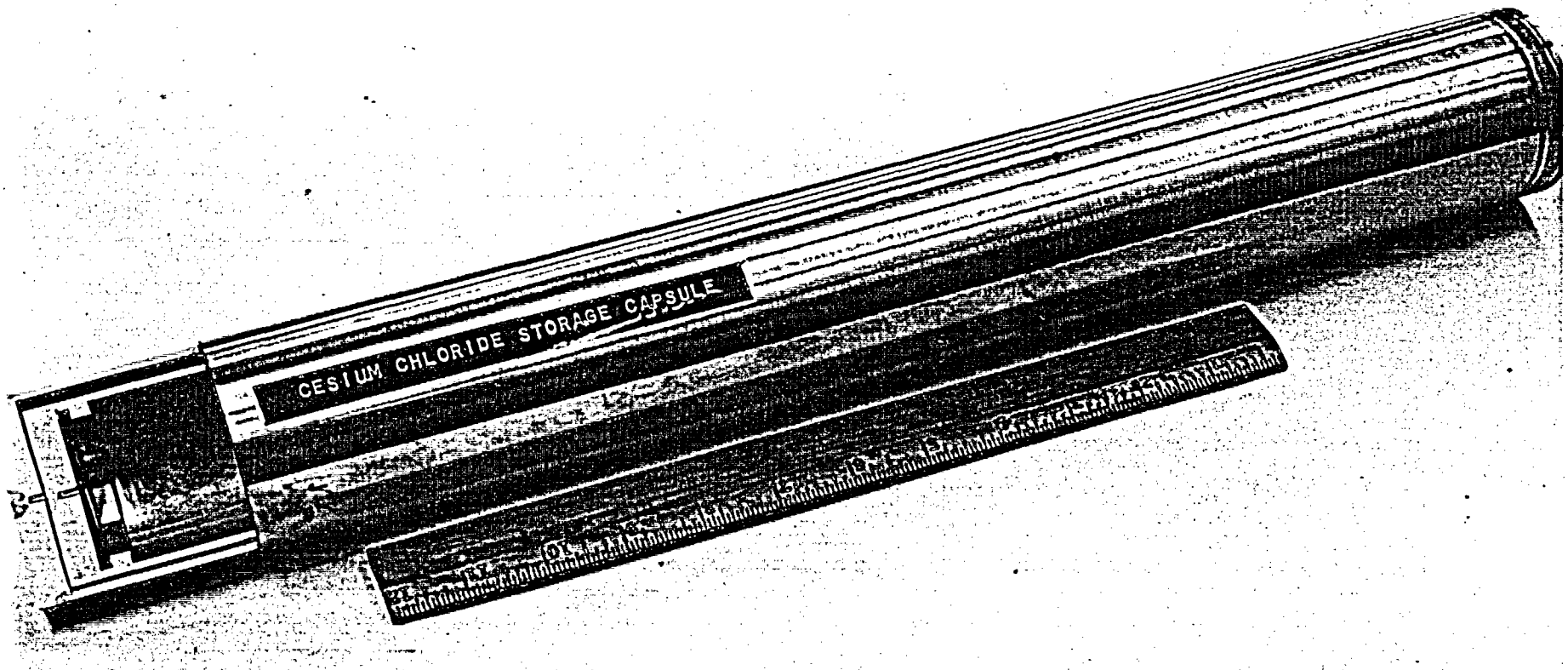
B-PLANT

DOE-RL

HANFORD DEFENSE WASTE DISPOSAL PROGRAM

EPA STAFF SITE VISIT

CESIUM CHLORIDE STORAGE CAPSULE



CESIUM AND STRONTIUM CAPSULES

CAPSULES	NUMBER*	KILOWATTS	MILLIONS OF CURIES
CESIUM	1734	314	176
STRONTIUM	691	227	98

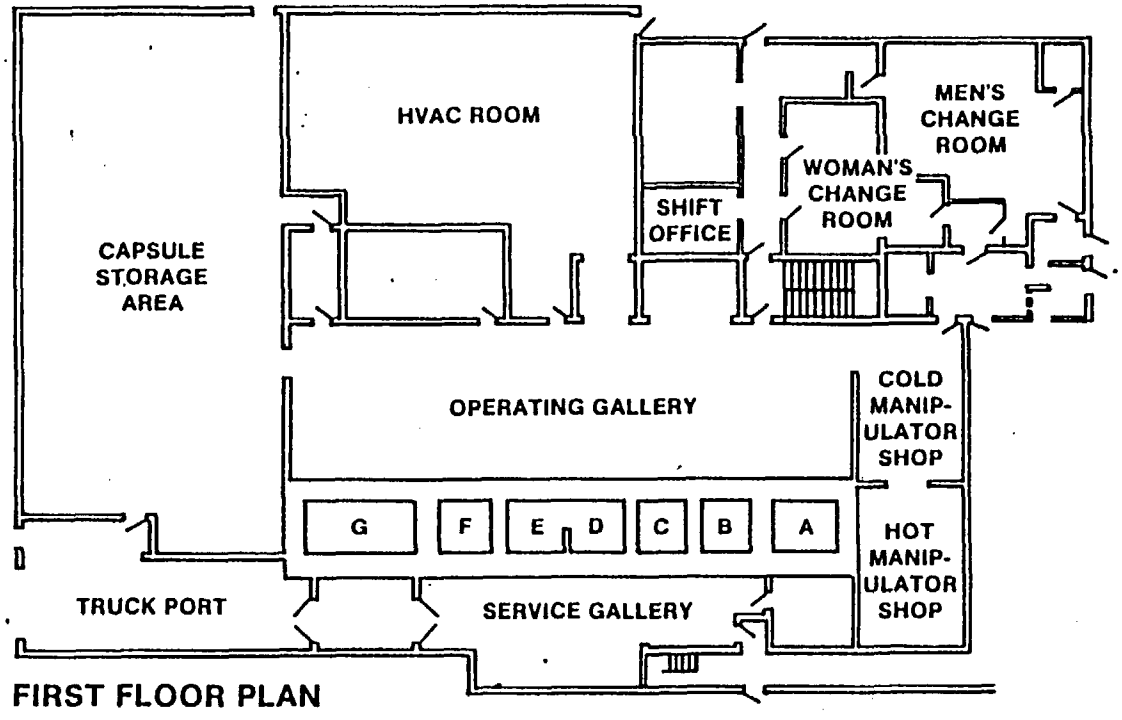
*NUMBER OF CAPSULES IN 1996 INCLUDING PROJECTED NUMBER OF CAPSULES TO BE PRODUCED FROM EXISTING B-PLANT SOLUTIONS. DOES NOT INCLUDE FUTURE PUREX OPERATIONS.

DOE-RL

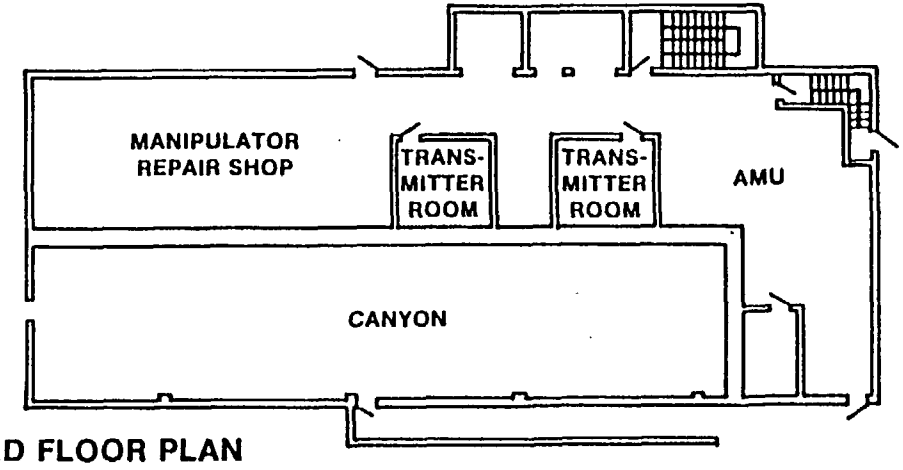
HANFORD DEFENSE WASTE DISPOSAL PROGRAM

EPA STAFF SITE VISIT

ENCAPSULATION BUILDING 225-B FLOOR PLAN



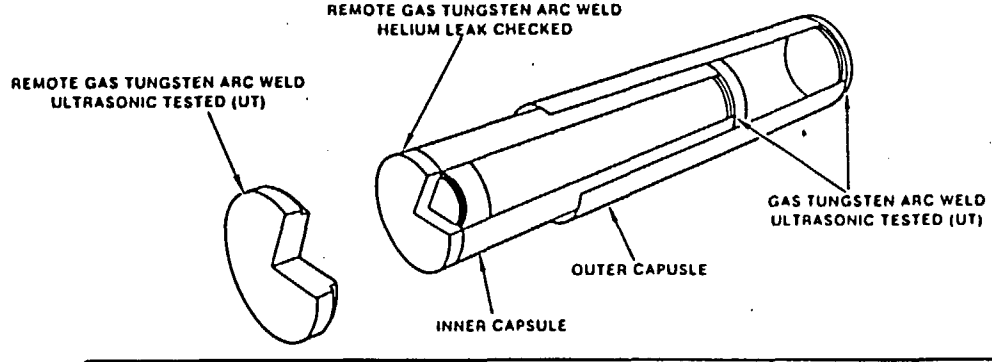
FIRST FLOOR PLAN



SECOND FLOOR PLAN

EPA STAFF SITE VISIT

	FORM	LOADING	PER CENT OF THEORETICAL DENSITY BASED ON TOTAL VOID SPACE OF CAPSULE	TEMPERATURE			
				AIR		WATER	
				CENTER LINE	SURFACE	CENTER LINE	SURFACE
STRONTIUM FLUORIDE	COMPACTED POWDER	150 KCI (MAX)	66	960 C	430 C	640 C	71 C
CESIUM CHLORIDE	MELT-CAST	70 KCI	65	450 C	200 C	327 C	58 C



	CAPSULE									
	INNER					OUTER				
	MATERIAL	WALL THICKNESS	OUTSIDE DIAMETER	TOTAL LENGTH	TOTAL CAP THICKNESS	MATERIAL	WALL THICKNESS	OUTSIDE DIAMETER	TOTAL LENGTH	TOTAL CAP THICKNESS
STRONTIUM FLUORIDE	HASTELLOY C-276 (UT)	0.305 (UT)	5.72	48.39	1.02	STAINLESS STEEL 316-L (UT)	0.277 (UT)	6.67	51.05	1.02
CESIUM CHLORIDE	STAINLESS STEEL 316-L (UT)	0.241 (UT)	5.72	50.10	1.02	STAINLESS STEEL 316-L (UT)	0.277 (UT)	6.67	52.77	1.02

NOTE: ALL DIMENSIONS ARE IN CM

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SECTION L - LIQUID TRU WASTE SITE PLUME DATA
SECTION M - ENGINEERED BARRIER TEST

PRELIMINARY DATA

Transuranic (TRU) Site Summary

Transuranic (TRU) waste is contained in 4 solid waste TRU-stored retrievable (Post-CY1970) sites, 7 solid waste TRU non-retrievable sites and 22 liquid TRU waste sites. Two of the four TRU-stored retrievable sites also contain TRU non-retrievable waste. The sites cover 27.9 acres of the Hanford Site. The volume of contaminated soil is estimated to be 1.3×10^5 cubic meters. The volume of overburden is estimated to be 3.7×10^5 cubic meters. The waste inventory through CY1982 is shown below.

INVENTORY

C-14	2.09E+03 Ci	CS-137	7.10E+04 Ci
CO-60	7.38E+05 Ci	Uranium	1.70E+09 g
SR-90	7.10E+04 Ci	Plutonium	8.40E+05 g
RU-106	1.40E+04 Ci		

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SECTION L - LIQUID TRU WASTE SITE PLUME DATA
SECTION M - ENGINEERED BARRIER TEST

TRU SOLID WASTE SITE SUMMARY SHEET

SITE NAME	TYPE	TRU CONCENTRATION NCI/G*	TRU MASS KG	MFP (SR90 + CS137) CURIES
218-W-4C	STORED(1)	2300.00	250.00	38000.00
218-W-4B	STORED(2)	640.00	59.00	6000.00
218-W-3A	STORED(3)	190.00	18.00	40000.00
218-E-12B	STORED(4)	10.00	1.30	51000.00
218-W-2	MIXED	250.00	130.00	10.00
218-W-1	MIXED	560.00	94.00	3.70
218-W-3	MIXED	110.00	68.00	21.00
218-W-4A	MIXED	49.00	35.00	82.00
618-11	MIXED(5)	17.00	9.90	0.00
218-E-5A	MIXED	10.00	1.40	380.00
618-1	MIXED	74.00	1.00	0.00
618-2	MIXED	56.00	1.00	0.00
218-E-1	MIXED	18.00	1.00	1.80

(1) SEGRGATED-LLW CONTAINS HALF OF REPORTED TRU
(2) MIXED CONTAINS APPROXIMATELY 10 KG OF REPORTED TRU
(3) SEGREGATED-LLW CONTAINS MOST OF REPORTED MFP
(4) SEGREGATED-LLW CONTAINS MOST OF REPORTED MFP; MIXED CONTAINS APPROXIMATELY 1.2 KG OF REPORTED TRU
(5) VARIOUS SOURCES REPORT .1, 5 AND 10 KG OF TRU
*APPLIES TO "TYPE" IDENTIFIED IN COLUMN 2

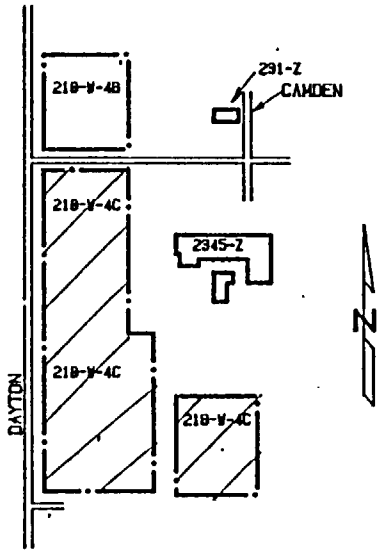
MATERIALS PRESENTED ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION

PAGE 1

PRELIMINARY DATA

218-W-4C TRENCH

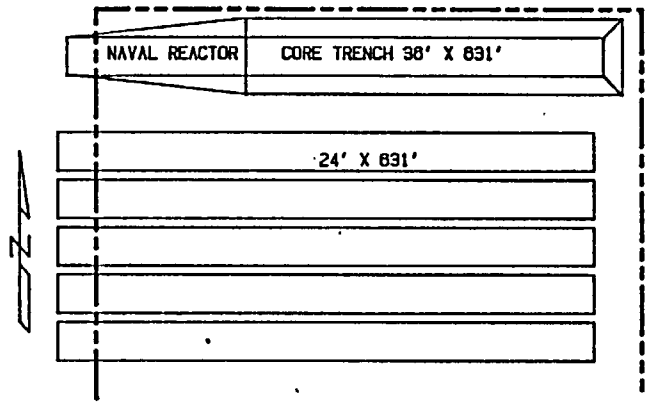
SITE DETAILED DESCRIPTION



NO SCALE

218-W-4C

PLAN



PRELIMINARY DATA

DESCRIPTION: 77 TRENCHES, CURRENTLY ACTIVE , IN SERVICE FROM 1978 TO PRES. THE WASTE CONSISTS OF NON-TRU NAVY REACTOR CORE BARRELS AND STORED DRUMS OF TRU WASTE. TRENCHES ARE 129 M LONG. 19 KCI OF REPORTED MFP ARE IN SEGREGATED-LOW LEVEL WASTE.

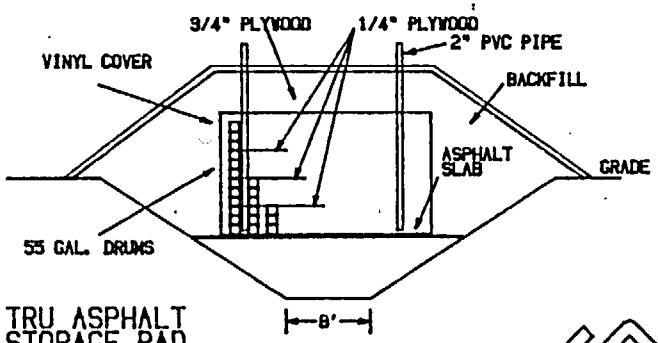
CONT. SOIL VOL.:	4400.00 M3
C14:	.63 CI
CO60:	629000.00 CI
SR90:	18700.00 CI
RU106:	14000.00 CI
CS137:	18800.00 CI
U:	2220000.00 G
PU:	247000.00 G

MATERIALS PRESENTED ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION

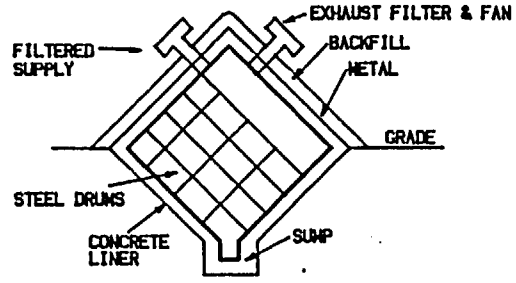
EPA TOUR BOOK
SEC.K, PG. 2

218-W-4B TRENCH

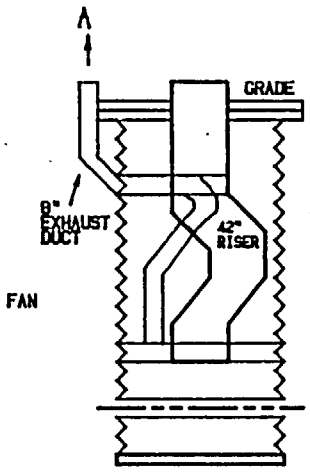
SITE DETAILED DESCRIPTION



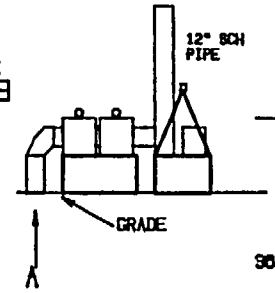
TRU ASPHALT STORAGE PAD

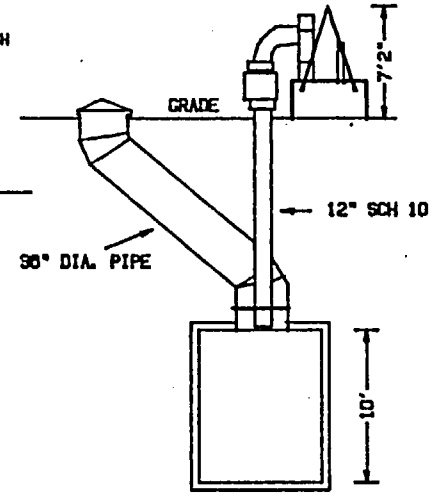


TRU VEE STORAGE TRENCH



UNI DRY WASTE CAISSON





ALPHA DRY WASTE CAISSON

DESCRIPTION: 13 TRENCHES AND 5 ALPHA (TRU), 1 UNI (N-REACTOR) AND 6 GENERAL CAISSONS, IN SERVICE SINCE 1967. 3 CAISSONS ARE CURRENTLY ACTIVE. MIXED TRENCHES CONTAIN 9.9 KG PU OF REPORTED PU AND 6800 M3 OF CONT. SOIL; #7 HAS STORAGE PADS WITH ONE SECTION OF #7 AS AN EXPERIMENTAL VEE TRENCH. SITE IS 616'X656'

CONT. SOIL VOL.:	10000.00 M3
C14:	1.21 CI
C060:	2380.00 CI
SR90:	3020.00 CI
RU106:	147.00 CI
CS137:	2950.00 CI
U:	6050000.00 G
PU:	56800.00 G

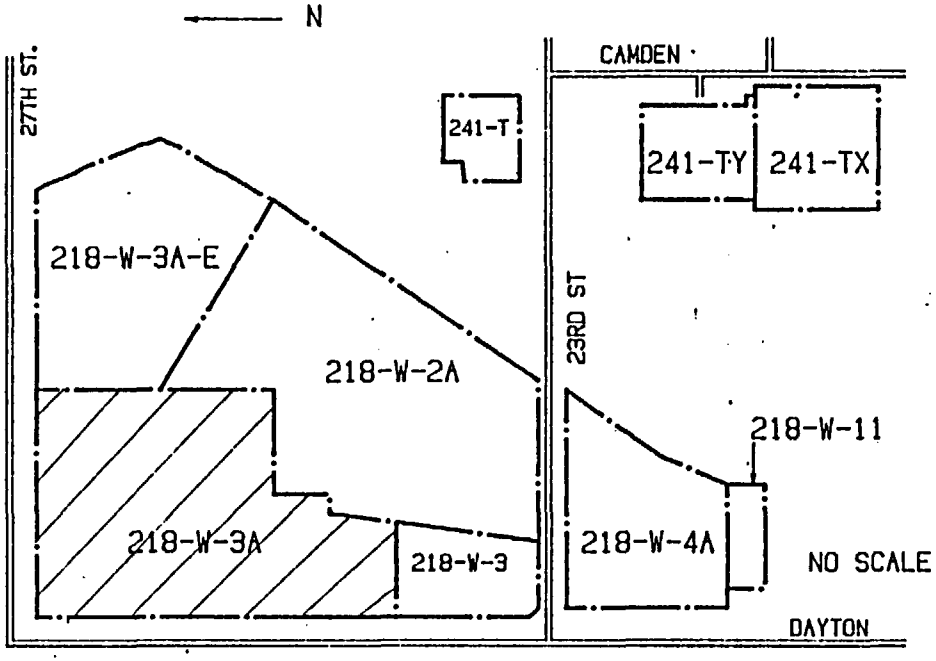
MATERIALS PRESENTED ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION

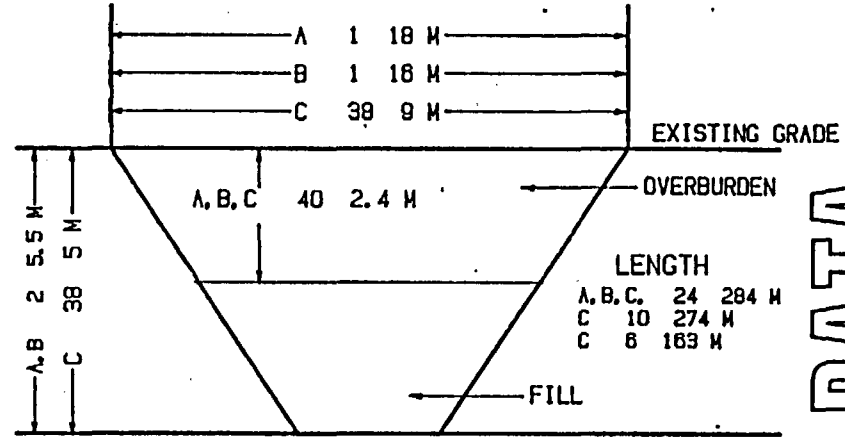
EPA TOUR BOOK
SEC.L, PG. 3

PRELIMINARY DATA

218-W-3A TRENCH

SITE DETAILED DESCRIPTION





218-W-3A
TRANSVERSE SECTION

PRELIMINARY DATA

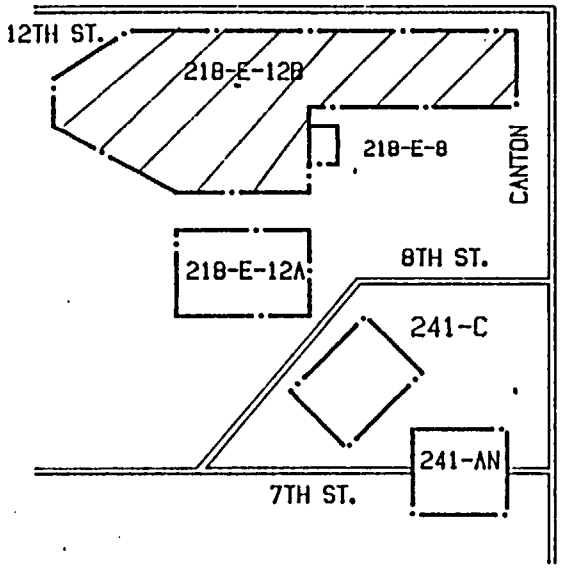
DESCRIPTION: 61 TRENCHES, CURRENTLY ACTIVE , IN SERVICE FROM 1970 TO PRES. THE WASTE CONSISTS OF STORED AND MIXED TRU/NON-TRU DRY INDUSTRIAL WASTE. FIVE OF THE TRENCHES CONTAIN STORED TRU. 40 KCI OF REPORTED MFP ARE IN SEGREGATED LOW LEVEL WASTE.

CONT. SOIL VOL.:	3900.00 M3
C14:	2090.00 CI
CO60:	42000.00 CI
SR90:	18700.00 CI
RU106:	154.00 CI
CS137:	21400.00 CI
U:	516000000.00 G
PU:	17900.00 G

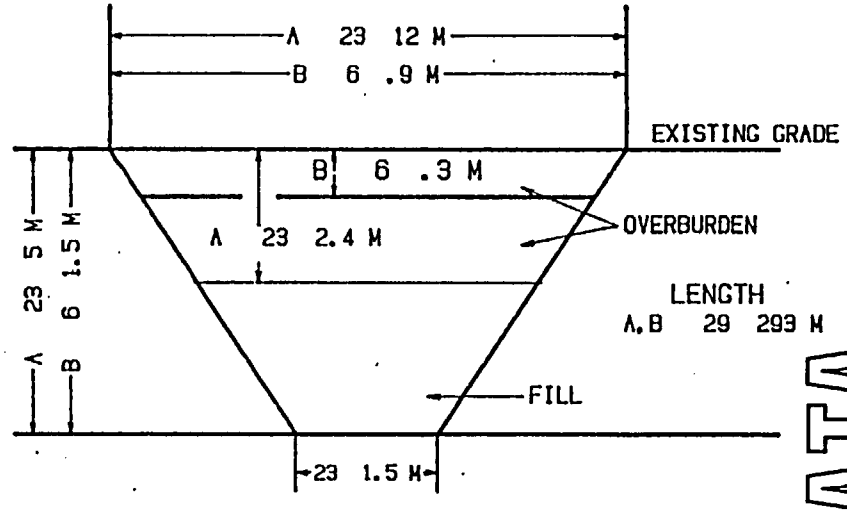
MATERIALS PRESENTED ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION

EPA TOUR BOOK
SEC.K, PG. 4

218-E-12B TRENCH SITE DETAILED DESCRIPTION



NO SCALE



218-E-12B
TRANSVERSE SECTION

PRELIMINARY DATA

DESCRIPTION: 139 TRENCHES, CURRENTLY ACTIVE , IN SERVICE FROM 1967 TO PRES. THE WASTE CONSISTS OF STORED, MIXED TRU/NON-TRU AND SEGREGATED MISCELLANEOUS WASTE. 5 TRENCHES CONTAIN STORED TRU. MIXED CONTAIN 1.2 KG PU OF REPORTED PU AND 4400 M3 CONT. SOIL. REPORTED MFP IN SEGRGATED LOW LEVEL WASTE.

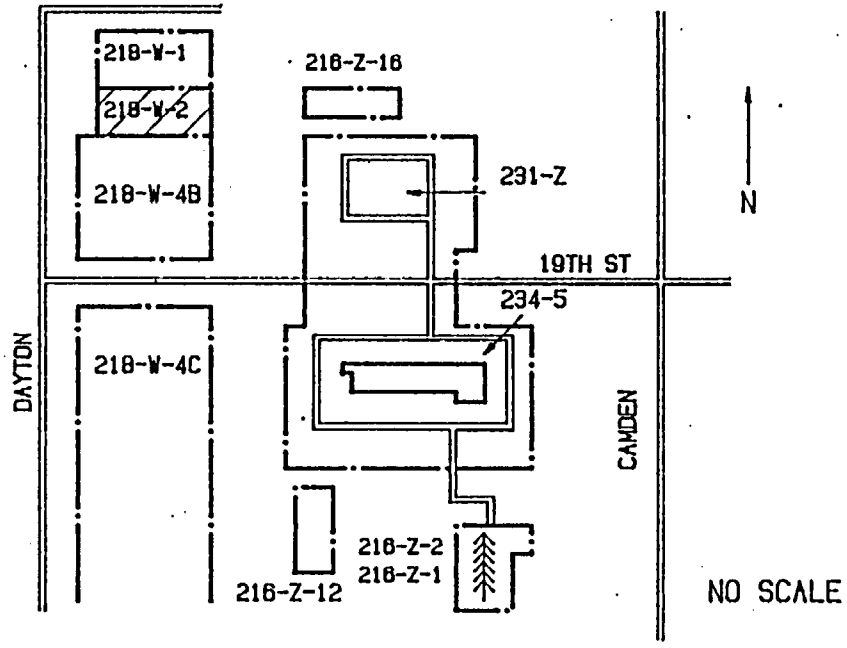
CONT. SOIL VOL.:	600.00 M3
C14:	0.00 CI
CO60:	65500.00 CI
SR90:	25700.00 CI
RU106:	126.00 CI
CS137:	25700.00 CI
U:	28500.00 G
PU:	1270.00 G

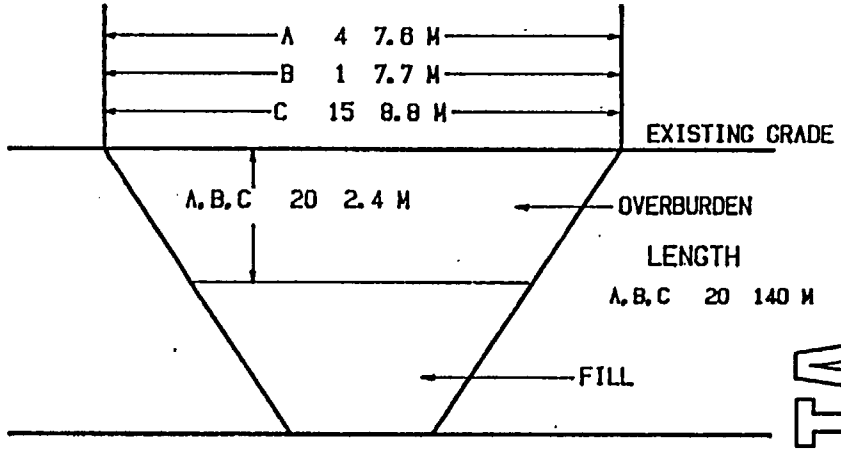
MATERIALS PRESENTED ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION

EPA TOUR BOOK
SEC.K, PG. 5

218-W-2 TRENCH

SITE DETAILED DESCRIPTION





218-W-2
TRANSVERSE SECTION

PRELIMINARY DATA

DESCRIPTION: 20 TRENCHES, CURRENTLY RETIRED, IN SERVICE FROM 1953 TO 1956. THE WASTE CONSISTS OF MIXED TRU/NON-TRU MISCELLANEOUS DRY MATERIALS.

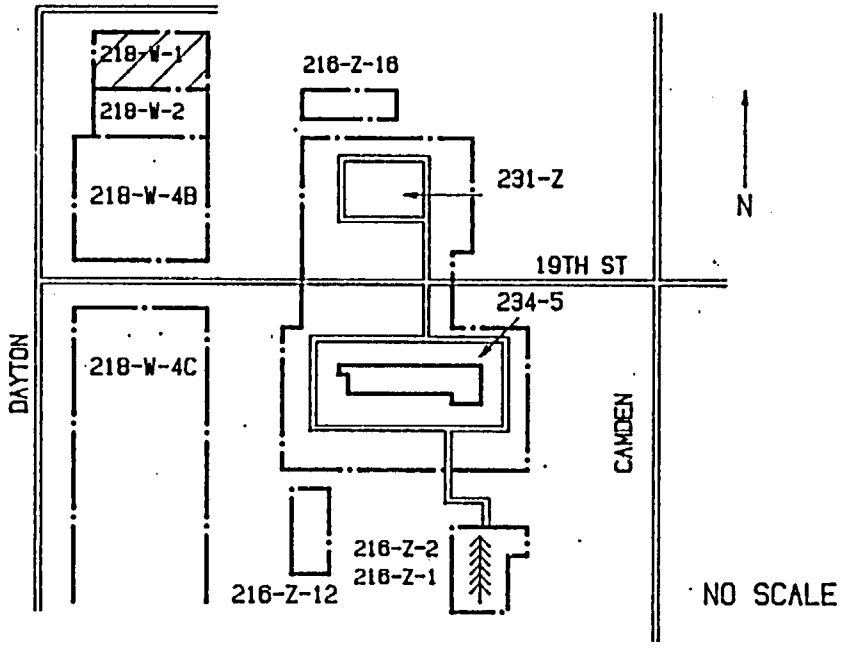
CONT. SOIL VOL.:	23000.00 M3
C14:	0.00 CI
CO60:	0.00 CI
SR90:	5.04 CI
RU106:	0.00 CI
CS137:	5.62 CI
U:	1400000.00 G
PU:	126000.00 G

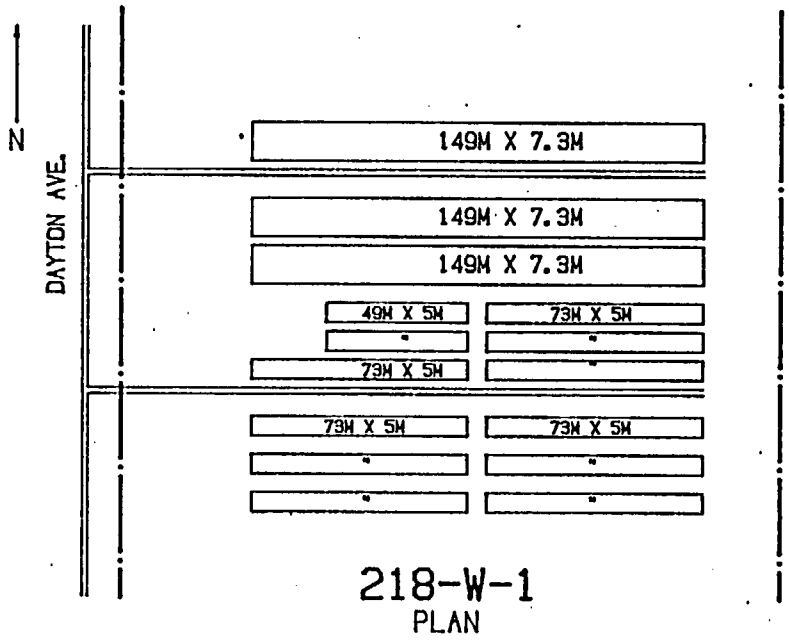
MATERIALS PRESENTED ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION

EPA TOUR BOOK
SEC.K, PG. 6

218-W-1 TRENCH

SITE DETAILED DESCRIPTION





PRELIMINARY DATA

DESCRIPTION: 15 TRENCHES, CURRENTLY RETIRED, IN SERVICE FROM 1944 TO 1952. THE WASTE CONSISTS OF MIXED TRU/NON-TRU MISCELLANEOUS DRY MATERIAL. THE 149 M LONG TRENCHES (3) ARE FLAT BOOTOM TRENCHES. THE 73 M LONG (10) AND 49 M LONG (2) ARE VEE TRENCHES.

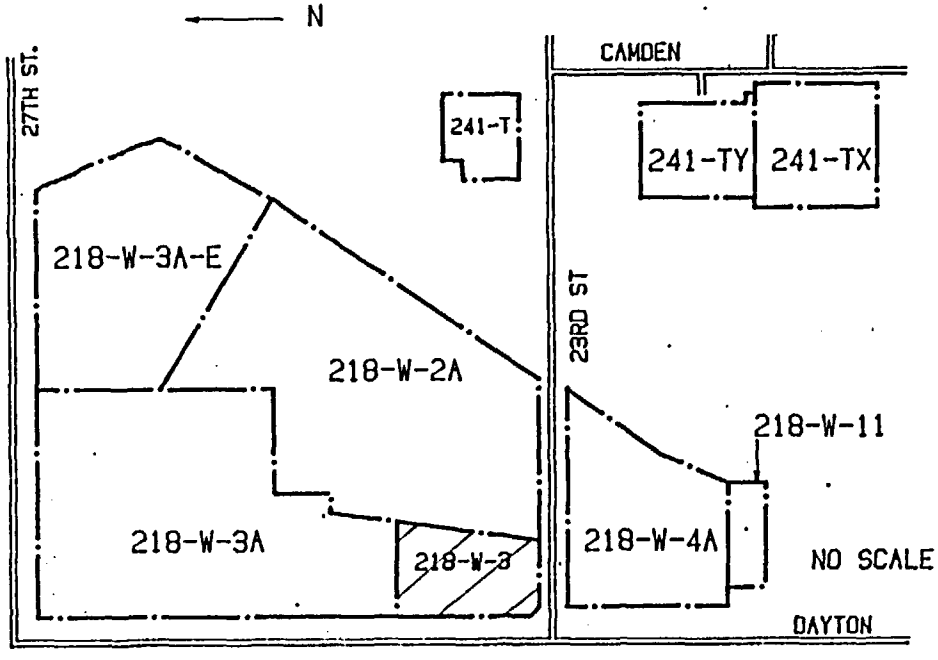
CONT. SOIL VOL.:	9000.00 M3
C14:	0.00 CI
CO60:	0.00 CI
SR90:	1.75 CI
RU106:	0.00 CI
CS137:	1.97 CI
U:	700000.00 G
PU:	94000.00 G

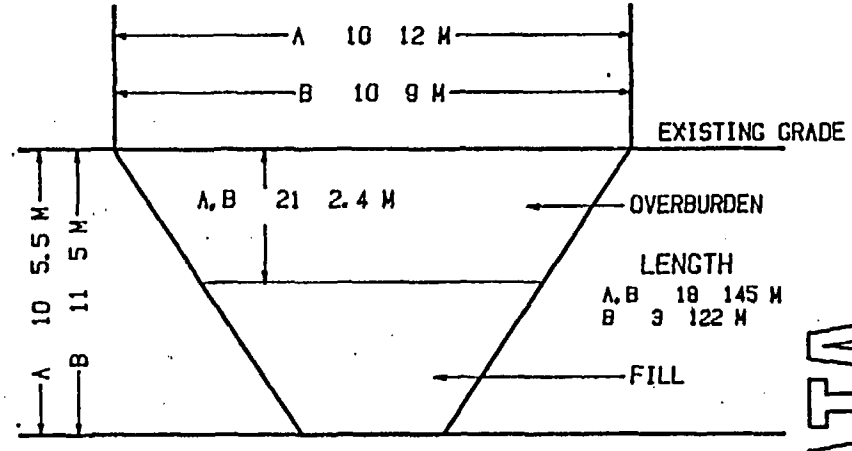
MATERIALS PRESENTED ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION

EPA TOUR BOOK
SEC.K, PG. 7

218-W-3 TRENCH

SITE DETAILED DESCRIPTION





218-W-3
TRANSVERSE SECTION

DESCRIPTION: 21 TRENCHES, CURRENTLY RETIRED, IN SERVICE FROM 1957 TO 1961. THE WASTE CONSISTS OF MIXED TRU/NON-TRU DRY WASTE. EXACT TRENCH WIDTHS ARE UNKNOWN.

CONT. SOIL VOL.:	25000.00 M3
C14:	0.00 CI
CO60:	0.00 CI
SR90:	9.93 CI
RU106:	0.00 CI
CS137:	11.00 CI
U:	700000000.00 G
PU:	68000.00 G

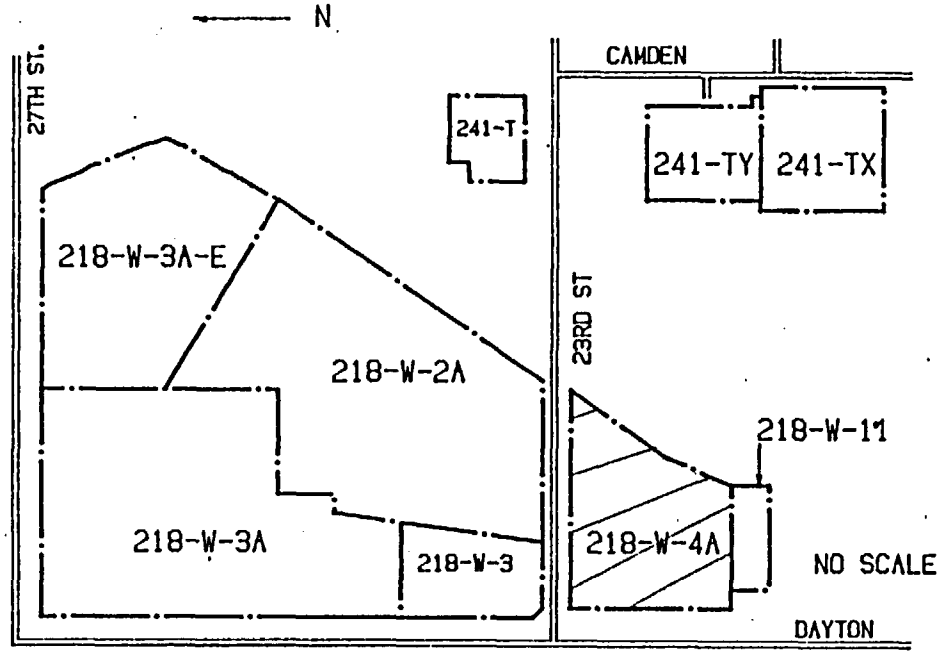
MATERIALS PRESENTED ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION

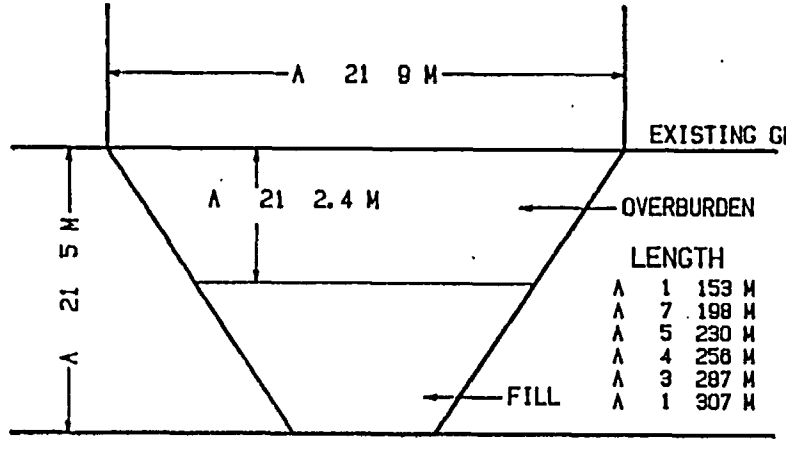
EPA TOUR BOOK
SEC.K, PG. 8

PRELIMINARY DATA

218-W-4A TRENCH

SITE DETAILED DESCRIPTION





218-W-4A
TRANSVERSE SECTION

PRELIMINARY DATA

DESCRIPTION: 21 TRENCHES, CURRENTLY RETIRED, IN SERVICE FROM 1961 TO 1967. THE WASTE CONSISTS OF MIXED TRU/NON-TRU MISCELLANEOUS DRY WASTE. SIX 4.6 M DRY WELLS WERE INSTALLED IN TRENCH NUMBER 16.

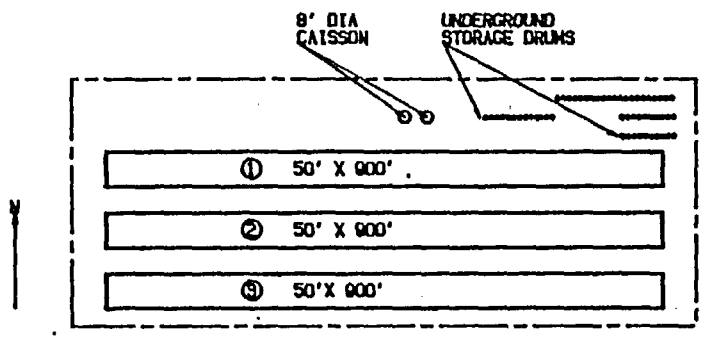
CONT. SOIL VOL.:	25000.00 M3
C14:	0.00 CI
CO60:	0.00 CI
SR90:	39.00 CI
RU106:	2.00E-03 CI
CS137:	42.80 CI
U:	500000000.00 G
PU:	35300.00 G

MATERIALS PRESENTED ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION

EPA TOUR BOOK
SEC.K, PG. 9

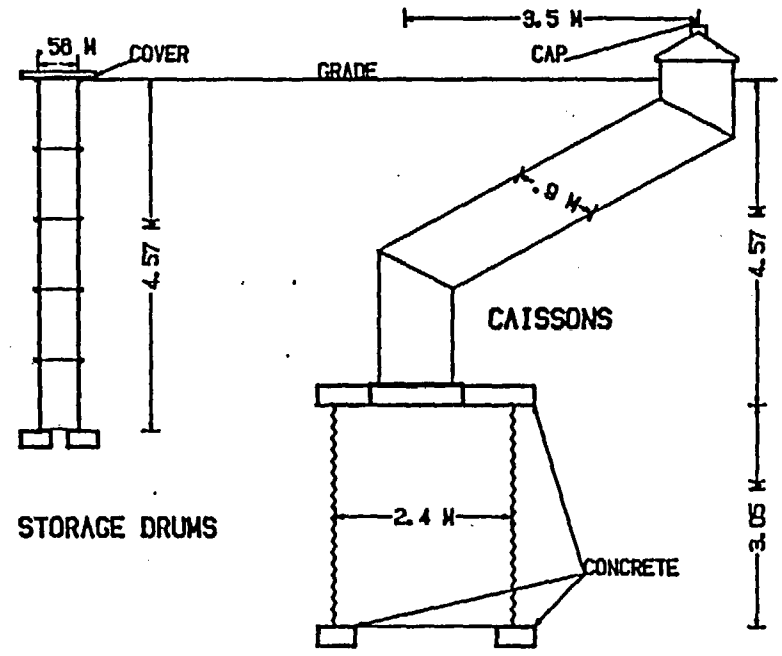
SITE DETAILED DESCRIPTION

618-11
TRENCH
PLAN



618-11

WPPSS #2



DESCRIPTION: 3 TRENCHES, 54 PIPE STORAGE UNITS AND 2 CAISSONS, CURRENTLY RETIRED, IN SERVICE FROM 1962 TO 1967. THE WASTE CONSISTS OF MISCELLANEOUS LOW TO HIGH LEVEL DRY MATERIAL. THE MAJORITY OF THE TRU IS BELIEVED TO BE IN THE CAISSONS. VARIOUS DATA SOURCES REPORT .1, 5 AND 10 KG OF TRU.

CONT. SOIL VOL.:	25000.00 M3
C14:	0.00 CI
C060:	0.00 CI
SR90:	0.00 CI
RU106:	0.00 CI
CS137:	0.00 CI
U:	0.00 G
PU:	10000.00 G

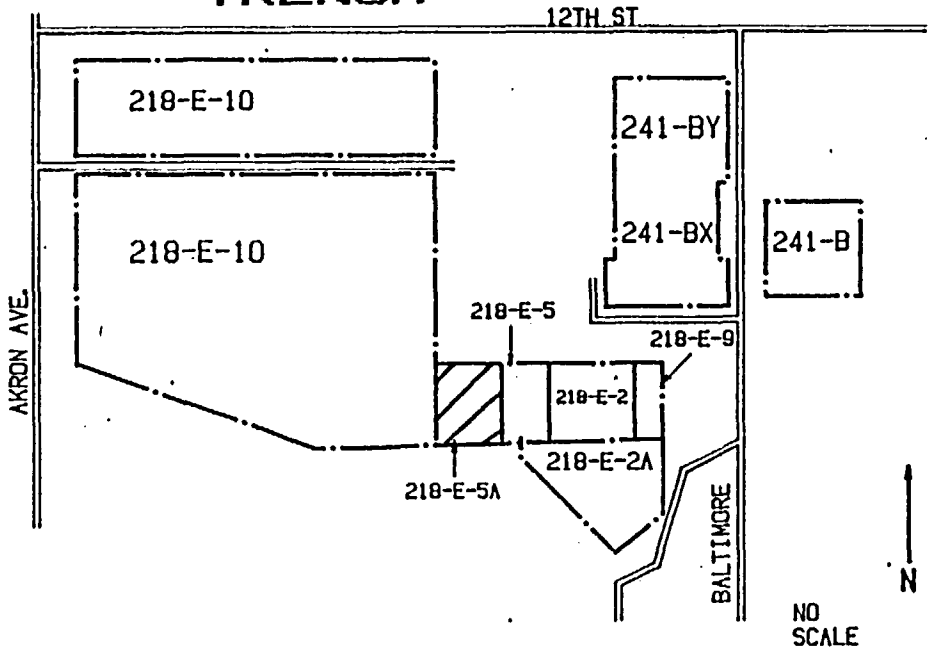
PRELIMINARY DATA

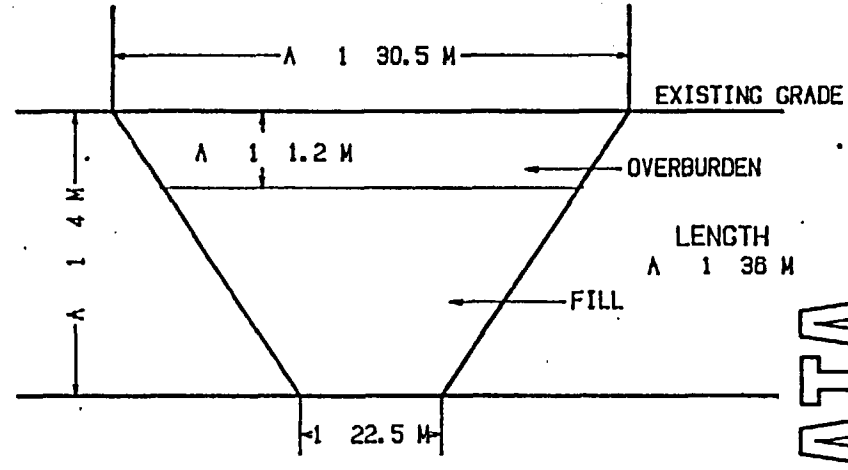
MATERIALS PRESENTED ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION

EPA TOUR BOOK
SEC.L, PG. 10

218-E-5A TRENCH

SITE DETAILED DESCRIPTION





218-E-5A
TRANSVERSE SECTION

DESCRIPTION: 1 TRENCHES, CURRENTLY RETIRED, IN SERVICE FROM 1956 TO 1959. THE WASTE CONSISTS OF MIXED TRU/NON-TRU EQUIPMENT/INDUSTRIAL WASTE IN FOUR LARGE WOODEN BOXES.

CONT. SOIL VOL.:	2200.00 M3
C14:	0.00 CI
CO60:	0.00 CI
SR90:	179.00 CI
RU106:	4.00E-05 CI
CS137:	199.00 CI
U:	120000.00 G
PU:	1380.00 G

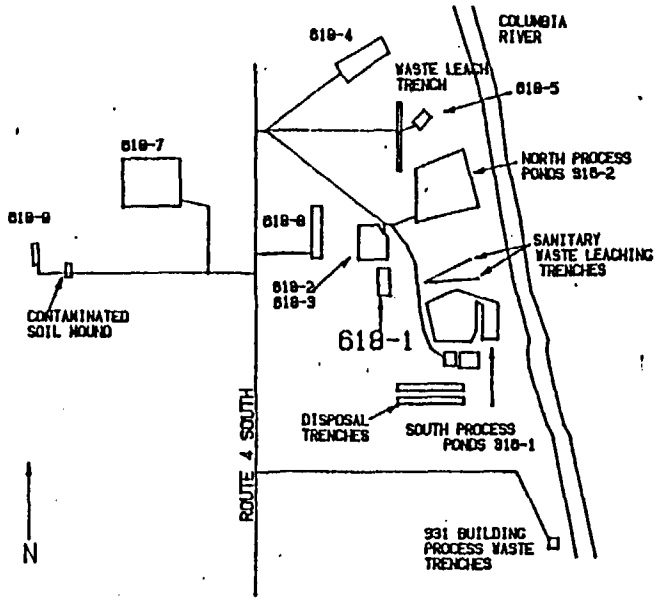
MATERIALS PRESENTED ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION

EPA TOUR BOOK
SEC.K, PG. 11

PRELIMINARY DATA

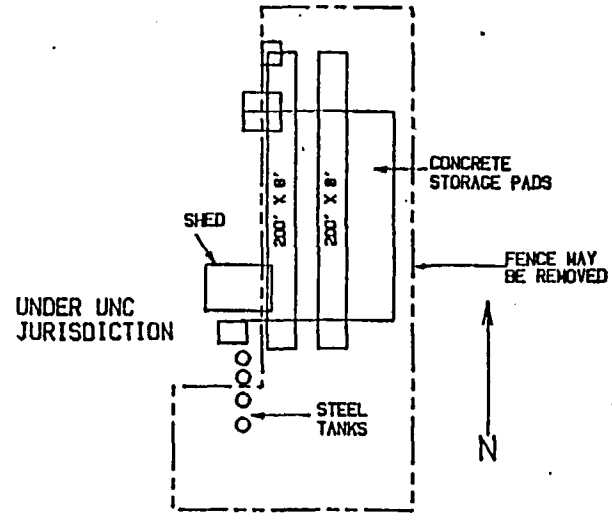
618-1 TRENCH

SITE DETAILED DESCRIPTION



NO SCALE

618-1
PLAN



PRELIMINARY DATA

DESCRIPTION: 2 TRENCHES, CURRENTLY RETIRED, IN SERVICE FROM 1945 TO 1957. THE WASTE CONSISTS OF URANIUM, PLUTONIUM AND MFP 300 AREA LAB MATERIAL. THERE ARE A SERIES OF PITS RUNNING EAST-WEST ACROSS THE SITE. TRENCHES ARE 2.4 M DEEP. STEEL TANKS MAY NOT EXIST. SITE IS UNDER UNC JURISDICTION.

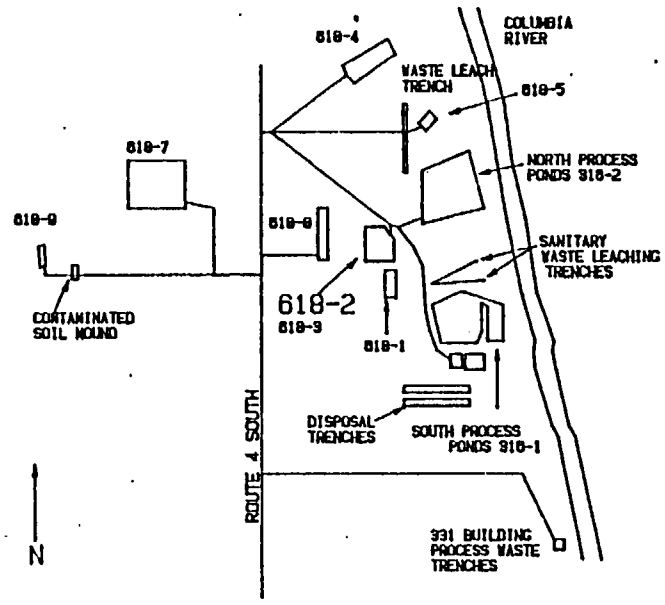
CONT. SOIL VOL.:	470.00 M3
C14:	0.00 CI
CO60:	0.00 CI
SR90:	0.00 CI
RU106:	0.00 CI
CS137:	0.00 CI
U:	0.00 G
PU:	1000.00 G

MATERIALS PRESENTED ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION

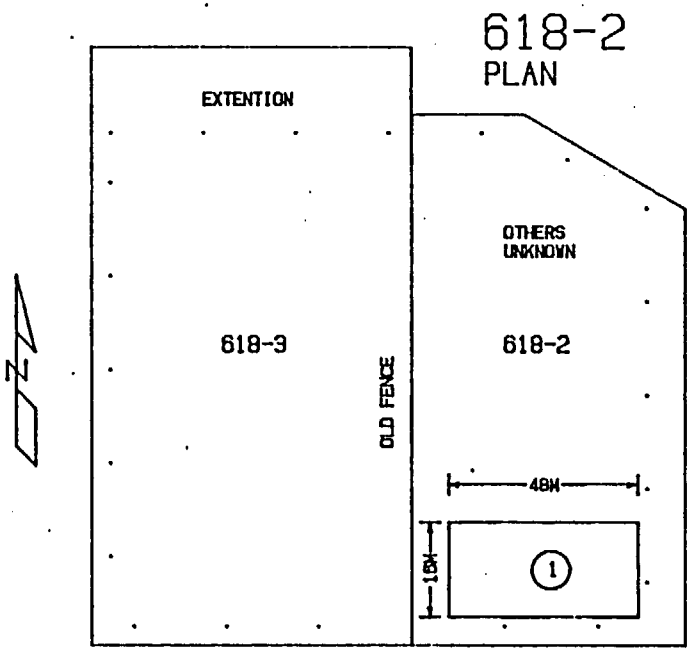
EPA TOUR BOOK
SEC.K, PG. 12

618-2 TRENCH

SITE DETAILED DESCRIPTION



NO SCALE



DESCRIPTION: 4 TRENCHES, CURRENTLY RETIRED, IN SERVICE FROM 1951 TO 1954. THE WASTE CONSISTS OF URANIUM, PLUTONIUM AND MFP EQUIPMENT AND MATERIAL. URANIUM WASTE IS PROBABLY SOLID METALLIC OXIDES IN THE FORM OF METAL CUTTINGS. THE KNOWN TRENCH IS 4.6 M BELOW GRADE.

CONT. SOIL VOL.:	710.00 M3
C14:	0.00 CI
CO60:	0.00 CI
SR90:	0.00 CI
RU106:	0.00 CI
CS137:	0.00 CI
U:	0.00 G
PU:	1000.00 G

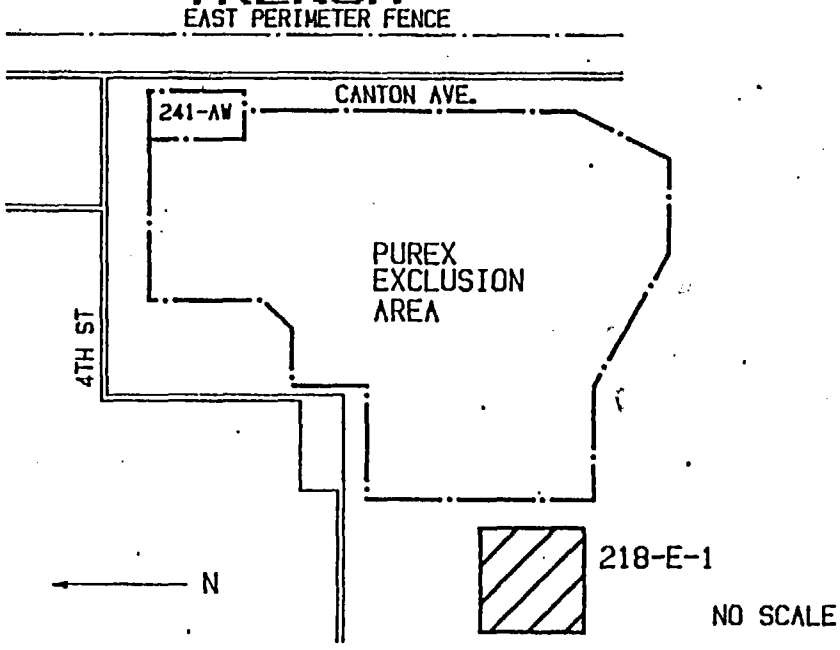
MATERIALS PRESENTED ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION

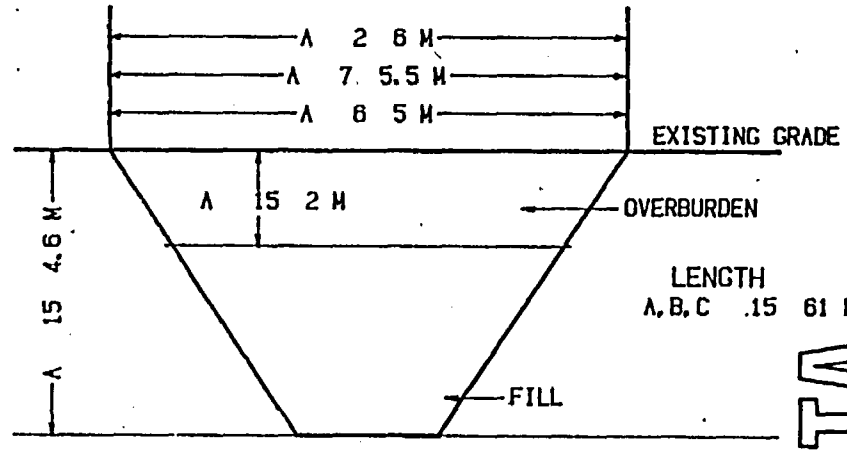
EPA TOUR BOOK
SEC.K, PG. 13

PRELIMINARY DATA

218-E-1 TRENCH

SITE DETAILED DESCRIPTION





218-E-1
TRANSVERSE SECTION

DESCRIPTION: 15 TRENCHES, CURRENTLY RETIRED, IN SERVICE FROM 1945 TO 1953. THE WASTE CONSISTS OF MIXED TRU/NON-TRU DRY WASTES. SUNKEN TRENCHES WERE FILLED WITH CINDERS AND GRAVEL. PUREX FENCE MAY BE EXTENDED OVER SITE.

CONT. SOIL VOL.:	3000.00 M3
C14:	0.00 CI
CO60:	0.00 CI
SR90:	.87 CI
RU106:	0.00 CI
CS137:	.98 CI
U:	400000.00 G
PU:	900.00 G

MATERIALS PRESENTED ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION

EPA TOUR BOOK
SEC.K, PG. 14

PRELIMINARY DATA

CONTENTS

SECTION A - SINGLE-SHELL AND DOUBLE-SHELL TANK SUMMARY
SECTION B - SINGLE-SHELL TANK SUMMARY DATA
SECTION C - SINGLE-SHELL TANK SPECIFIC DATA
SECTION D - SINGLE-SHELL TANK SAMPLING PLAN
SECTION E - SINGLE-SHELL TANK LEAK DATA
SECTION F - DOUBLE-SHELL TANK SUMMARY DATA
SECTION G - DOUBLE-SHELL TANK SPECIFIC DATA
SECTION H - CAPSULE SUMMARY DATA (B PLANT)
SECTION I - TRANSURANICS (TRU) SITE SUMMARY
SECTION J - SOLID TRU WASTE SITE SPECIFIC DATA
SECTION K - LIQUID TRU WASTE SITE SPECIFIC DATA
SECTION L - LIQUID TRU WASTE SITE PLUME DATA
SECTION M - ENGINEERED BARRIER TEST

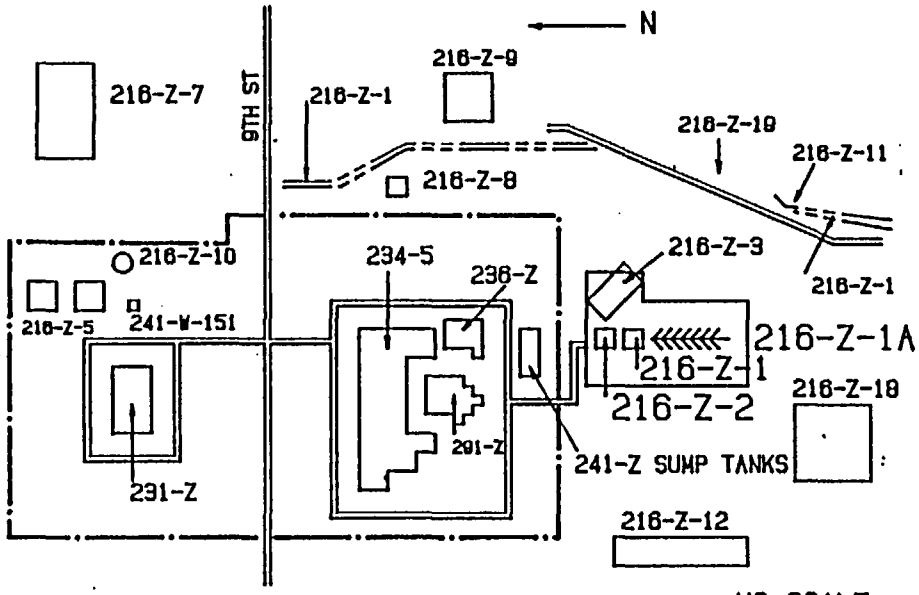
TRU LIQUID WASTE SITE SUMMARY SHEET

SITE NAME	TYPE	TRU CONCENTRATION NCI/G	TRU MASS KG	MFP (SR90 + CS137) CURIES
216-Z-1+2TF	CRIB	410.00	64.00	.35
216-Z-9	TRENCH	510.00	38.00	.12
216-Z-12	CRIB	248.00	25.00	.13
216-Z-18	CRIB	215.00	23.00	0.00
216-Z-11	DITCH	120.00	7.90	5.00
216-Z-3	CRIB	203.00	5.70	.12
216-B-5	REVERSE WELL	1420.00	4.30	66.00
216-B-7A+B	CRIB	533.00	4.30	2700.00
216-T-3	REVERSE WELL	16200.00	3.40	48.00
216-T-32	CRIB	371.00	3.20	25.00
216-Z-7	CRIB	181.00	2.00	490.00
216-T-18	CRIB	163.00	1.80	32.00
216-E-15	UNPLANNED	246.00	1.20	0.00
216-S-1+2	CRIB	37.60	1.20	2800.00
216-T-6	CRIB	71.70	.39	280.00
216-Z-5	CRIB	86.30	.34	6.30
216-T-5	TRENCH	218.00	.18	38.00
216-Z-19	DITCH	14.00	.14	5.00
216-Z-1	DITCH	16.00	.13	240.00
216-B-53A	TRENCH	222.00	.10	.13
216-Z-10	REVERSE WELL	15700.00	.05	0.00
216-Z-8	FRENCH DRAIN	445.00	.04	0.00

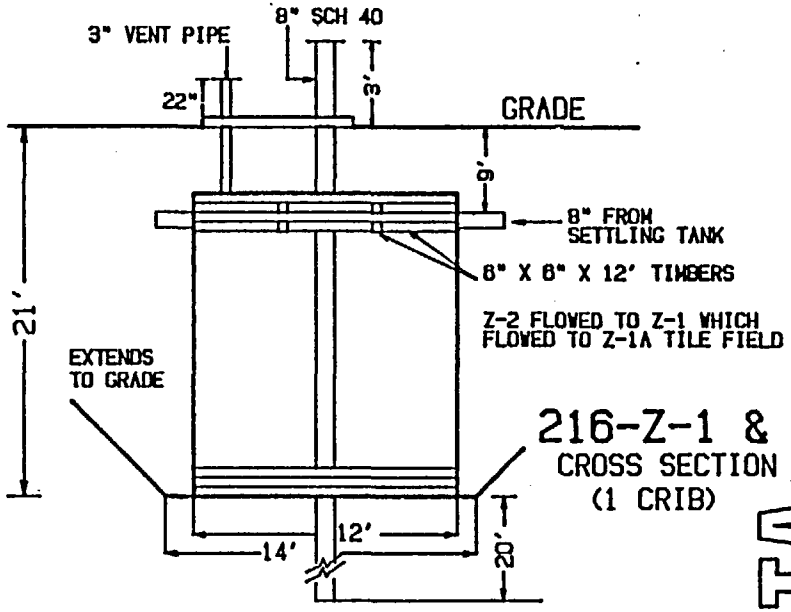
MATERIALS PRESENTED ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION

PRELIMINARY DATA

216-Z-1+2TF SITE DETAILED DESCRIPTION
CRIB



NO SCALE



216-Z-1 & 2
CROSS SECTION
(1 CRIB)

PRELIMINARY DATA

DESCRIPTION: TWO WOODEN CRIBS AND A 250' TILE FIELD, CURRENTLY RETIRED, IN SERVICE FROM 1949 TO 1969. THE SITE RECEIVED PROCESS AND LAB WASTE FROM 234-5Z AND 242-Z BLDGS., OVERFLOW FROM 216-Z-3 CRIB AND ORGANIC & URANIUM WASTE FROM 236-Z BLDG. BREAKTHROUGH TO GROUNDWATER HAS NOT OCCURRED.

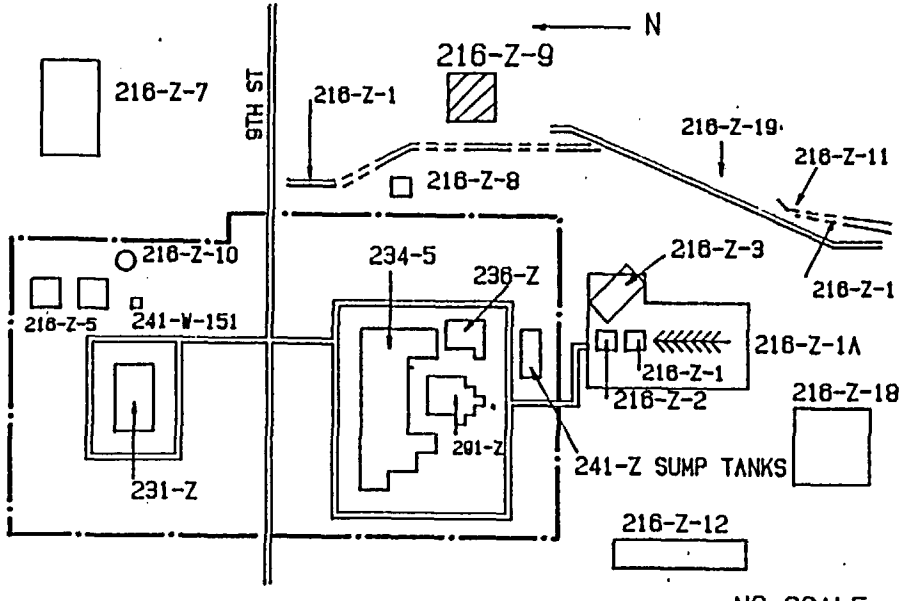
CONT. SOIL VOL.:	8300.00 M3
C14:	0.00 CI
C060:	.02 CI
SR90:	.17 CI
RU106:	1.09E-03 CI
CS137:	.18 CI
U:	81000.00 G
PU:	64400.00 G

MATERIALS PRESENTED ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION

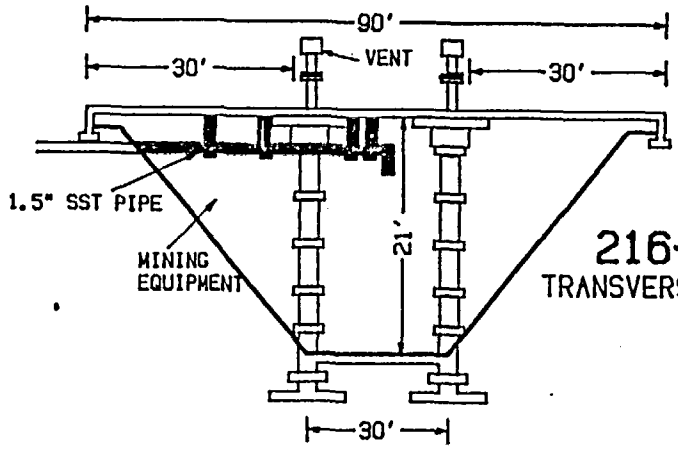
EPA TOUR BOOK
SEC.L, PG. 2

216-Z-9 TRENCH

SITE DETAILED DESCRIPTION



NO SCALE



216-Z-9
TRANSVERSE SECTION

PRELIMINARY DATA

DESCRIPTION: TRENCH, 60' BOTTOM LENGTH, CURRENTLY RETIRED, IN SERVICE FROM 1955 TO 1962. THE SITE RECEIVED RECUPLEX CURRENT ACID WASTE (CAW) AND ORGANIC WASTE FROM 234-5Z BLDG. THE TRENCH WAS MINED FROM 1976 TO 1978. BREAKTHROUGH TO GROUNDWATER HAS NOT OCCURRED

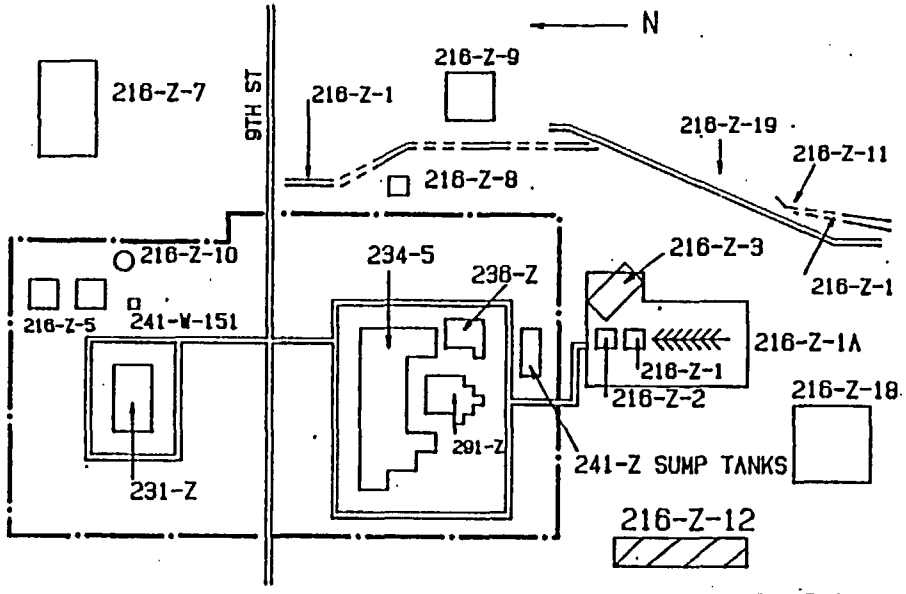
CONT. SOIL VOL.:	4000.00 M3
C14:	0.00 CI
CO60:	5.87E-03 CI
SR90:	.05 CI
RU106:	0.00 CI
CS137:	.06 CI
U:	50.00 G
PU:	38300.00 G

MATERIALS PRESENTED ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION

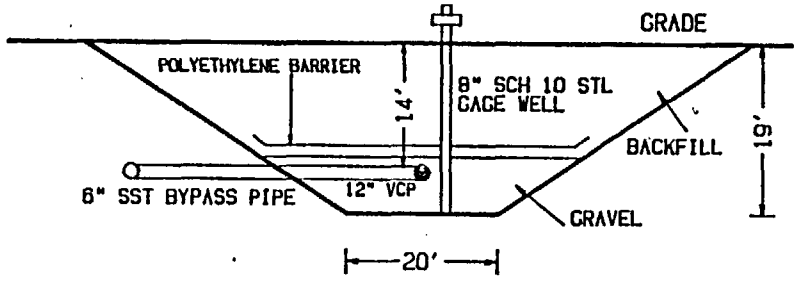
EPA TOUR BOOK
SEC.L, PG. 3

216-Z-12 CRIB

SITE DETAILED DESCRIPTION



NO SCALE



216-Z-12
TRANSVERSE SECTION

PRELIMINARY DATA

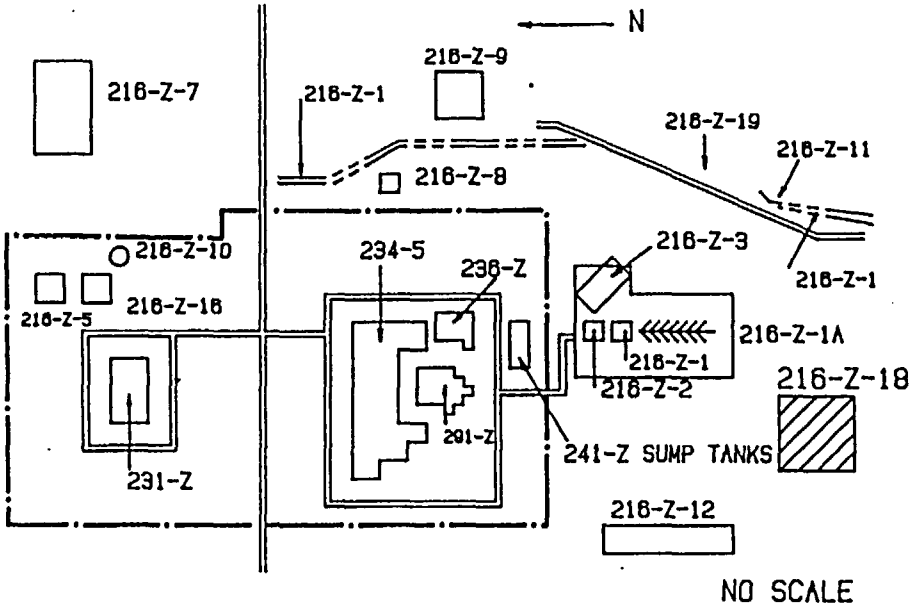
DESCRIPTION: CRIB, 1300' BOTTOM LENGTH, CURRENTLY RETIRED, IN SERVICE FROM 1959 TO 1973. THE SITE RECEIVED PROCESS AND LAB WASTE FROM 234-5Z BLDG. VIA THE 241-Z-361 SETTLING TANK. BREAKTHROUGH TO GROUNDWATER HAS NOT OCCURRED.

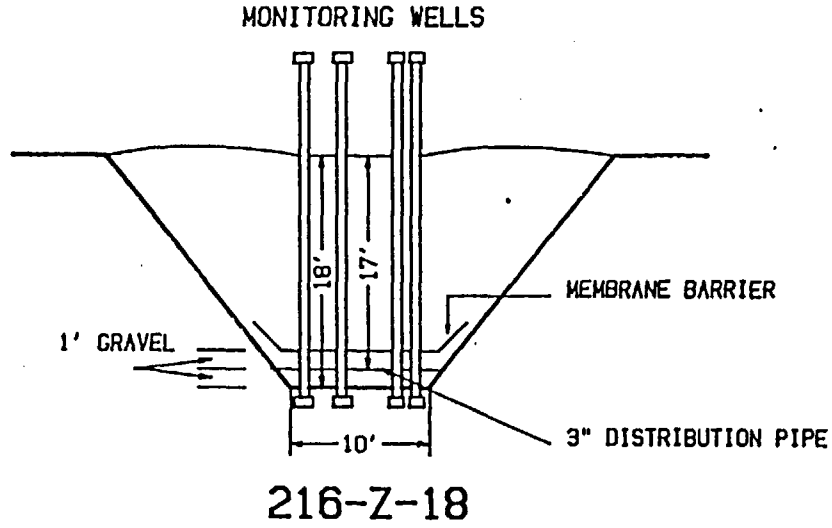
CONT. SOIL VOL.:	5400.00 M3
C14:	0.00 CI
C060:	7.64E-03 CI
SR90:	.06 CI
RU106:	2.00E-04 CI
CS137:	.06 CI
U:	50.00 G
PU:	25100.00 G

MATERIALS PRESENTED ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION

EPA TOUR BOOK
SEC.L, PG. 4

216-Z-18 CRIB SITE DETAILED DESCRIPTION





DESCRIPTION: CRIB CONSISTING OF 5 PARALLEL EXCAVATIONS EACH WITH A BOTTOM LENGTH OF 207', CURRENTLY RETIRED, IN SERVICE FROM 1969 TO 1973. THE SITE RECEIVED WASTE FROM 236-Z AND 542-Z BLDGS. 2 FRE PIPES EXIT EACH SIDE OF DISTRIBUTION LINE PER TRENCH. EACH TRENCH HAS VENT. BREAKTHROUGH TO GR. WATER HAS NOT OCCD.

CONT. SOIL VOL.:	5700.00 M3
C14:	0.00 CI
CO60:	0.00 CI
SR90:	0.00 CI
RU106:	0.00 CI
CS137:	0.00 CI
U:	0.00 G
PU:	23000.00 G

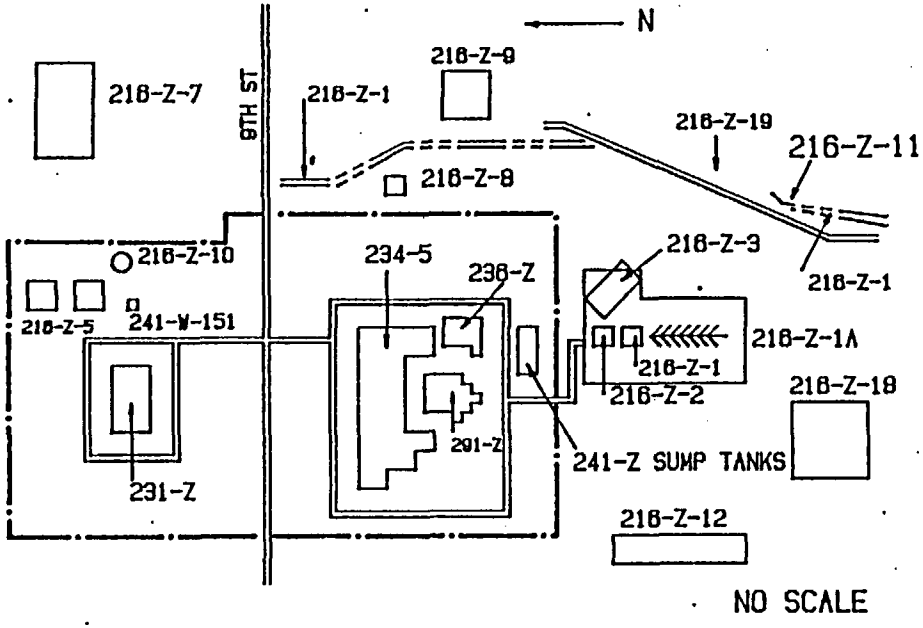
MATERIALS PRESENTED ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION

EPA TOUR BOOK
SEC.L, PG. 5

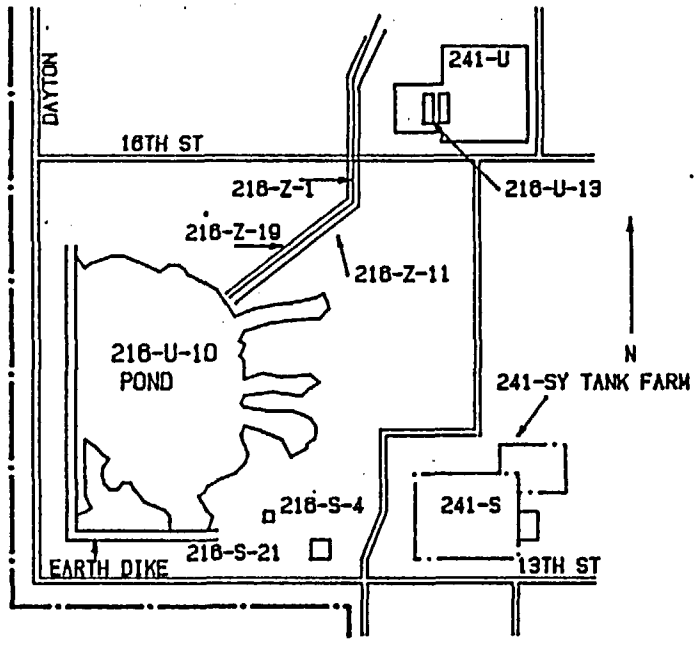
PRELIMINARY DATA

216-Z-11 DITCH

SITE DETAILED DESCRIPTION



216-Z-11
PLAN



DESCRIPTION: DITCH, 2615' LONG, CURRENTLY RETIRED, IN SERVICE FROM 1959 TO 1971. THE SITE RECEIVED PROCESS COOLING WATER, STEAM CONDENSATE,SEAL WATER, AND LAB WASTE FROM 234-5Z,291-Z,AND 231-Z BLDGS. TIMBER HEADWALLS ARE CONSTRUCTED NORTH AND SOUTH OF 16TH STREET.

CONT. SOIL VOL.:	3500.00 M3
C14:	0.00 CI
CO60:	.13 CI
SR90:	2.63 CI
RU106:	1.00E-03 CI
CS137:	0.00 CI
U:	47000.00 G
PU:	7900.00 G

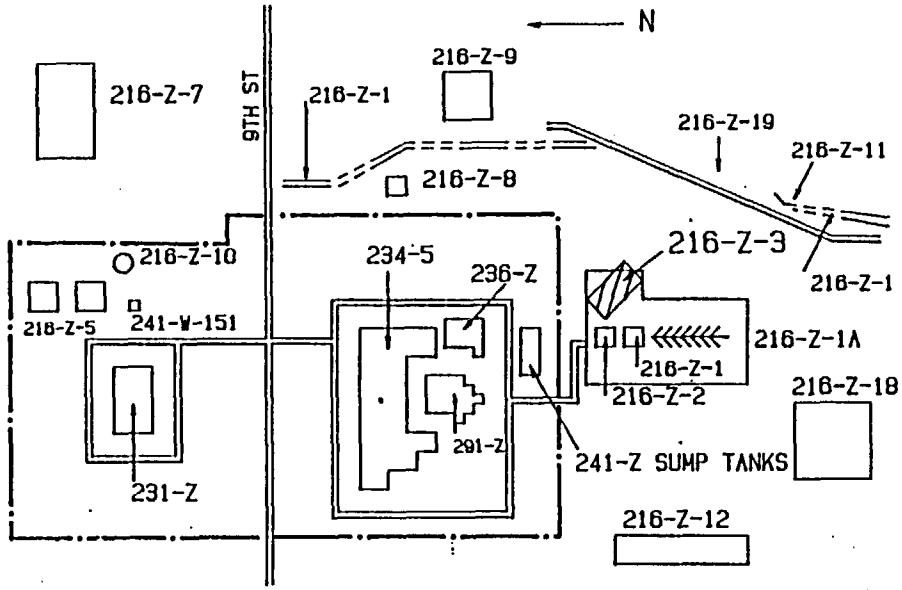
MATERIALS PRESENTED ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION

EPA TOUR BOOK
SEC.L, PG. 6

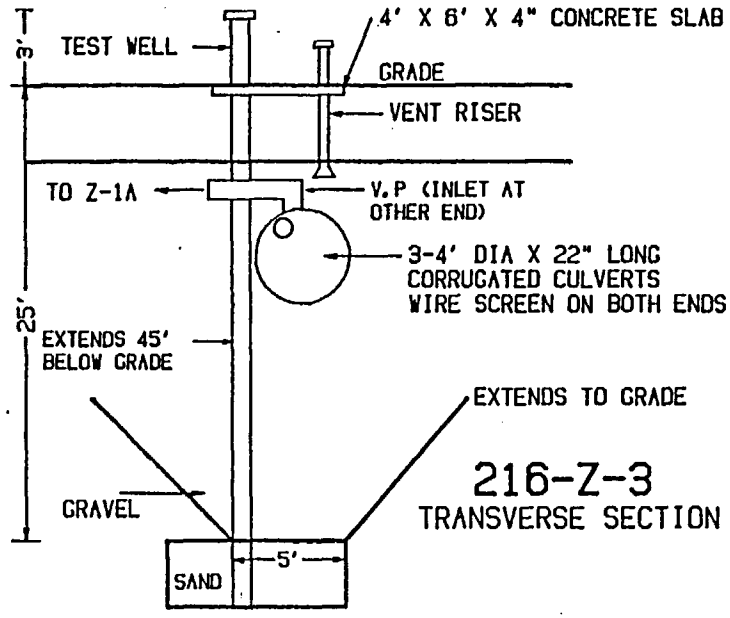
PRELIMINARY DATA

216-Z-3 CRIB

SITE DETAILED DESCRIPTION



NO SCALE



216-Z-3
TRANSVERSE SECTION

DESCRIPTION: CRIB CONTAINING THREE PERFORATED CULVERTS PLACED HORIZONTALLY IN AN EXCAVATION WITH 70' BOTTOM LENGTH, CURRENTLY RETIRED, IN SERVICE FROM 1952 TO 1959. THE SITE RECEIVED PROCESS AND LAB WASTE FROM 234-52 BLDG. VIA 241-Z SETTLING TANK. BREAKTHROUGH TO GROUNDWATER HAS NOT OCCURRED

CONT. SOIL VOL.:	1500.00 M3
C14:	0.00 CI
C060:	3.95E-03 CI
SR90:	.05 CI
RU106:	0.00 CI
CS137:	.05 CI
U:	50.00 G
PU:	5700.00 G

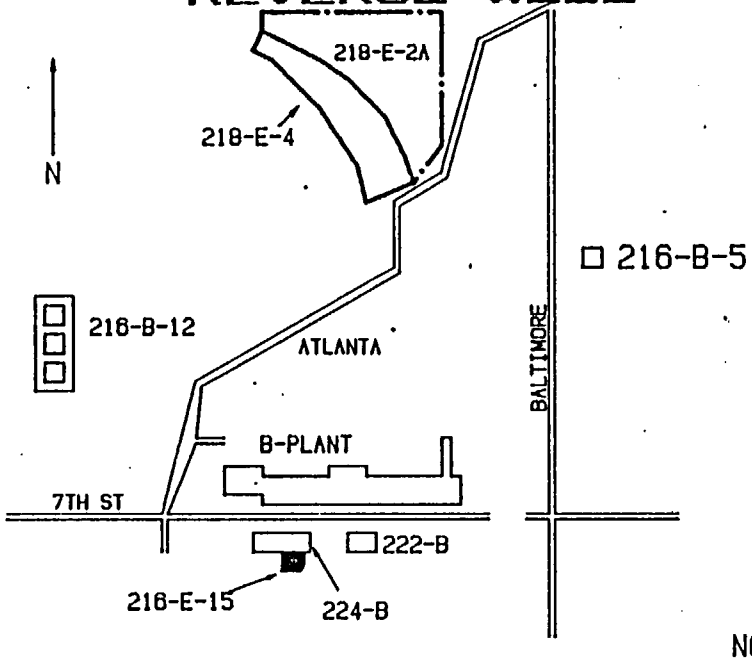
MATERIALS PRESENTED ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION

EPA TOUR BOOK
SEC.L, PG. 7

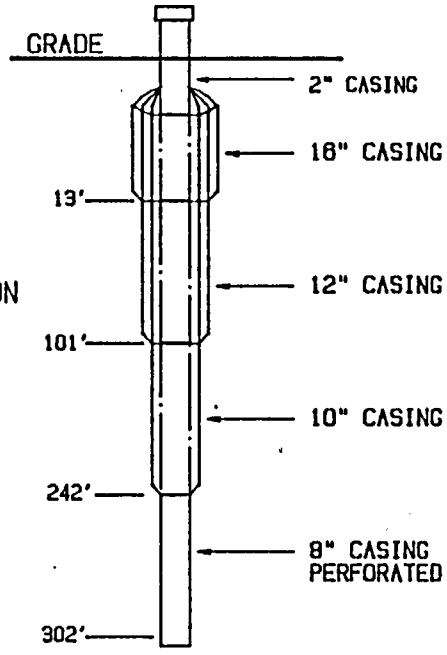
PRELIMINARY DATA

216-B-5 REVERSE WELL

SITE DETAILED DESCRIPTION



NO SCALE



216-B-5
CROSS SECTION

PRELIMINARY DATA

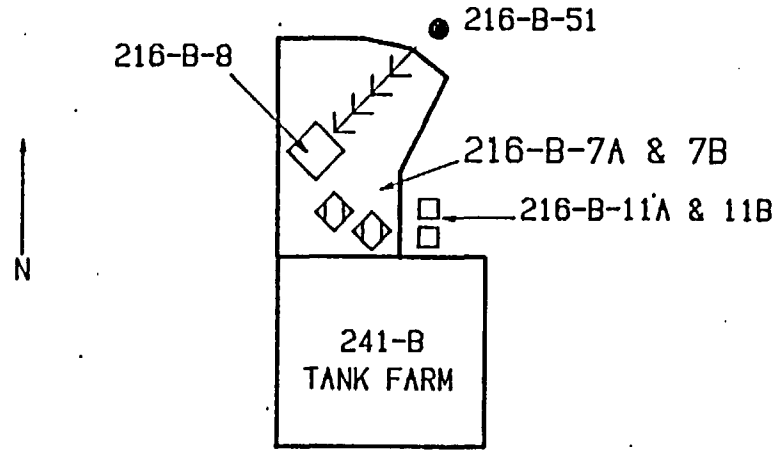
DESCRIPTION: REVERSE WELL, 302' LONG, CURRENTLY RETIRED, IN SERVICE FROM 1945 TO 1947. SITE RECEIVED CELL DRAINAGE AND MISCELLANEOUS LIQUID WASTES FROM 224-B BLDG. (VIA 241-B-361 SETTLING TANK) AND 223-B BLDG. WELL PENETRATED GROUNDWATER.

CONT. SOIL VOL.:	160.00 M3
C14:	0.00 CI
C060:	0.00 CI
SR90:	30.80 CI
RU106:	0.00 CI
CS137:	34.80 CI
U:	0.00 G
PU:	4270.00 G

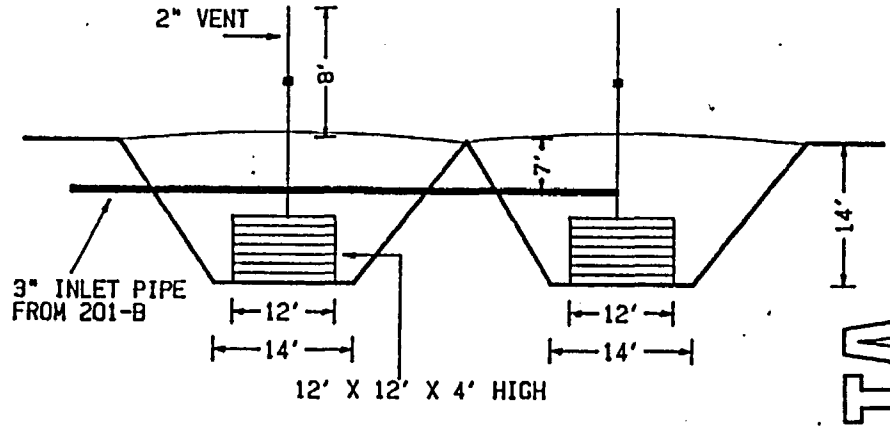
MATERIALS PRESENTED ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION

EPA TOUR BOOK
SEC.L, PG. 8

216-B-7A+B CRIB SITE DETAILED DESCRIPTION



216-B-7A & 7B
LONGITUDINAL SECTION



NO SCALE

DESCRIPTION: TWO CRIBS, WOODEN, EACH PLACED IN A 14' X 14' X 14' EXCAVATION, CURRENTLY RETIRED, IN SERVICE FROM 1946 TO 1967. SITE RECEIVED CELL DRAINAGE AND DECONTMINATION WASTES FROM 224-B BLDG. (VIA 201-B TANK) AND 221-B BLDG. BREAKTHROUGH TO GROUNDWATER HAS NOT OCCURRED.

CONT. SOIL VOL.:	430.00 M3
C14:	0.00 CI
C060:	.02 CI
SR90:	2670.00 CI
RU106:	0.00 CI
CS137:	51.60 CI
U:	182000.00 G
PU:	4300.00 G

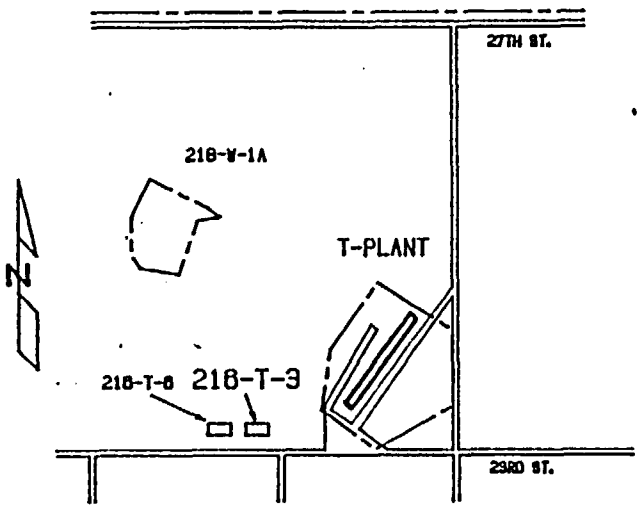
MATERIALS PRESENTED ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION

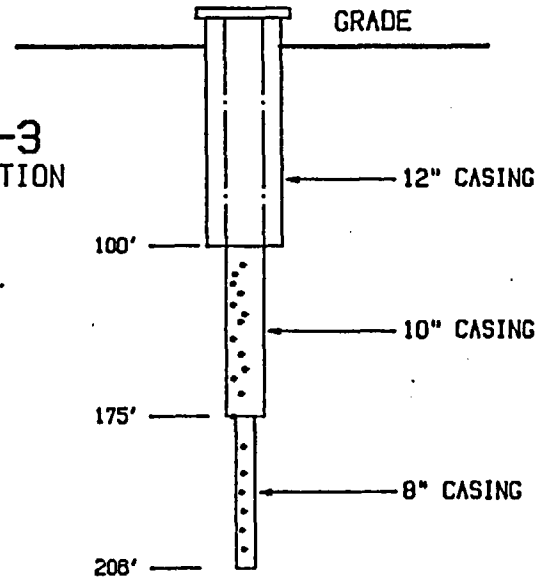
EPA TOUR BOOK
SEC.L, PG. 9

PRELIMINARY DATA

216-T-3 REVERSE WELL

SITE DETAILED DESCRIPTION





NO SCALE

DESCRIPTION: REVERSE WELL, 206 FT LONG, CURRENTLY RETIRED, IN SERVICE FROM 1945 TO 1946. THE SITE RECEIVED CELL DRAINAGE AND MISCELLANEOUS WASTES FROM 221-T AND 224-T BLDGS. VIA 241-T-361 SETTLING TANK. WELL PENETRATED GROUNDWATER

CONT. SOIL VOL.:	11.00 M3
C14:	0.00 CI
CO60:	0.00 CI
SR90:	22.50 CI
RU106:	0.00 CI
CS137:	25.40 CI
U:	0.00 G
PU:	3350.00 G

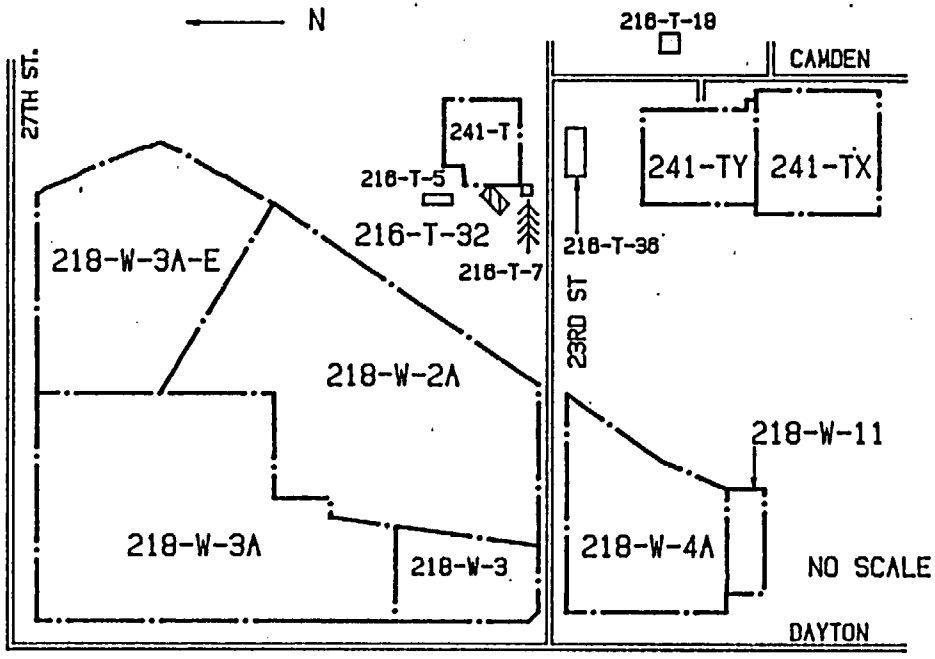
MATERIALS PRESENTED ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION

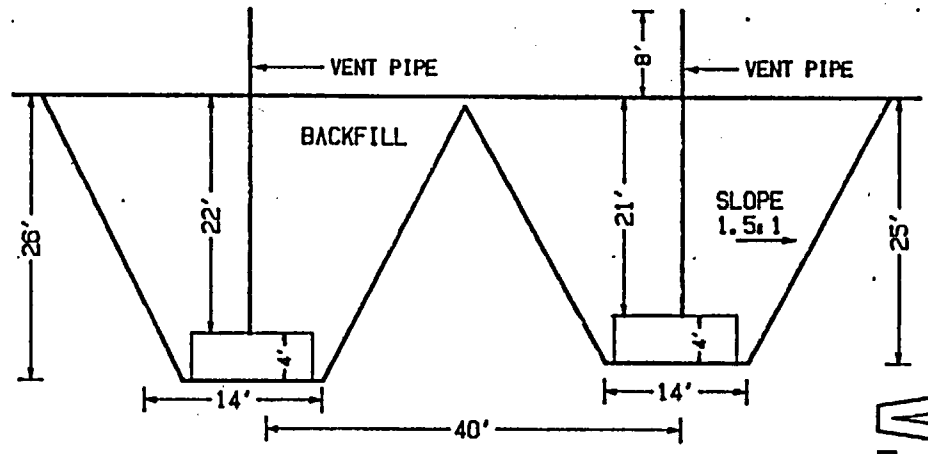
PRELIMINARY DATA

EPA TOUR BOOK
SEC.L, PG. 10

216-T-32 CRIB

SITE DETAILED DESCRIPTION





216-T-32

LONGITUDINAL SECTION

PRELIMINARY DATA

DESCRIPTION: TWO WOODEN CRIBS PLACED IN AN EXCAVATION WITH A BOTTOM AREA OF 68' X 14', CURRENTLY RETIRED, IN SERVICE FROM 1946 TO 1952. THE SITE RECEIVED WASTE FROM 224-T BLDG. VIA THE 201-T TANK IN THE 241-T TANK FARM. BREAKTHROUGH TO GROUNDWATER HAS NOT OCCURRED.

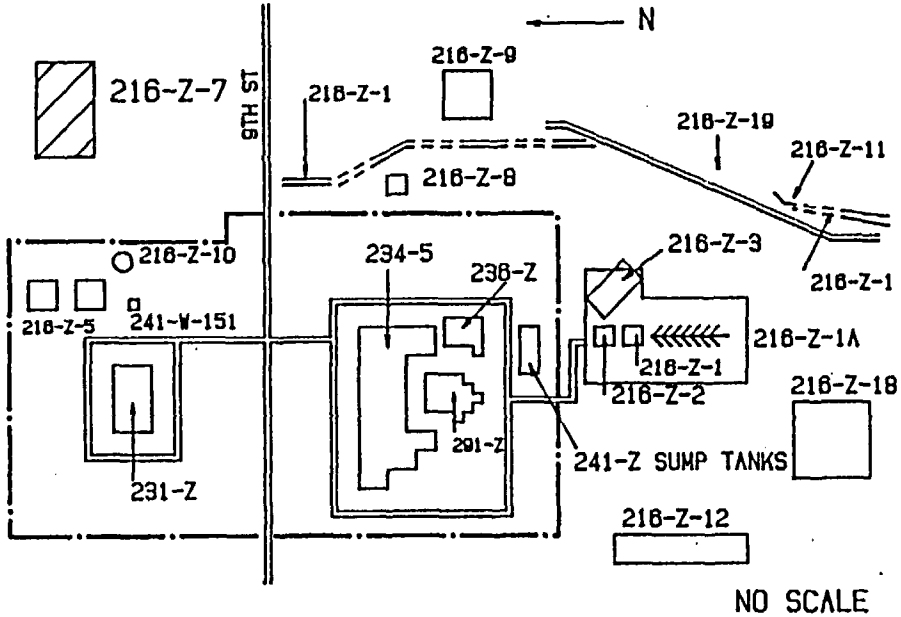
CONT. SOIL VOL.:	460.00 M3
C14:	0.00 CI
CO60:	.01 CI
SR90:	13.20 CI
RU106:	0.00 CI
CS137:	11.60 CI
U:	22700.00 G
PU:	3200.00 G

MATERIALS PRESENTED ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION

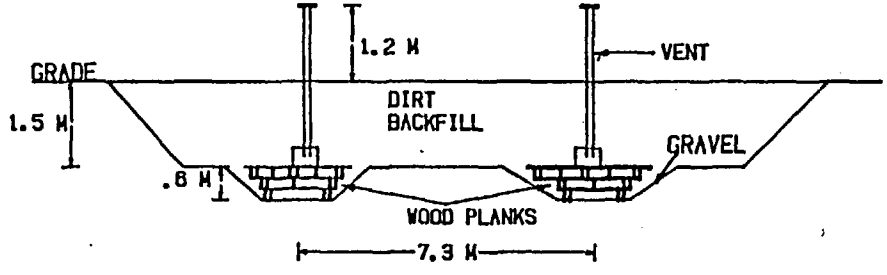
EPA TOUR BOOK
SEC.L, PG. 11

216-Z-7 CRIB

SITE DETAILED DESCRIPTION



NO SCALE



216-Z-7
TRANSVERSE SECTION

DESCRIPTION: TWO WOODEN CRIBS, BOTH WITH 50' BOTTOM LENGTHS PLACED IN AN EXCAVATION WITH BOTTOM DIMENSIONS OF 210' X 44',CURRENTLY RETIRED,IN SERVICE FROM 1947 TO 1967. THE SITE RECEIVED PROCESS AND LAB WASTE FROM 231-Z BLDG. VIA 231-W-151 SUMP TANK AND 300 AREA LAB WASTE FROM 340 BLDG. POSSIBLE GROUNDWATER.

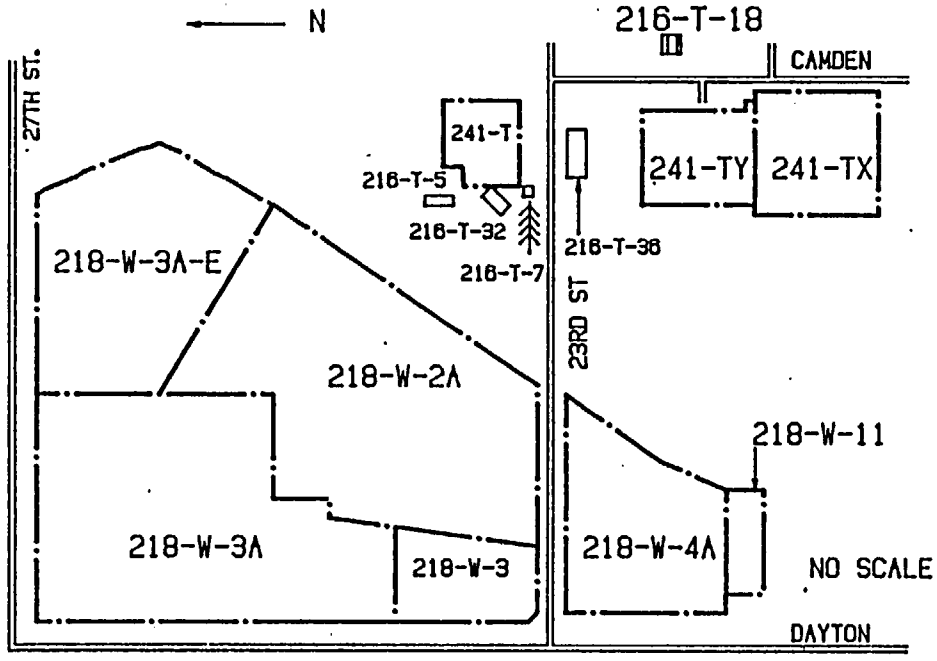
CONT. SOIL VOL.:	590.00 M3
C14:	0.00 CI
CO60:	.11 CI
SR90:	246.00 CI
RU106:	1.08E-03 CI
CS137:	246.00 CI
U:	4500.00 G
PU:	2000.00 G

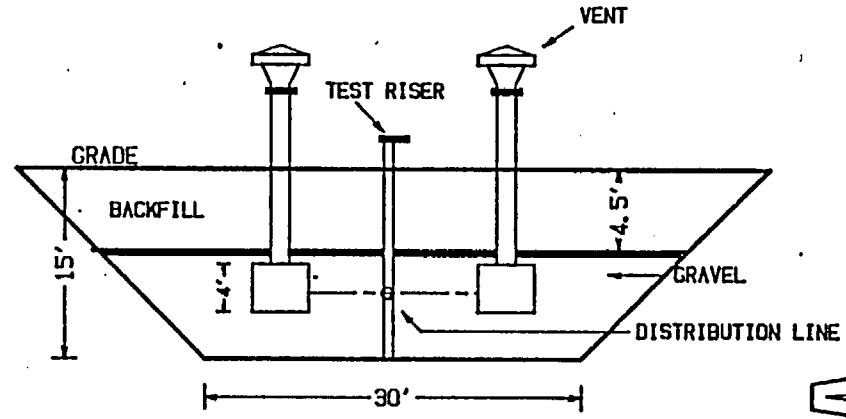
MATERIALS PRESENTED ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION

EPA TOUR BOOK
SEC.L, PG. 12

PRELIMINARY DATA

216-T-18 CRIB — SITE DETAILED DESCRIPTION





216-T-18
TRANSVERSE SECTION

PRELIMINARY DATA

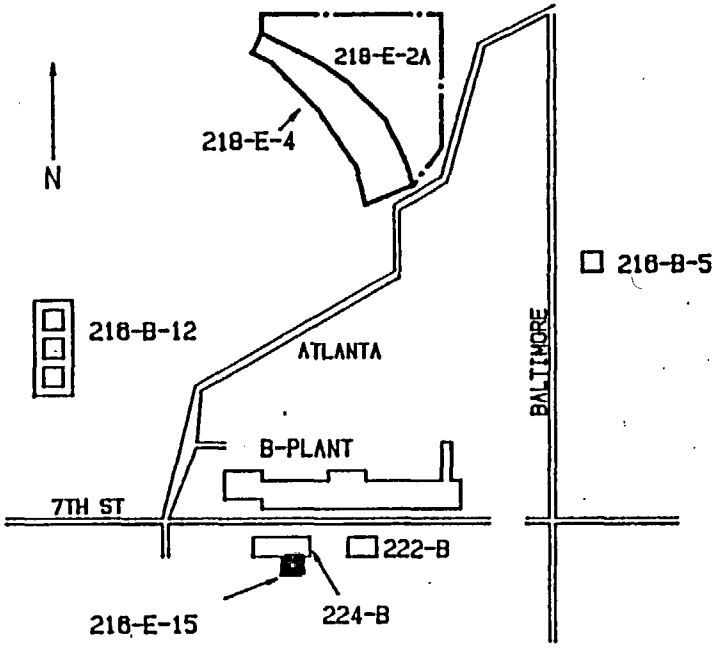
DESCRIPTION: CRIB, COMPOSED OF FOUR 48" DIAMETER 4' LONG CONCRETE SEWER PIPES PLACED IN A 30' X 30' EXCAVATION, CURRENTLY RETIRED, IN SERVICE FROM 2/53 TO 2/53. THE SITE FIRST CYCLE SCAVENGED TBP SUPERNATANT WASTE FROM THE 221-T BLDG. BREAKTHROUGH TO GROUNDWATER HAS NOT OCCURRED.

CONT. SOIL VOL.:	590.00 M3
C14:	0.00 CI
C060:	.20 CI
SR90:	3.39 CI
RU106:	0.00 CI
CS137:	28.90 CI
U:	27200.00 G
PU:	1800.00 G

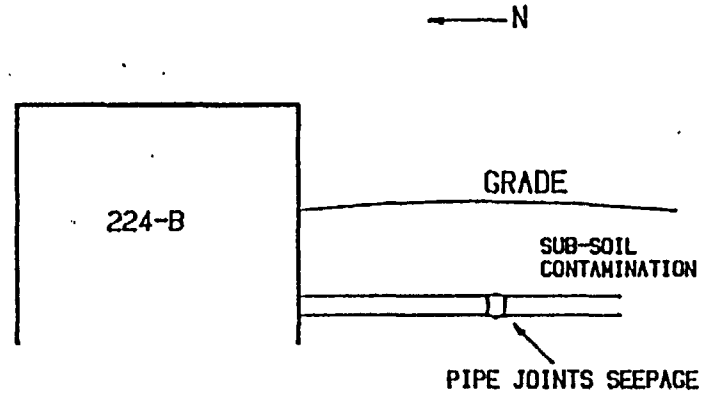
MATERIALS PRESENTED ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION

EPA TOUR BOOK
SEC.L, PG. 13

UN-216-E-15 SITE DETAILED DESCRIPTION
UNPLANNED



NO SCALE



216-E-15
UNPLANNED RELEASE

PRELIMINARY DATA

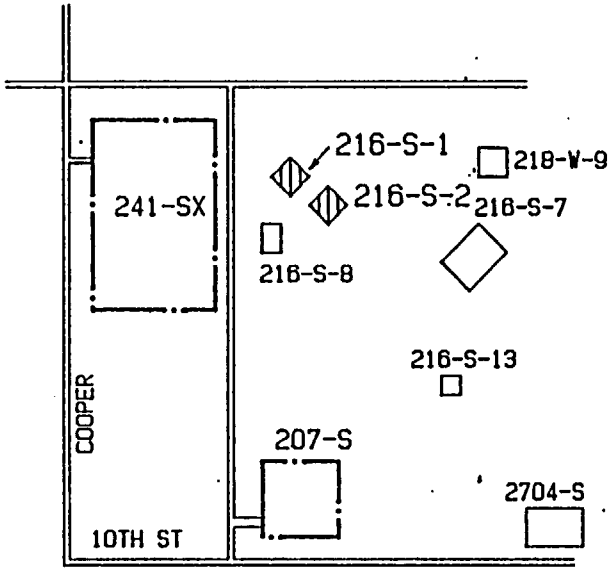
DESCRIPTION: UNPLANNED RELEASE CURRENTLY POSTED AS UNDERGROUND RADIOACTIVE MATERIAL ZONE, OCCURRED DURING THE YEARS 1945 TO 1953. THE SITE CONSISTS OF GROUND CONTAMINATION ON THE SOUTH SIDE OF 224-B BLDG. DUE TO ALPHA-LADEN MOISTURE SEEPAGE THROUGH UNDERGROUND PIPE JOINTS.

CONT. SOIL VOL.:	260.00 M3
C14:	0.00 CI
CO60:	0.00 CI
SR90:	0.00 CI
RU106:	0.00 CI
CS137:	0.00 CI
U:	0.00 G
PU:	1200.00 G

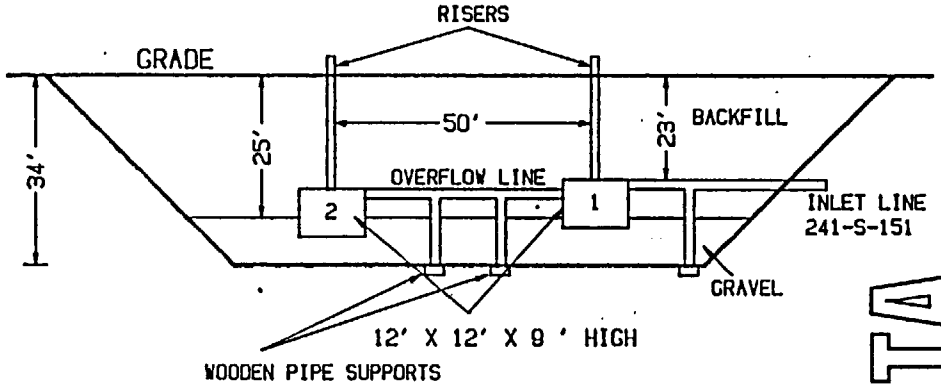
MATERIALS PRESENTED ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION

EPA TOUR BOOK
SEC.L, PG. 14

216-S-1&2 CRIB — SITE DETAILED DESCRIPTION



NO SCALE



216-S-1 & 2
LONGITUDINAL SECTION

PRELIMINARY DATA

DESCRIPTION: TWO WOODEN CRIBS PLACED IN AN EXCAVATION WITH BOTTOM DIMENSIONS OF 90' X 40', CURRENTLY RETIRED, IN SERVICE FROM 1952 TO 1956. SITE RECEIVED CELL DRAINAGE AND CONDENSATE FROM RECEIVER TANKS IN 202-S BLDG. BREAKTHROUGH TO GROUNDWATER MAY HAVE OCCURRED.

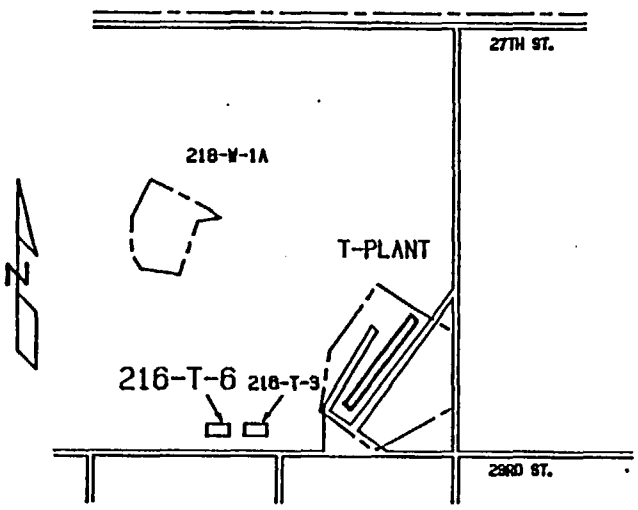
CONT. SOIL VOL.:	1700.00 M3
C14:	0.00 CI
CO60:	.25 CI
SR90:	1510.00 CI
RU106:	1.00E-05 CI
CS137:	1310.00 CI
U:	2270000.00 G
PU:	1200.00 G

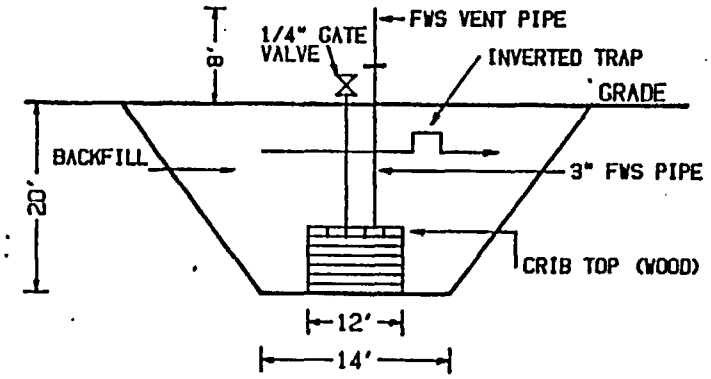
MATERIALS PRESENTED ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION

EPA TOUR BOOK
SEC.L, PG. 15

216-T-6 CRIB

SITE DETAILED DESCRIPTION





216-T-6
TRANSVERSE SECTION

NO SCALE

DESCRIPTION: TWO WOODEN CRIBS, CURRENTLY RETIRED, IN SERVICE FROM 1946 TO 1951. THE SITE RECEIVED CELL DRAINAGE AND MISCELLANEOUS WASTES FROM 221-T AND 224-T BLDGS. VIA 241-T-361 SETTLING TANK. BREAKTHROUGH TO GROUNDWATER HAS NOT OCCURRED.

CONT. SOIL VOL.:	290.00 M3
C14:	0.00 CI
C060:	.04 CI
SR90:	150.00 CI
RU106:	0.00 CI
CS137:	132.00 CI
U:	22700.00 G
PU:	390.00 G

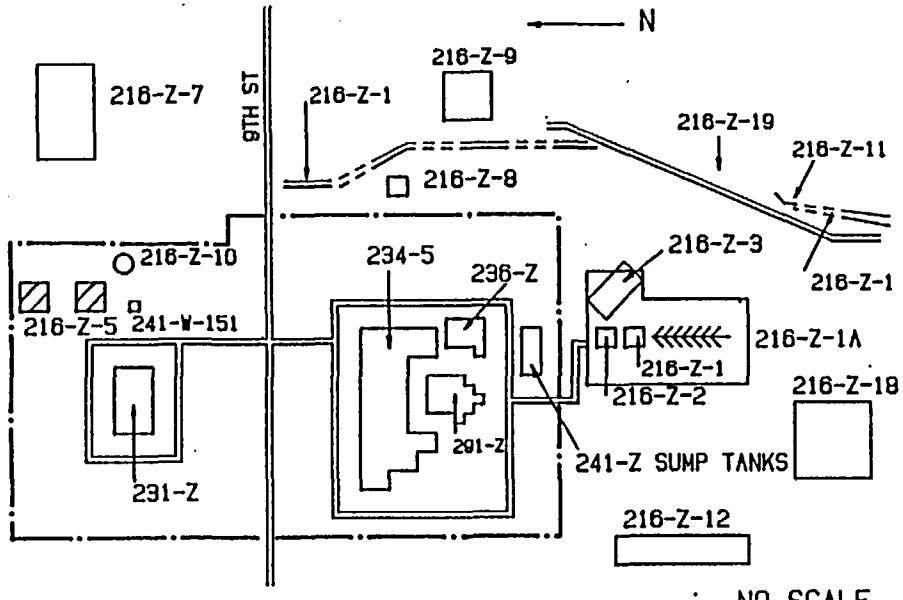
PRELIMINARY DATA

MATERIALS PRESENTED ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION

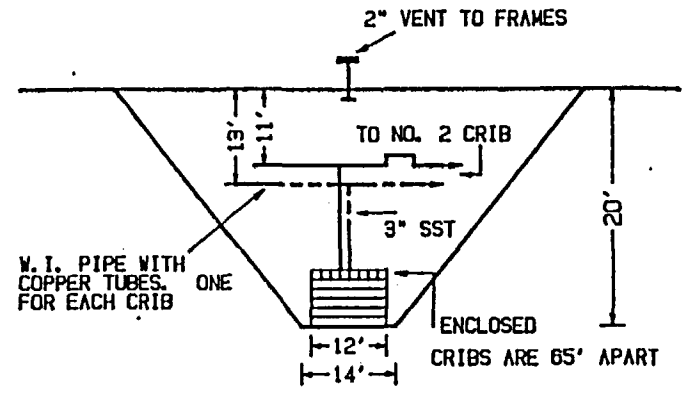
EPA TOUR BOOK
SEC.L, PG. 16

216-Z-5 CRIB

SITE DETAILED DESCRIPTION



NO SCALE



216-Z-5 (1 CRIB)
LONGITUDINAL SECTION

PRELIMINARY DATA

DESCRIPTION: TWO WOODEN CRIBS PLACED IN A 4' SQ. EXCAVATION, CURRENTLY RETIRED, IN SERVICE FROM 1945 TO 1947. THE SITE RECEIVED PROCESS WASTE FROM 231-Z BLDG. VIA THE 241-W-151 SUMP TANK. DOWNWARD MIGRATION-110', BUT BASED ON DEFINITION (10% TABLE II, RHO-MA-139) AND INVENTORY, NO BREAKTHROUGH IS CLAIMED.

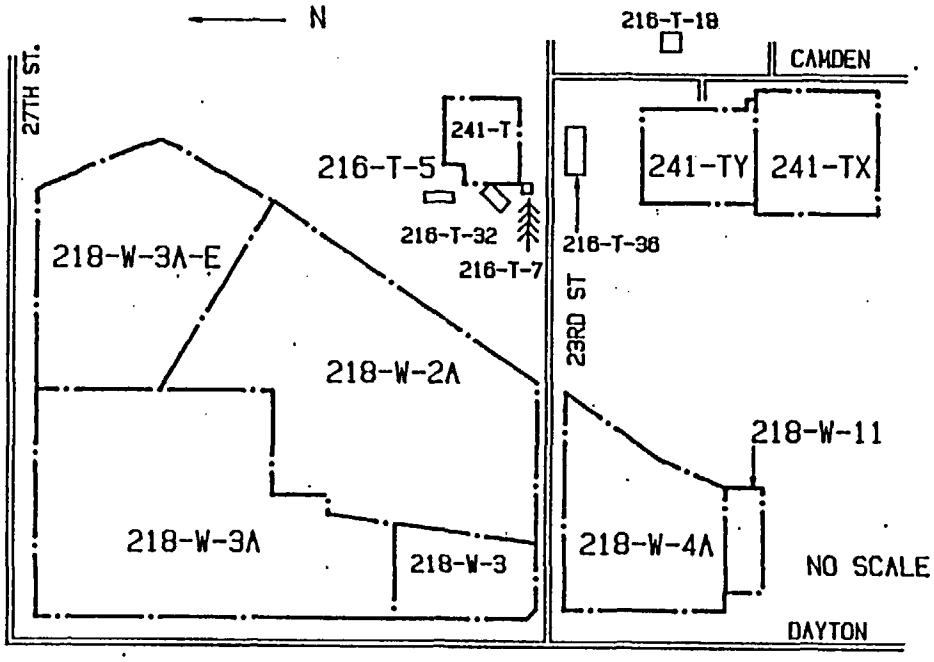
CONT. SOIL VOL.:	210.00 M3
C14:	0.00 CI
CO60:	3.86E-03 CI
SR90:	2.02 CI
RU106:	0.00 CI
CS137:	4.30 CI
U:	50.00 G
PU:	340.00 G

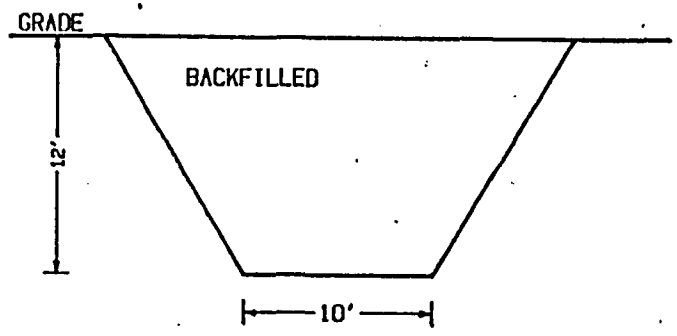
MATERIALS PRESENTED ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION

EPA TOUR BOOK
SEC.L, PG. 17

216-T-5 TRENCH

SITE DETAILED DESCRIPTION





216-T-5
CROSS SECTION

PRELIMINARY DATA

DESCRIPTION: TRENCH, 50' LONG, CURRENTLY RETIRED, IN SERVICE FROM 5/55 TO 5/55. THE SITE RECEIVED SECOND CYCLE SUPERNATANT WASTE FROM 221-T BLDG. VIA 112-T TANK IN THE 241-T TANK FARM. BREAKTHROUGH TO GROUNDWATER HAS NOT OCCURRED.

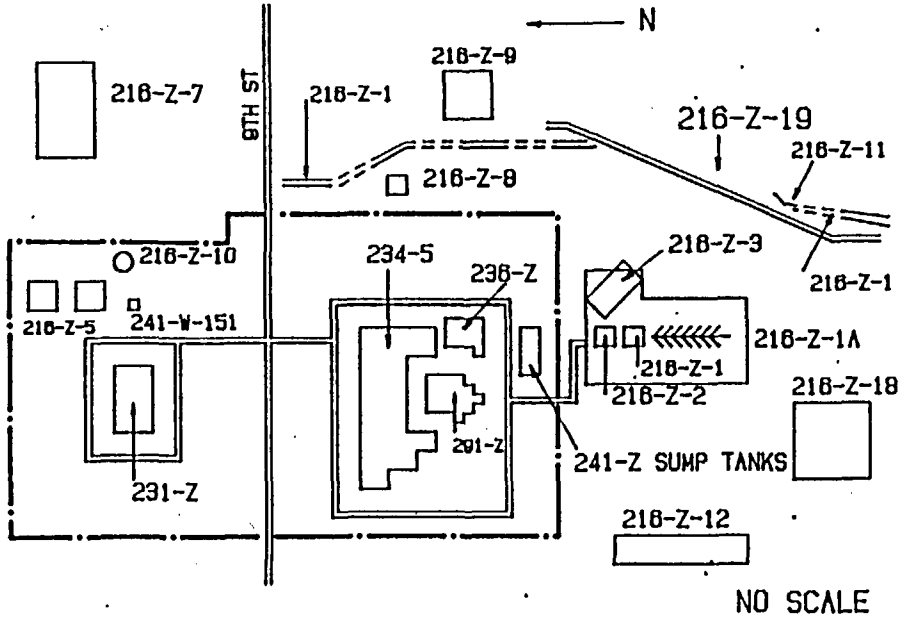
CONT. SOIL VOL.:	44.00 M3
C14:	0.00 CI
C060:	.13 CI
SR90:	.51 CI
RU106:	0.00 CI
CS137:	37.20 CI
U:	4540.00 G
PU:	180.00 G

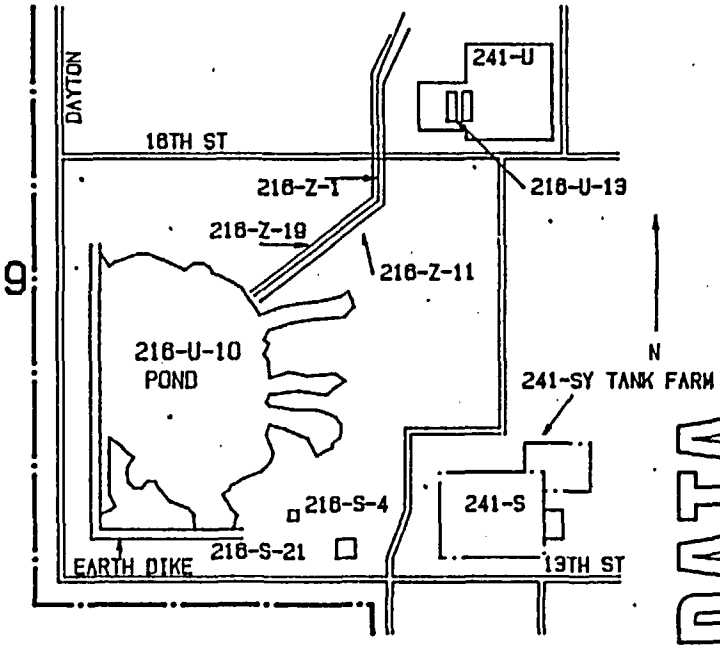
MATERIALS PRESENTED ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION

EPA TOUR BOOK
SEC.L, PG. 18

216-Z-19 DITCH

SITE DETAILED DESCRIPTION





DESCRIPTION: DITCH, 2675' LONG, CURRENTLY RETIRED, IN SERVICE FROM 1971 TO 1981. THE SITE RECEIVED PROCESS COOLING WATER AND STEAM CONDENSATE FROM 234-5Z BLDG., VACUUM PUMP SEAL WATER AND COOLING WATER FROM 291-Z AND 231-Z BLDGS. CONCRETE HEADWALLS WHERE DITCH PASSES UNDER 16TH STREET.

CONT. SOIL VOL.:	540.00 M3
C14:	0.00 CI
C060:	.13 CI
SR90:	2.63 CI
RU106:	1.00E-03 CI
CS137:	2.34 CI
U:	47000.00 G
PU:	140.00 G

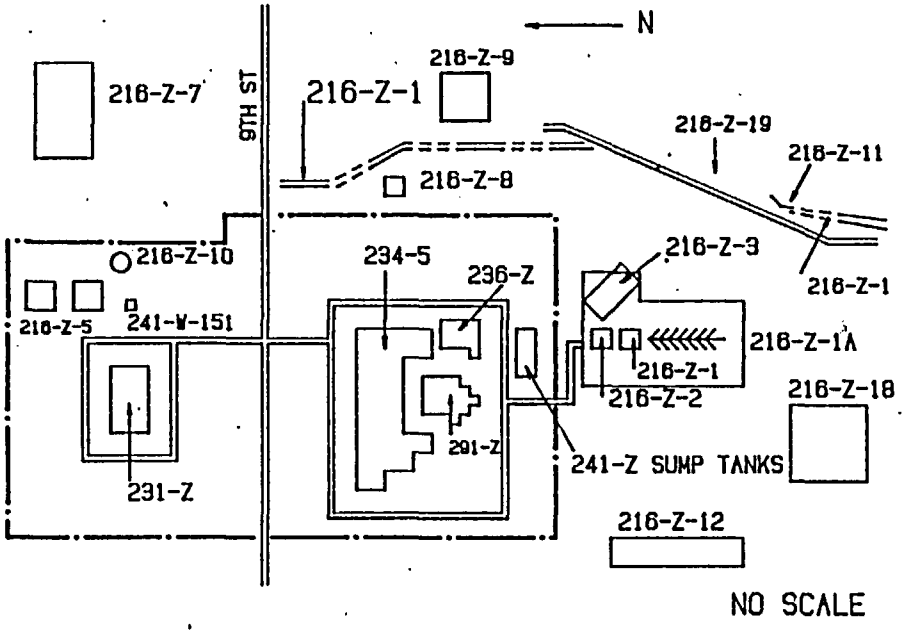
MATERIALS PRESENTED ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION

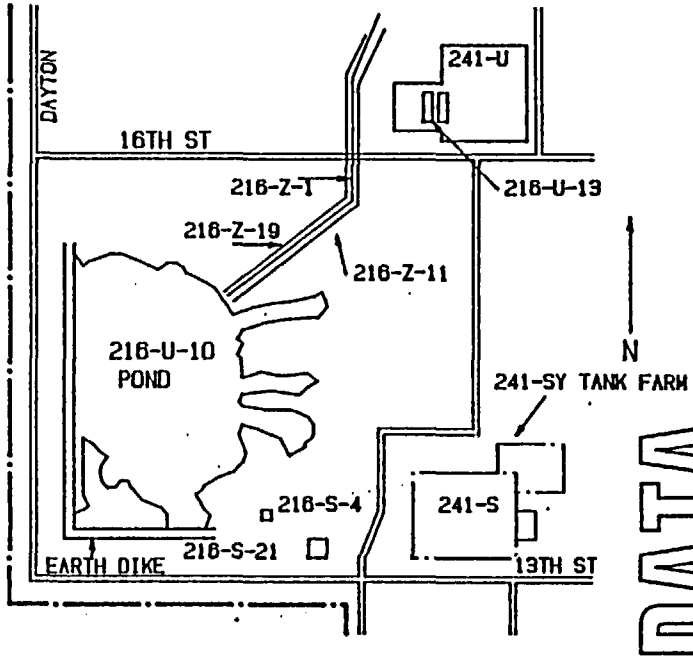
EPA TOUR BOOK
SEC.L, PG. 19

PRELIMINARY DATA

216-Z-1 DITCH

SITE DETAILED DESCRIPTION





216-Z-1
PLAN

PRELIMINARY DATA

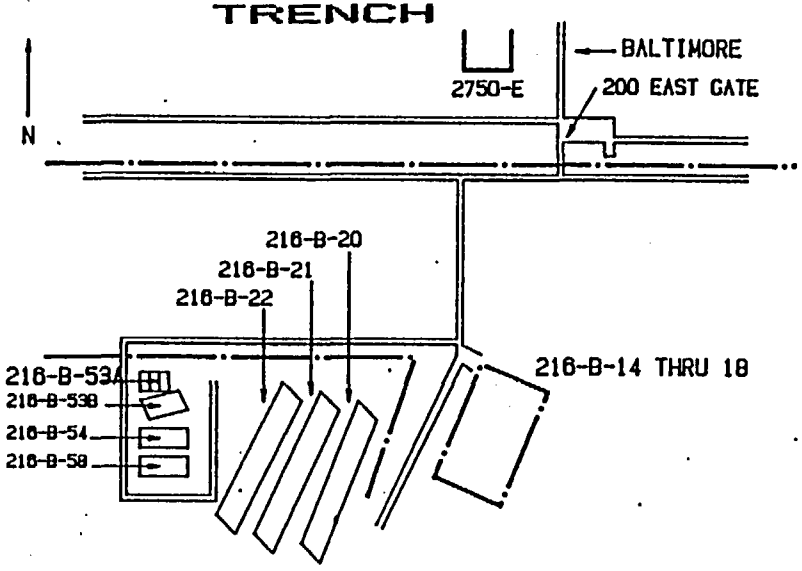
DESCRIPTION: DITCH,4250' LONG, CURRENTLY RETIRED, IN SERVICE FROM 1944 TO 1959. THE SITE RECEIVED PROCESS COOLING WATER, STEAM CONDENSATE, AND LAB WASTES FROM 231-Z AND 234-5Z BLDGS. AND VACUUM PUMP SEAL WATER FROM 291-Z BLDG.

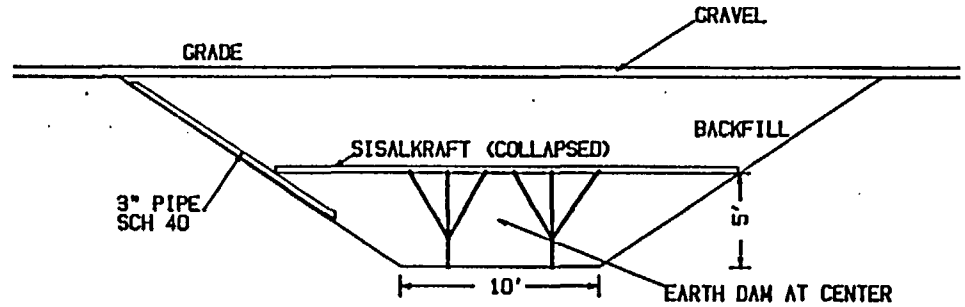
CONT. SOIL VOL.:	450.00 M3
C14:	0.00 CI
CO60:	1.30 CI
SR90:	2.63 CI
RU106:	1.00E-03 CI
CS137:	234.00 CI
U:	47000.00 G
PU:	130.00 G

MATERIALS PRESENTED ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION

EPA TOUR BOOK
SEC.L, PG. 20

216-B-53A TRENCH SITE DETAILED DESCRIPTION





TRANSVERSE SECTION

NO SCALE

216-B-53A

PRELIMINARY DATA

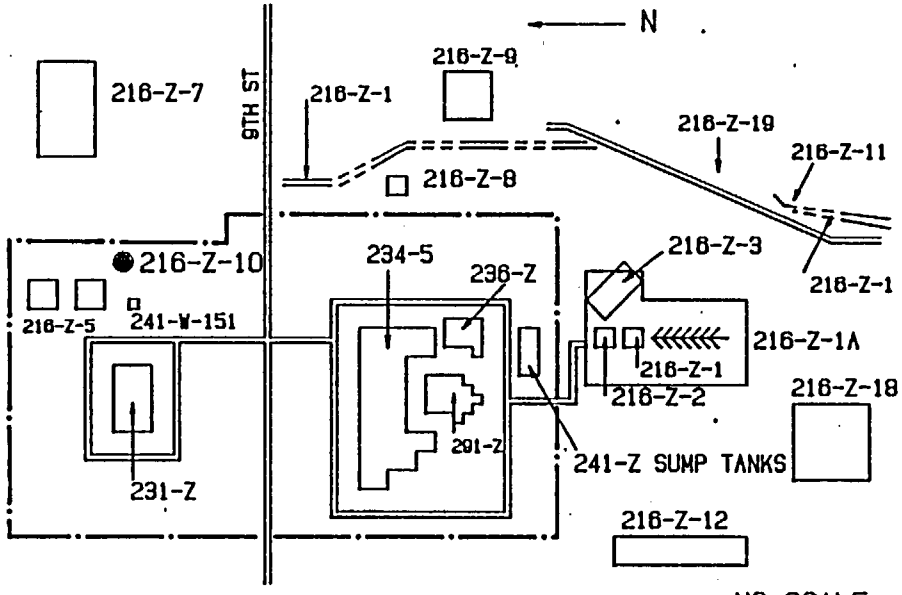
DESCRIPTION: TRENCH, 607' LONG, CURRENTLY RETIRED, IN SERVICE FROM 10/65 TO 11/65. THE SITE RECEIVED WASTE FROM 300 AREA HANFORD LABORATORIES.

CONT. SOIL VOL.:	24.00 M3
C14:	0.00 CI
CO60:	.05 CI
SR90:	.06 CI
RU106:	3.00E-05 CI
CS137:	.07 CI
U:	22700.00 G
PU:	100.00 G

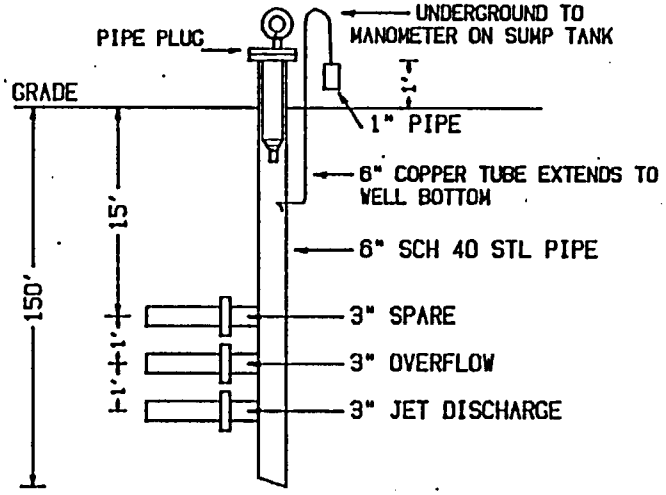
MATERIALS PRESENTED ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION

EPA TOUR BOOK
SEC.L, PG. 21

216-Z-10 REVERSE WELL SITE DETAILED DESCRIPTION



NO SCALE



216-Z-10
CROSS SECTION

PRELIMINARY DATA

DESCRIPTION: REVERSE WELL, 150 FT LONG, CURRENTLY RETIRED, IN SERVICE FROM 2/45 TO 6/45. THE SITE RECEIVED PROCESS AND LAB WASTE FROM 231-Z BLDG. VIA SUMP TANK 241-W-151.

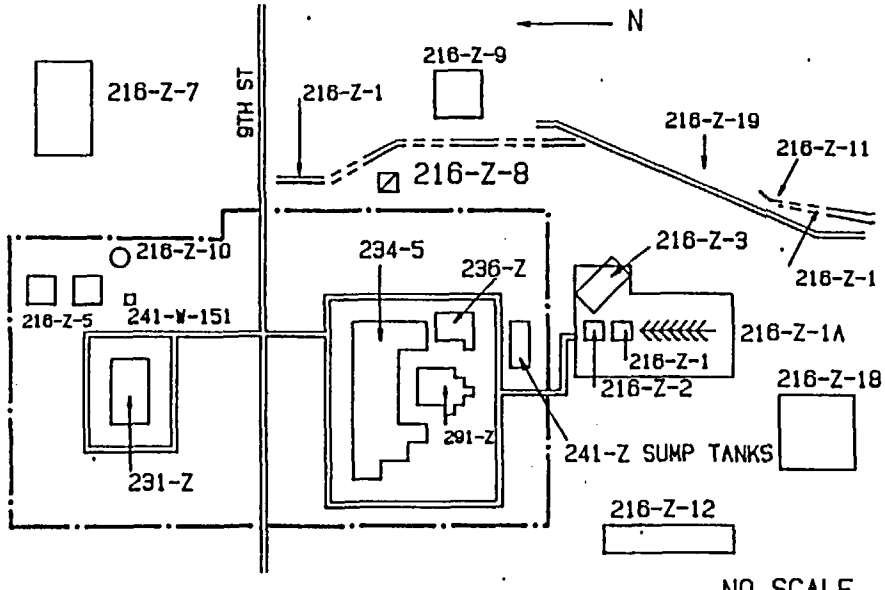
CONT. SOIL VOL.:	.17 M3
C14:	0.00 CI
C060:	0.00 CI
SR90:	0.00 CI
RU106:	0.00 CI
CS137:	0.00 CI
U:	0.00 G
PU:	50.00 G

MATERIALS PRESENTED ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION

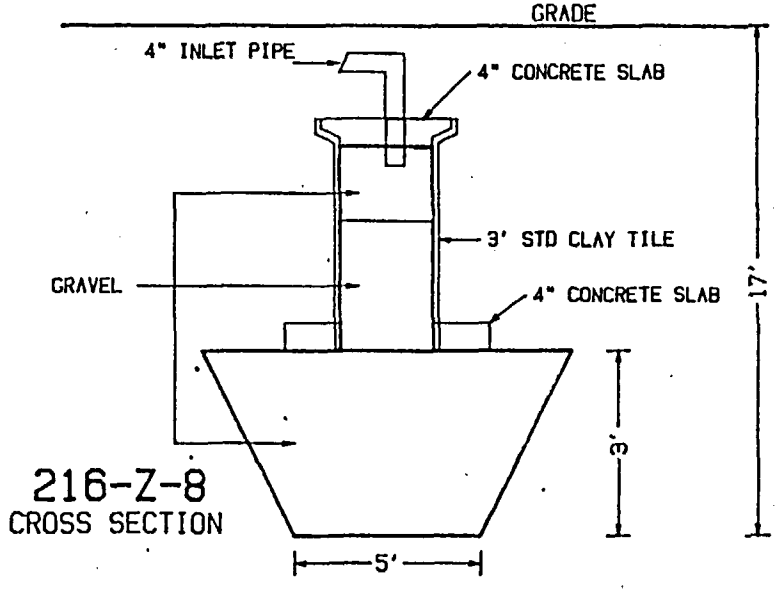
EPA TOUR BOOK
SEC.L, PG. 22

216-Z-8 FRENCH DRAIN

SITE DETAILED DESCRIPTION



NO SCALE



216-Z-8
CROSS SECTION

DESCRIPTION: FRENCH DRAIN COMPOSED OF TWO 3' CULVERTS, CURRENTLY RETIRED, SERVICE FROM 1955 TO 1962. THE SITE RECEIVED FILTER BACKWASH FROM RECUPLEX FACILITY IN THE 234-5Z BLDG. VIA THE OVERFLOW FROM THE STORAGE TANK.

CONT. SOIL VOL.:	5.80 M3
C14:	0.00 CI
C060:	0.00 CI
SR90:	0.00 CI
RU106:	0.00 CI
CS137:	0.00 CI
U:	0.00 G
PU:	48.40 G

PRELIMINARY DATA

MATERIALS PRESENTED ARE FIRST ORDER APPROXIMATIONS AND REQUIRE VALIDATION

EPA TOUR BOOK
SEC.L, PG. 23

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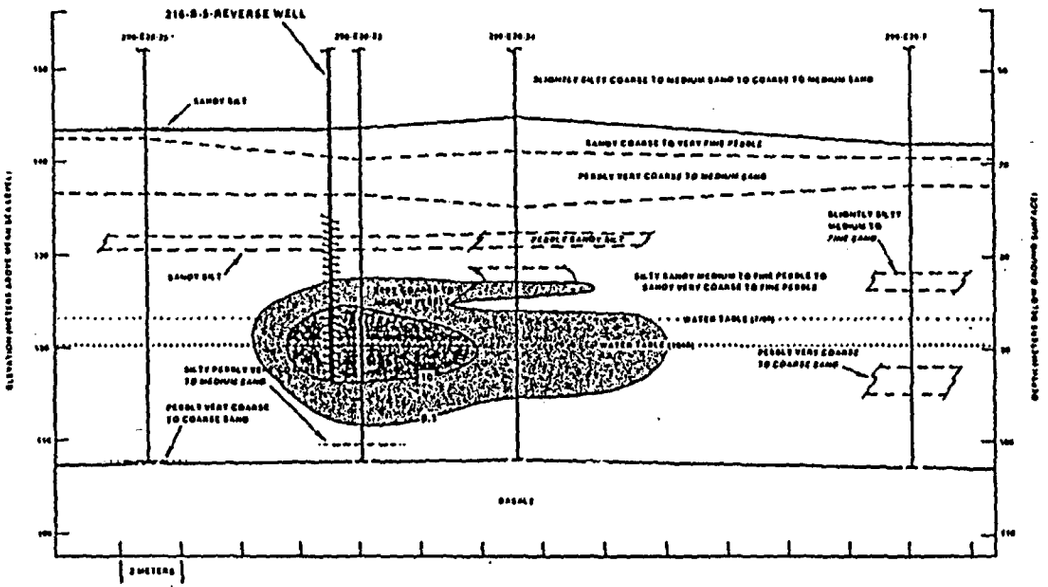
216-B-5 Reverse Well

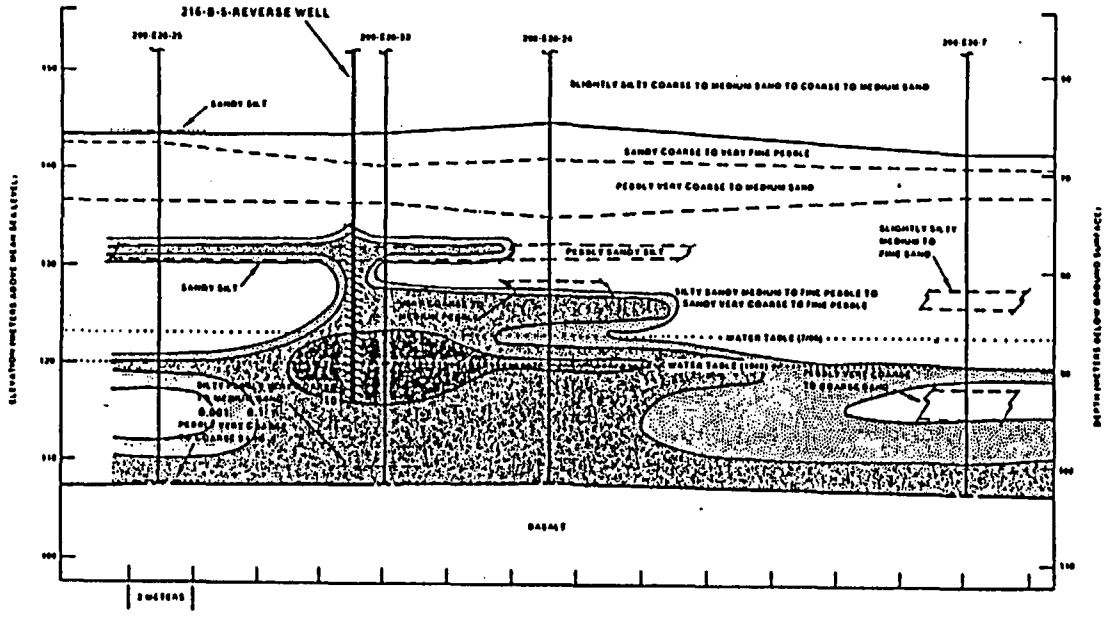
Geologic Cross Section



Sr90 Distribution
(nCi/g)

216-B-5 Reverse Well

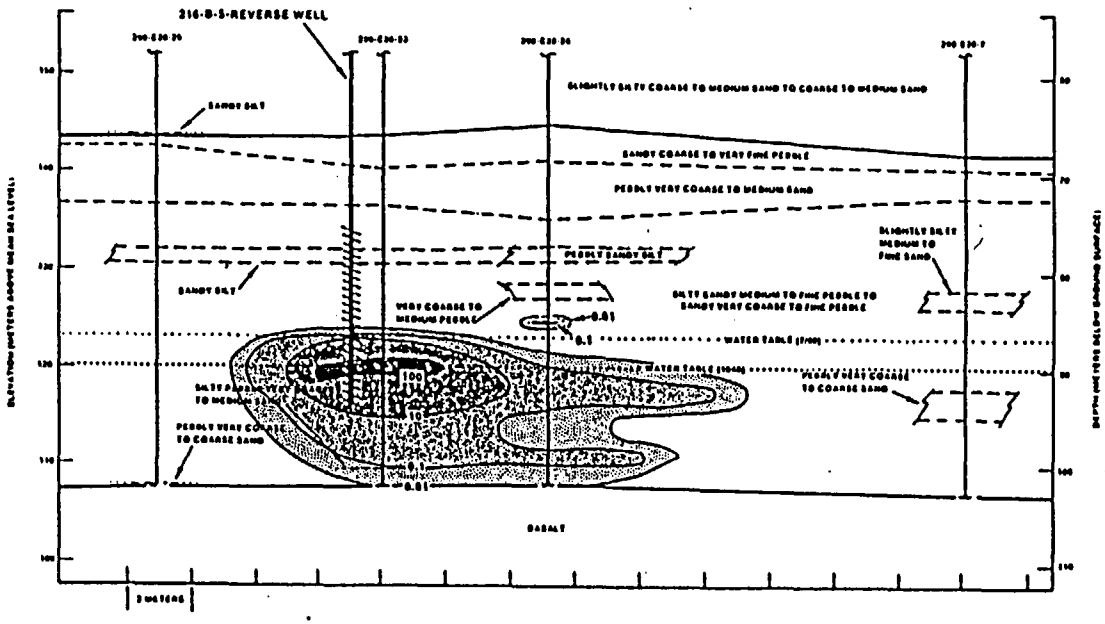
Geologic Cross Section



Cs137 Distribution
Beneath the Cribs
(nCi/g)

216-B-5 Reverse Well

Geologic Cross Section

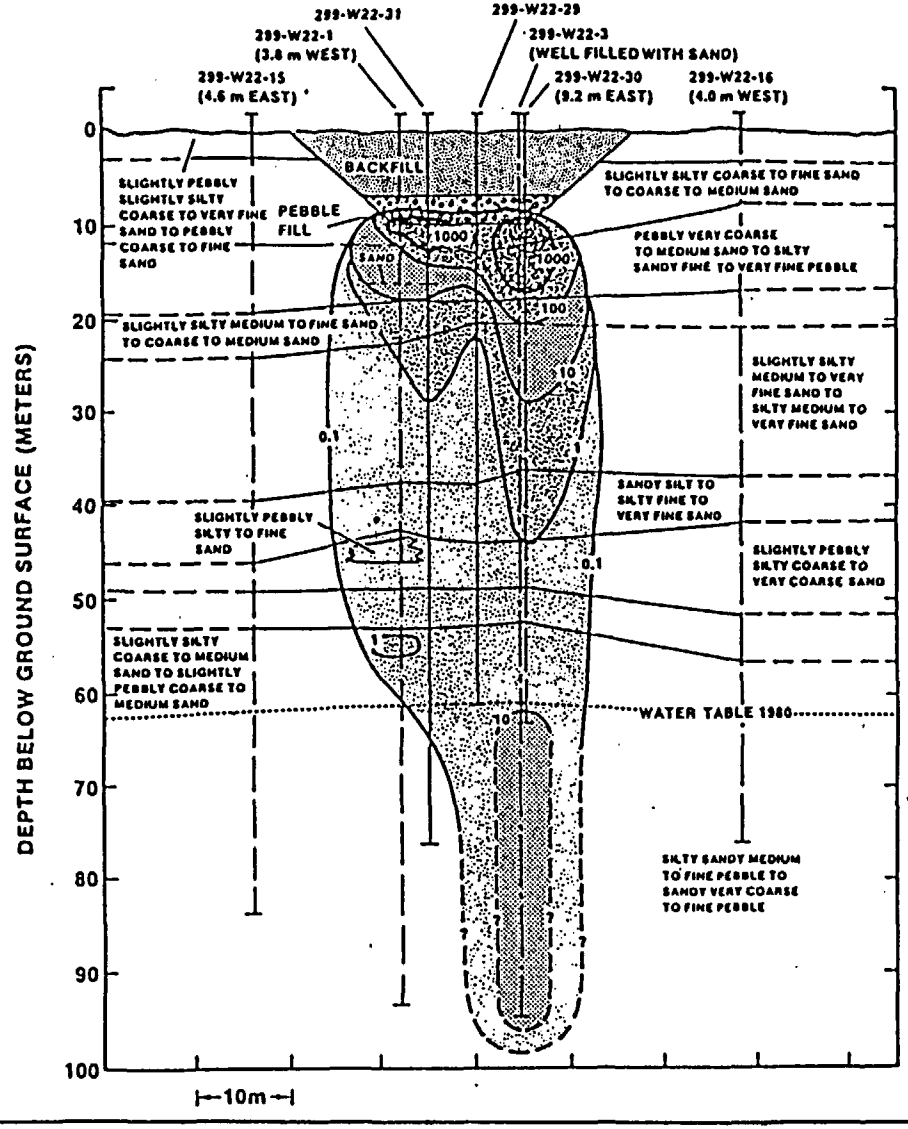


Pu239-240 Distribution
(nCi/g)

216-S-1 Crib
216-S-2 Crib

Geologic Cross Section

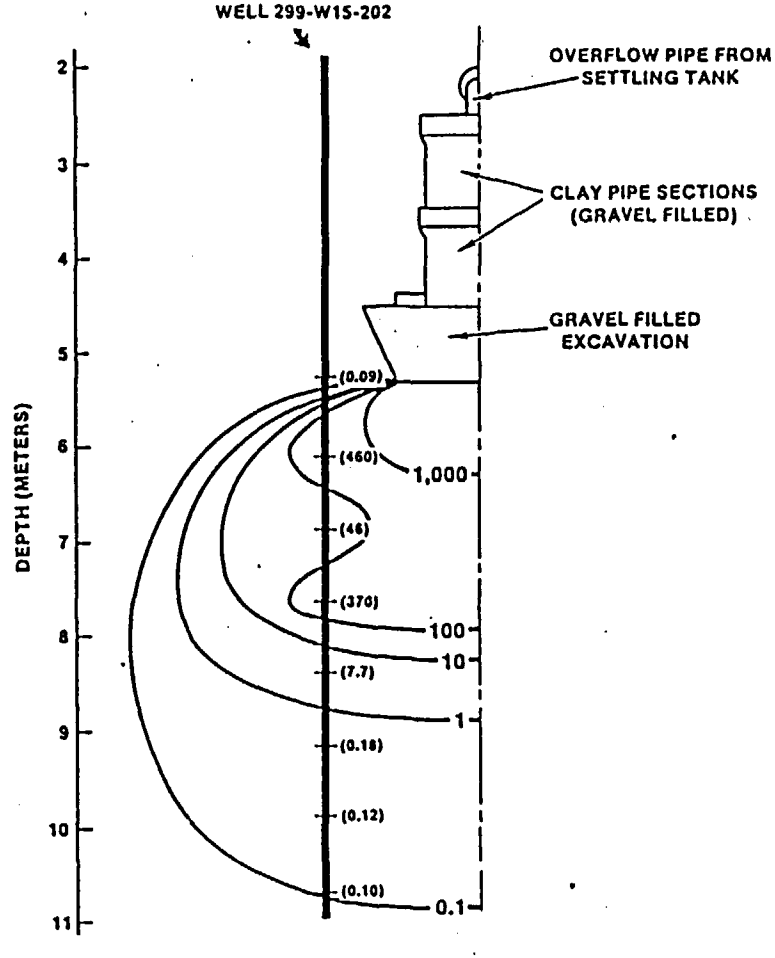
Cs137 Distribution (nCi/g)
Beneath the Cribs



216-Z-8 French Drain

Geologic Cross Section

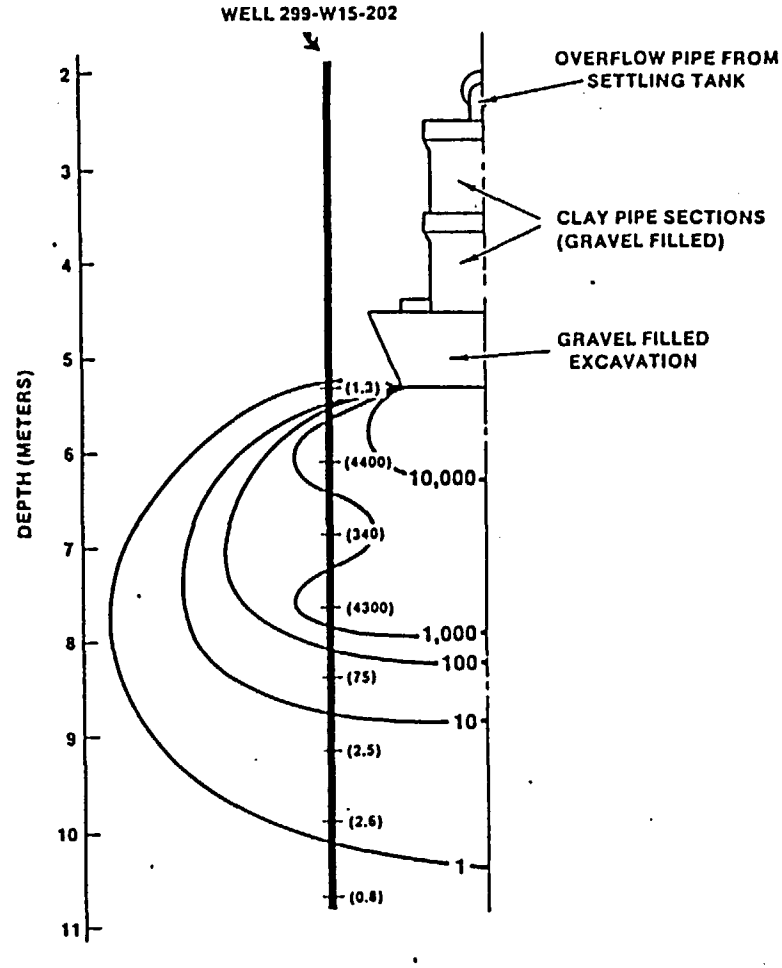
Am 241 Concentrations (pCi/g)
Beneath the French Drain



216-Z-8 French Drain

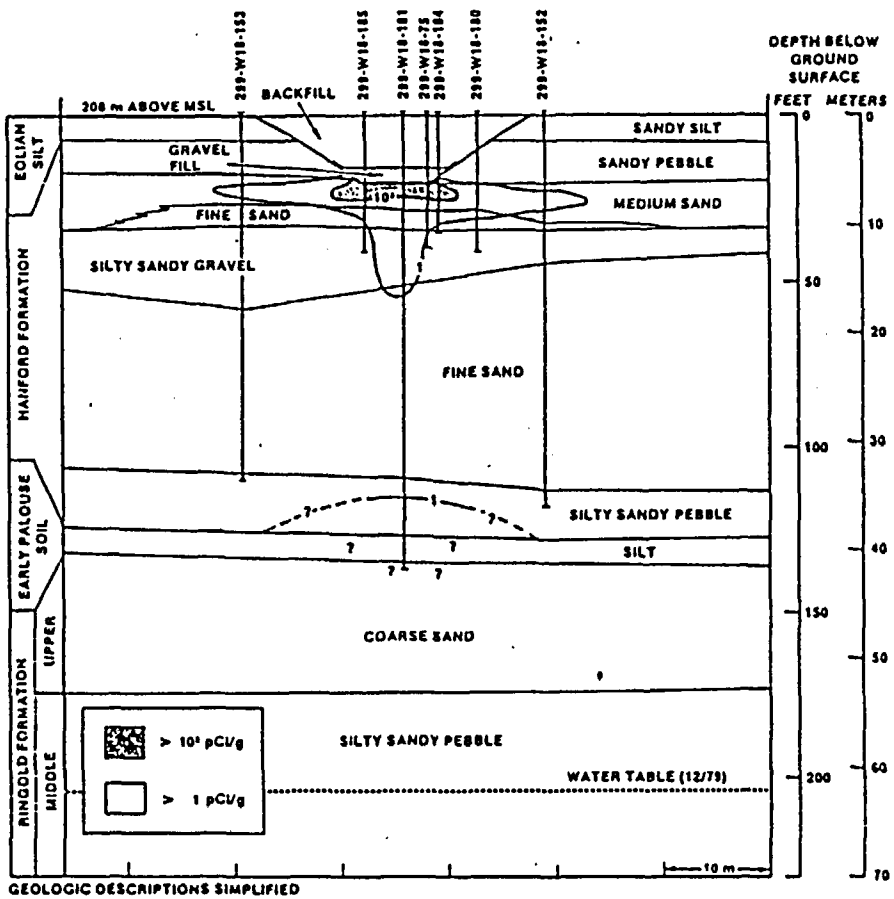
Geologic Cross Section

Pu 239 Concentrations (pCi/g)
Beneath the French Drain



216-Z-12 Crib

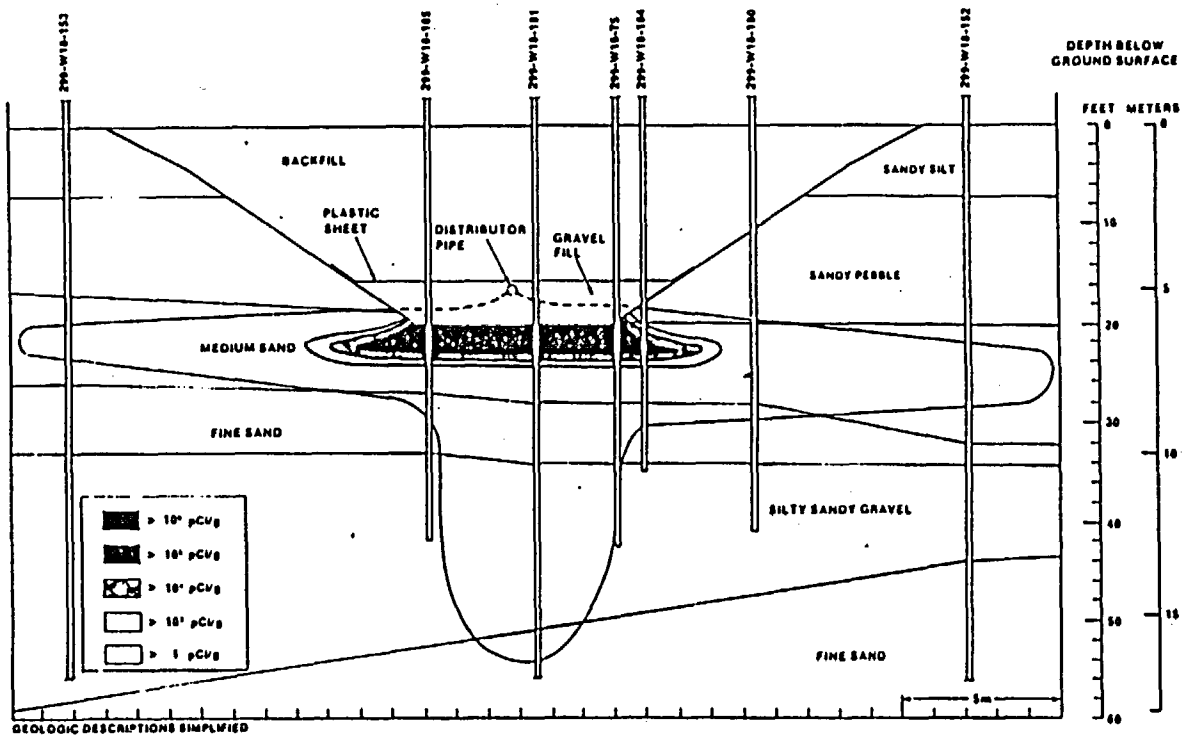
Geologic Cross Section



Cs137 Distribution
(nCi/g)

216-Z-12 Crib

Geologic Cross Section



Plutonium Activity Distribution Detail Immediately Beneath Crib
(pCi/g)

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SECTION M - ENGINEERED BARRIER TEST

ENGINEERED BARRIER TEST

ENGINEERED BARRIER TEST FACILITY

PERFORMANCE MONITORING IS DIRECTED AT UNDERSTANDING THE INTERACTIONS BETWEEN THE ENGINEERED BARRIER AND THE NATURAL PROCESSES AND FORCES WHICH TEND TO ENCROACH, DEGRADE AND PENETRATE THE BARRIER

BIOTIC ENCROACHMENT	- INVESTIGATE SPECIES POPULATION DYNAMICS BARRIER VACINITY
BIOTIC INTRUSION	- DETECTION OF PLANT AND ANIMAL BARRIER PENETRATION
EROSION/DEPOSITION	- INVESTIGATE MATERIAL TRANSFER PROCESSES ON BARRIERS
WATER MOVEMENT	- INVESTIGATE MOISTURE MOVEMENT THROUGH BARRIERS

ENGINEERED BARRIER TEST

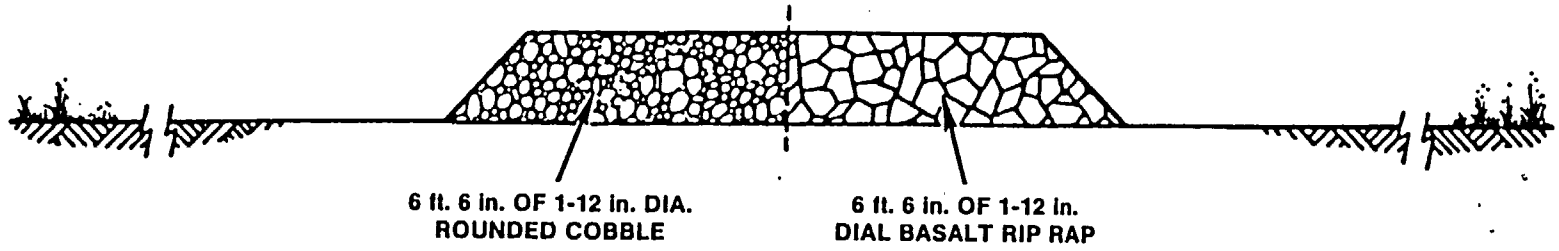
OBJECTIVE AND SCOPE

OBJECTIVE: TO PROVIDE TECHNICAL SUPPORT FOR THE DESIGN, CONSTRUCTION, AND PERFORMANCE ASSESSMENT OF BARRIERS CONSIDERED FOR USE IN PROPOSED IN SITU DISPOSAL, IN-PLACE STABILIZATION, AND NEW SITE CLOSURE DEMONSTRATIONS

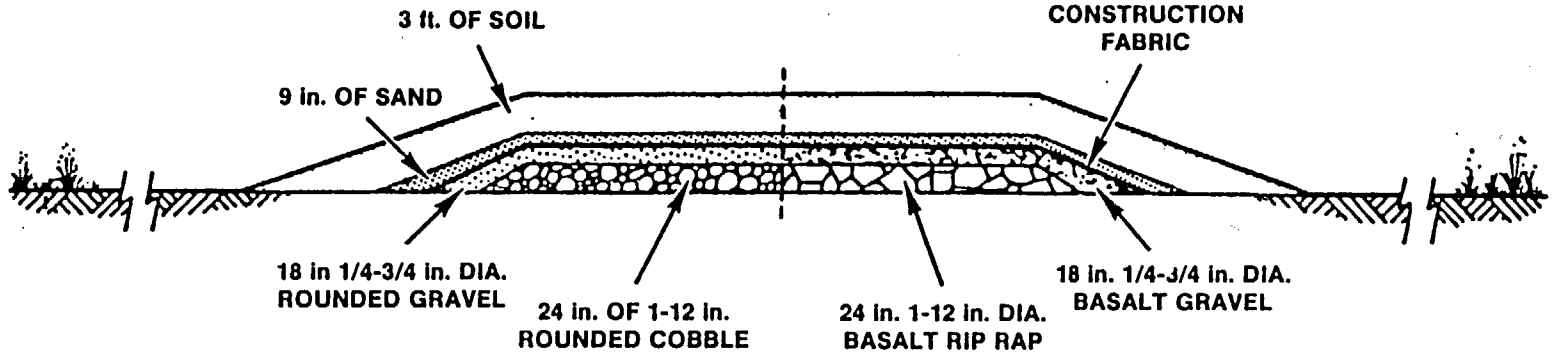
- SELECT, DESIGN, AND INSTALL 3 BARRIERS
- PLAN AND IMPLEMENT A PROGRAM TO MONITOR BARRIER PERFORMANCE
- UTILIZE DATA TO SUPPORT SIMULATIVE AND PREDICTIVE MODELING OF LONG-TERM BARRIER PERFORMANCE
- EVALUATE INDIVIDUAL BARRIER DESIGNS AND COMPARE ALTERNATIVE BARRIER TYPES
- IDENTIFY DESIGN, CONSTRUCTABILITY AND PERFORMANCE CONSIDERATIONS CRITICAL TO BARRIER OPTIMIZATION IN FUTURE APPLICATIONS

ENGINEERED BARRIER TEST

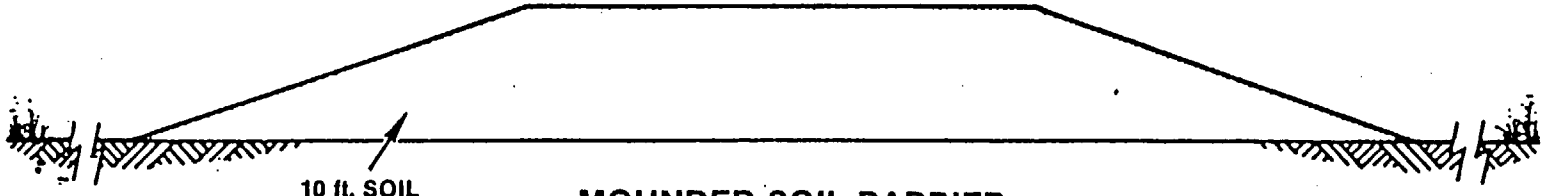
BARRIER CROSS SECTIONS



MOUNDED ROCK BARRIER



MOUNDED MULTILAYER BARRIER



MOUNDED SOIL BARRIER

DOE-RL

HANFORD DEFENSE WASTE DISPOSAL PROGRAM

EPA STAFF SITE VISIT