U.S. Department of Energy
Office of River Protection
P.O. Box 450, MSIN H6-60
Richland, Washington 99352

0078779

SEP 25 2008

08-ESQ-223

Mr. Jane A. Hedges, Program Manager
Nuclear Waste Program
State of Washington
Department of Ecology
3100 Port of Benton Blvd.
Richland, Washington 99354

RECEIVED
SEP 26 2008
EDMC

Dear Ms. Hedges:

SUBMITTAL OF PART A PERMIT APPLICATION FORMS

Reference: WRPS letter from M. Armstead to J. C. Poniatowski, ORP, "Washington River Protection *Solutions* LLC 'Transmittal of Certified Part A Permit Applications,'" 29633-000111-ESQ-LT, dated September 10, 2008.

This letter transmits the Hanford Facility Resource Conservation and Recovery Act (RCRA) revised Part A permit application forms (Part As') for the Treatment, Storage, and/or Disposal Units. The Part As' are certified by Washington River Protection Solutions (WRPS) as co-operator and recertified by the U.S. Department of Energy (DOE), Office of River Protection (ORP) as owner/operator. ORP would like to request that the Washington State Department of Ecology (Ecology) sign the approval box of the Part A forms. On October 1, 2008, WRPS will operate to the revised Part As'. The attached Part A applications cover the following facilities:

Facility	Revision Number
Double-Shell Tank/204-AR Waste Unloading Station	3
Single-Shell Tank System	10
242-A Evaporator	10
222-S Laboratory	12
Immobilized High-Level Waste (IHLW)/IHLW Interim Storage Unit	2

In accordance with Hanford Facility RCRA Permit Condition I.E.14.a, the revised Part As' documenting the change in co-operators will be submitted as a Class 1 modification for the 242-A Evaporator. We recognize that pursuant to Washington Administrative Code 173-303-830(2)(b), a 90-day notification is normally required to transfer a permit to a new owner or operator. DOE appreciates Ecology's willingness to work with us given the short contract transition periods.

SEP 2 5 2008

In addition, we are also requesting Ecology approval for the "Dangerous Waste and or Mixed Waste Research, Development, and Demonstration (RD&D) Permit" issued for the Demonstration Bulk Vitrification System that will identify WRPS as the Co-Permittee and delete CH2M HILL Hanford Group, Inc. (Attachment 6). The RD&D Permit is a stand alone permit, (i.e., it is not a part of the Hanford Sitewide Permit) and does not have a Part A.

The Part As' were reviewed in advance with your staff and their comments have been dispositioned.

If you have any questions, please contact me, or your staff may contact Gae M. Neath, Environmental Compliance Division, (509) 376-7828.

Sincerely,

Shirley J. Olinger
Manager

ESQ:GMN

Attachments: (6)

cc w/attachs:
S. L. Dahl, Ecology
Administrative Record
Environmental Portal, LMSI

cc w/o attachs:
G. P: Davis, Ecology

Attachment 1
08-ESQ-223

IHLW Interim Storage Unit
Part A of Application for Dangerous Waste Permit

WASHINGTON STATE DEPARTMENT OF ECOLOGY

Dangerous Waste Permit Application Part A Form

Date Received	Reviewed by:	Date:
Month Day Year	Approved by:	Date:

I. This form is submitted to: (place an "X" in the appropriate box)

☐	Request modification to a final status permit (commonly called a "Part B" permit)
☒	Request a change under interim status
☐	Apply for a final status permit. This includes the application for the initial final status permit for a site or for a permit renewal (i.e., a new permit to replace an expiring permit).
☐	Establish interim status because of the wastes newly regulated on: (Date)
	List waste codes:

II. EPA/State ID Number

W A 7 8 9 0 0 0 8 9 6 7

III. Name of Facility

US Department of Energy – Hanford Facility

IV. Facility Location (Physical address not P.O. Box or Route Number)

A. Street

825 Jadwin

City or Town	State	ZIP Code
Richland	WA	99352

County Code (if known)	County Name
0 0 5	Benton

B. Land Type	C. Geographic Location Latitude (degrees, mins, secs)	Longitude (degrees, mins, secs)	D. Facility Existence Date Month Day Year
F	Refer to TOPO Map (Section XV.)		0 3 0 2 1 9 4 3

V. Facility Mailing Address

Street or P.O. Box

P.O. Box 450

City or Town	State	ZIP Code
Richland	WA	99352

VI. Facility contact (Person to be contacted regarding waste activities at facility)		
Name (last)	(first)	
Olinger	Shirley	
Job Title	Phone Number (area code and number)	
Manager	(509) 372-3062	
Contact Address		
Street or P.O. Box		
P.O. Box 450		
City or Town	State	ZIP Code
Richland	WA	99352

VII. Facility Operator Information	
A. Name	Phone Number
Department of Energy Owner/Operator Washington River Protection Solutions, LLC Co-Operator for IHLW Interim Storage Unit*	(509) 372-3062 (509) 372-9138*
Street or P.O. Box	
P.O. Box 450 P.O. Box 850*	

City or Town	State	ZIP Code
Richland	WA	99352

B. Operator Type	F

C. Does the name in VII.A reflect a proposed change in operator?	☐ Yes ☒ No Co-Operator* change
If yes, provide the scheduled date for the change:	Month 10 Day 01 Year 2008

D. Is the name listed in VII.A. also the owner? If yes, skip to Section VIII.C.	☐ Yes ☒ No

VIII. Facility Owner Information	
A. Name	Phone Number (area code and number)
Shirley J Olinger, Operator/Facility-Property Owner	(509) 372-3062
Street or P.O. Box	
P.O. Box 450	

City or Town	State	ZIP Code
Richland	WA	99352

B. Owner Type	F

C. Does the name in VIII.A reflect a proposed change in owner?	☐ Yes ☒ No
If yes, provide the scheduled date for the change:	Month Day Year

IX. NAICS Codes (5/6 digit codes)													
A. First							B. Second						
5	6	2	2	1		Waste Treatment & Disposal	9	2	4	1	1	0	Administration of Air & Water Resource & Solid Waste Management Programs
C. Third							D. Fourth						
5	4	1	7	1		Research & Development in the Physical, Engineering, & Life Sciences							

X. Other Environmental Permits (see instructions)

A. Permit Type	B. Permit Number	C. Description

XI. Nature of Business (provide a brief description that includes both dangerous waste and non-dangerous waste areas and activities)

The Immobilized High-Level Waste (IHLW) Interim Storage Unit will be located in the Canister Storage Building (CSB) (212-H Building) in the 200 East Area of the Hanford Facility. The IHLW storage process is scheduled to begin operations in parallel with the start of operations for the Waste Treatment and Immobilization Plant.

S01

The interim storage unit will store canisters of vitrified mixed immobilized high-level waste from the treatment of Hanford Facility tank system waste. The IHLW vitrified waste will be stored in vaults 2 and 3 of the CSB. Each vault contains a matrix of 22 rows of 10 storage tubes per row, plus an addition of six over pack tubes per vault. Each standard tube will be capable of holding two 4.5 meters long by 0.61 m diameter immobilized high-level waste canisters. Each over pack tube will be capable of holding one 4.5 meter long by 0.61 m diameter immobilized high-level waste canister. The resulting vitrified waste eventually will be transported to an approved national repository.

EXAMPLE FOR COMPLETING ITEMS XII and XIII (shown in lines numbered X-1, X-2, and X-3 below): A facility has two storage tanks that hold 1200 gallons and 400 gallons respectively. There is also treatment in tanks at 20 gallons/hr. Finally, a one-quarter acre area that is two meters deep will undergo *in situ vitrification.*

Section XII. Process Codes and Design Capacities								Section XIII. Other Process Codes								
Line Number		A. Process Codes (enter code)			B. Process Design Capacity		C. Process Total Number of Units	Line Number		A. Process Codes (enter code)			B Process Design Capacity		C. Process Total Number of Units	D. Process Description
					1. Amount	2. Unit of Measure (enter code)							1. Amount	2. Unit of Measure (enter code)		
X	1	S	0	2	1,600	G	002	X	1	T	0	4	700	C	001	In situ vitrification
X	2	T	0	3	20	E	001									
X	3	T	0	4	700	C	001									
	1	S	0	1	1,530,000	L	002		1							
	2								2							
	3								3							
	4								4							
	5								5							
	6								6							
	7								7							
	8								8							
	9								9							
1	0							1	0							
1	1							1	1							
1	2							1	2							
1	3							1	3							
1	4							1	4							
1	5							1	5							
1	6							1	6							
1	7							1	7							
1	8							1	8							
1	9							1	9							
2	0							2	0							
2	1							2	1							
2	2							2	2							
2	3							2	3							
2	4							2	4							
2	5							2	5							

XIV. Description of Dangerous Wastes

Example for completing this section: A facility will receive three non-listed wastes, then store and treat them on-site. Two wastes are corrosive only, with the facility receiving and storing the wastes in containers. There will be about 200 pounds per year of each of these two wastes, which will be neutralized in a tank. The other waste is corrosive and ignitable and will be neutralized then blended into hazardous waste fuel. There will be about 100 pounds per year of that waste, which will be received in bulk and put into tanks.

Line Number	A. Dangerous Waste No.				B. Estimated Annual Quantity of Waste	C. Unit of Measure	D. Processes									
							(1) Process Codes									(2) Process Description [If a code is not entered in D(1)]
X 1	**D**	**0**	**0**	**2**	**400**	**P**	**S**	**0**	**1**	**T**	**0**	**1**				
X 2	**D**	**0**	**0**	**1**	**100**	**P**	**S**	**0**	**2**	**T**	**0**	**1**				
X 3	**D**	**0**	**0**	**2**												**Included with above**
1	D	0	0	2	9,575	T	S	0	1							
2	D	0	0	4		T	S	0	1							
3	D	0	0	5		T	S	0	1							
4	D	0	0	6		T	S	0	1							
5	D	0	0	7		T	S	0	1							
6	D	0	0	8		T	S	0	1							
7	D	0	0	9		T	S	0	1							
8	D	0	1	0		T	S	0	1							
9	D	0	1	1		T	S	0	1							
10	D	0	1	8		T	S	0	1							
11	D	0	1	9		T	S	0	1							
12	D	0	2	2		T	S	0	1							
13	D	0	2	8		T	S	0	1							
14	D	0	2	9		T	S	0	1							
15	D	0	3	0		T	S	0	1							
16	D	0	3	3		T	S	0	1							
17	D	0	3	4		T	S	0	1							
18	D	0	3	5		T	S	0	1							
19	D	0	3	6		T	S	0	1							
20	D	0	3	8		T	S	0	1							
21	D	0	3	9		T	S	0	1							
22	D	0	4	0		T	S	0	1							
23	D	0	4	1		T	S	0	1							
24	D	0	4	3		T	S	0	1							
25	W	T	0	1		T	S	0	1							

EPA/State ID Number	W	A	7	8	9	0	0	0	8	9	6	7

Continuation of Section XIV. Description of Dangerous Waste

Line Number	A. Dangerous Waste No.				B. Estimated Annual Quantity of Waste	C. Unit of Measure	D. Process									
							(1) Process Codes									(2) Process Description [If a code is not entered in D(1)]
26	W	T	0	2		T	S	0	1							
27	W	P	0	2		T	S	0	1							
28	W	P	0	1		T	S	0	1							
29	F	0	0	1		T	S	0	1							
30	F	0	0	2		T	S	0	1							
31	F	0	0	3		T	S	0	1							
32	F	0	0	4		T	S	0	1							
33	F	0	0	5		T	S	0	1							
34						T	S	0	1							
35						T	S	0	1							
36						T	S	0	1							
37						T	S	0	1							
38						T	S	0	1							
39						T	S	0	1							
40						T	S	0	1							
41						T	S	0	1							
42						T	S	0	1							
43						T	S	0	1							
44						T	S	0	1							
45						T	S	0	1							
46						T	S	0	1							
47						T	S	0	1							
48						T	S	0	1							
49						T	S	0	1							
50						T	S	0	1							
51						T	S	0	1							
52						T	S	0	1							
53						T	S	0	1							
54						T	S	0	1							
55						T	S	0	1							
56						T	S	0	1							
57						T	S	0	1							
58						T	S	0	1							
59						T	S	0	1							
60																

XV. Map

Attach to this application a topographic map of the area extending to at least one (1) mile beyond property boundaries. The map must show the outline of the facility; the location of each of its existing and proposed intake and discharge structures; each of its dangerous waste treatment, storage, recycling, or disposal units; and each well where fluids are injected underground. Include all springs, rivers, and other surface water bodies in this map area, plus drinking water wells listed in public records or otherwise known to the applicant within ¼ mile of the facility property boundary. The instructions provide additional information on meeting these requirements.

Topographic map is located in the Ecology Library

XVI. Facility Drawing

All existing facilities must include a scale drawing of the facility (refer to instructions for more detail).

XVII. Photographs

All existing facilities must include photographs (aerial or ground-level) that clearly delineate all existing structures; existing storage, treatment, recycling, and disposal areas; and sites of future storage, treatment, recycling, or disposal areas (refer to instructions for more detail).

XVIII. Certifications

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Operator Name and Official Title (type or print) Shirley J. Olinger, Manager U.S. Department of Energy Office of River Protection	**Signature** Shirley J. Olinger	**Date Signed** 9/24/08
Co-Operator* Name and Official Title (type or print) William J. Johnson President and Project Manager Washington River Protection Solutions, LLC	**Signature** William Johnson	**Date Signed** 9/09/08
Co-Operator – Address and Telephone Number* P.O. Box 850 Richland, WA 99352 (509) 372-9138		
Facility-Property Owner Name and Official Title (type or print) Shirley J. Olinger, Manager U.S. Department of Energy Office of River Protection	**Signature** Shirley J. Olinger	**Date Signed** 9/24/08

Comments

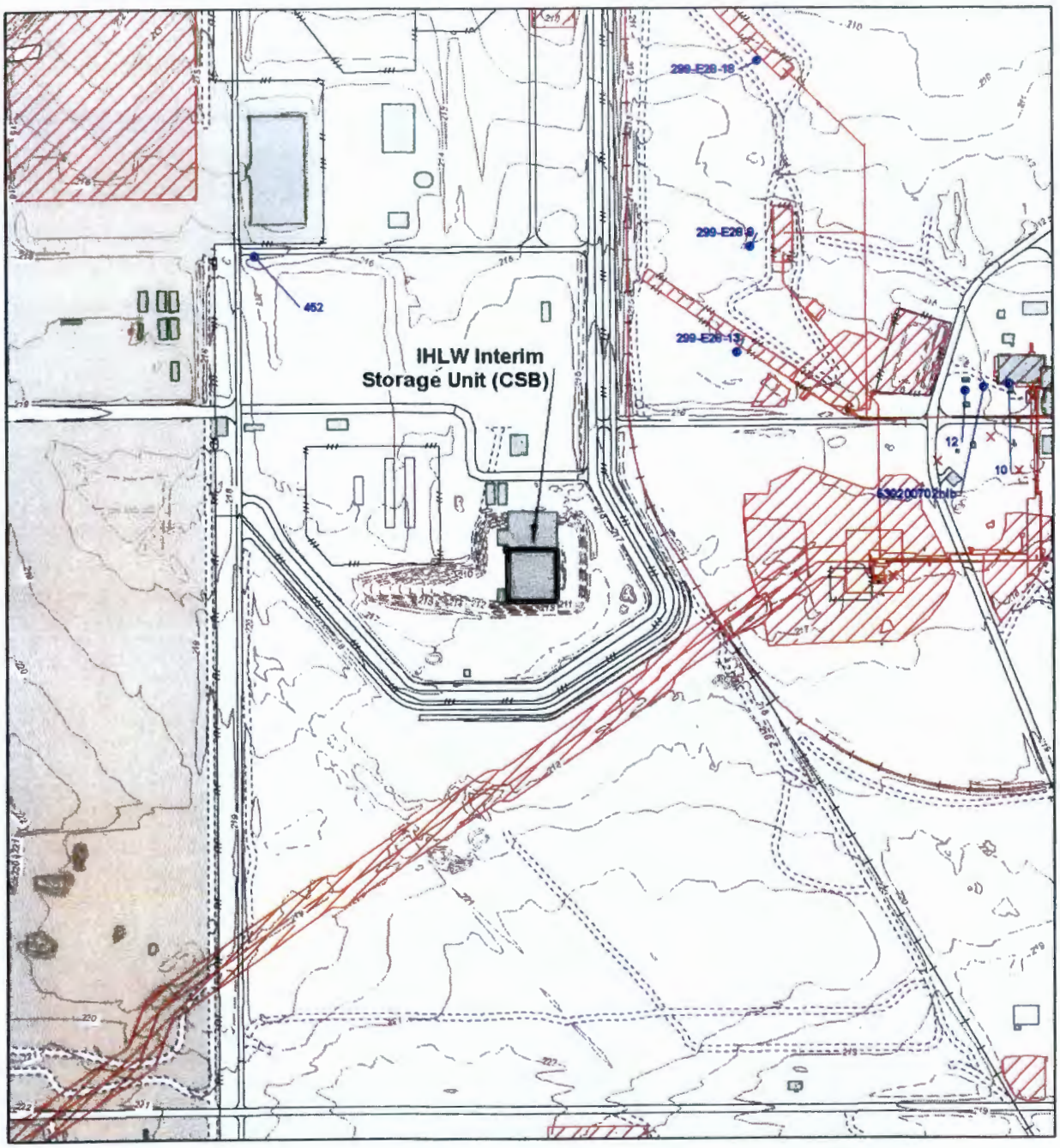
In Section VII., Facility Operator Information, there is no change to DOE as the Facility Owner/Operator; only a change in Co-Operator*. The change in Co-Operator* will be effective October 1, 2008.

The facility drawing required by Section XVI is located in the Ecology Library.

IHLW Interim Storage Unit

ILHW Interim Storage Unit Located Inside Building

99030146-5JPG
Photo Taken 1999



IHLW Interim Storage Unit (CSB)

Prepared for:
US DEPARTMENT OF ENERGY
RICHLAND OPERATIONS OFFICE
Created and Published by:
Central Mapping Services
Fluor Hanford, Richland, WA
(509) 373-9076
INTENDED USE: REFERENCE ONLY

Hanford Site

Unit Location

- TSD Unit Boundary
- DOE Operating Areas
- Hanford Facility
- Injection and Withdrawal Wells
- Contours at 1 Meter Intervals
- Depression Contours
- SWMUs and Known Releases
- Linear SWMUs and Known Releases
- Spot SWMUs and Known Releases
- Buildings
- Structures
- Concrete
- Major Roads
- Service Roads
- Railroads
- Fences

Meters: 0 50 100 150 200
Feet: 0 100 200 400 600

O:\Projects\2005\RCRA_TSD\050614_2ndPriorityFacilityTopos2005_Thompson\Maps\080703_IHLW_LineDwg_85x11_Rev0.mxd - 7/9/2008 @ 2:50:30 PM

Attachment 2
08-ESQ-223

242-A Evaporator
Part A of Application for Dangerous Waste Permit

WASHINGTON STATE DEPARTMENT OF ECOLOGY

Dangerous Waste Permit Application Part A Form

Date Received	Reviewed by:	Date:
Month Day Year	Approved by:	Date:

I. This form is submitted to: (place an "X" in the appropriate box)

☒	Request modification to a final status permit (commonly called a "Part B" permit)
☐	Request a change under interim status
☐	Apply for a final status permit. This includes the application for the initial final status permit for a site or for a permit renewal (i.e., a new permit to replace an expiring permit).
☐	Establish interim status because of the wastes newly regulated on: (Date)
	List waste codes:

II. EPA/State ID Number

W A 7 8 9 0 0 0 8 9 6 7

III. Name of Facility

US Department of Energy – Hanford Facility

IV. Facility Location (Physical address not P.O. Box or Route Number)

A. Street

825 Jadwin

City or Town	State	ZIP Code
Richland	WA	99352

County Code (if known)	County Name
0 0 5	Benton

B. Land Type	C. Geographic Location Latitude (degrees, mins, secs)	Longitude (degrees, mins, secs)	D. Facility Existence Date Month Day Year
F	Refer to TOPO Map (Section XV.)		0 3 0 2 1 9 4 3

V. Facility Mailing Address

Street or P.O. Box

P.O. Box 450

City or Town	State	ZIP Code
Richland	WA	99352

VI. Facility contact (Person to be contacted regarding waste activities at facility)		
Name (last)	(first)	
Olinger	Shirley	
Job Title	Phone Number (area code and number)	
Manager	(509) 372-3062	
Contact Address		
Street or P.O. Box		
P.O. Box 450		
City or Town	State	ZIP Code
Richland	WA	99352

VII. Facility Operator Information	
A. Name	Phone Number
Department of Energy Owner/Operator Washington River Protection Solutions, LLC Co-Operator for 242-A Evaporator*	(509) 372-3062 (509) 372-9138*
Street or P.O. Box	
P.O. Box 450 P.O. Box 850*	

City or Town	State	ZIP Code
Richland	WA	99352

B. Operator Type	F									
C. Does the name in VII.A reflect a proposed change in operator?	☐ Yes ☒ No Co-Operator* change									
If yes, provide the scheduled date for the change:	Month			Day			Year			
	1	0		0	1		2	0	0	8
D. Is the name listed in VII.A. also the owner? If yes, skip to Section VIII.C.	☐ Yes ☒ No									

VIII. Facility Owner Information	
A. Name	Phone Number (area code and number)
Shirley J Olinger, Operator/Facility-Property Owner	(509) 372-3062
Street or P.O. Box	
P.O. Box 450	

City or Town	State	ZIP Code
Richland	WA	99352

B. Owner Type	F									
C. Does the name in VIII.A reflect a proposed change in owner?	☐ Yes ☒ No									
If yes, provide the scheduled date for the change:	Month			Day			Year			

IX. NAICS Codes (5/6 digit codes)													
A. First							B. Second						
5	6	2	2	1		Waste Treatment & Disposal	9	2	4	1	1	0	Administration of Air & Water Resource & Solid Waste Management Programs
C. Third							D. Fourth						
5	4	1	7	1		Research & Development in the Physical, Engineering, & Life Sciences							

X. Other Environmental Permits (see instructions)

A. Permit Type	B. Permit Number	C. Description
E	AIR04-812	WAC 246-247, NOC Rad Air
E	TSCA06-08-04	40 CFR 761, TSCA RBDA Approval letter from L. J. Iani (EPA Region 10 Adminstator) to J. B. Hebdon and J. E. Rasmussen (DOE) dated 6/8/04
E	A4041	Petroleum Underground Storage Tank License

XI. Nature of Business (provide a brief description that includes both dangerous waste and non-dangerous waste areas and activities)

The 242-A Evaporator is used to treat and store mixed waste from the DST System. Two waste streams leave the 242-A Evaporator following the treatment process: a concentrated slurry waste stream that is routed to the DST System; and a process condensate waste stream that is routed to the Liquid Effluent Retention Facility.

The waste fed to the 242-A Evaporator is regulated as a mixed waste with the same waste constituents as the waste in the DST System. The concentrated slurry is a characteristic waste (D001, D002, and D003), toxic waste (D004 through D011, D018, D019, D022, D028 through D030, D033 through D036, D038 through D041, and D043), nonspecific source waste (F001 through F005 and F039), and state-only characteristic waste (WT01, WT02, WP01, WP02. Multi-source leachate (F039) is included as a waste derived from nonspecific source waste F001 through F005.

The process condensate is regulated as a mixed waste due to the toxicity of ammonia (WT02) and because it is derived from the waste with a nonspecific source wastes F001 through F005. Multi-source leachate (F039) is included as a waste derived from nonspecific source waste F001 through F005.

The list of dangerous waste constituents under Section XIV.A includes constituents that have not been detected in the waste; however, knowledge of the processes providing the waste to the 242-A Evaporator indicates the strong possibility that these constituents are present in the waste or there is a potential for treating these constituents in the future. The annual waste quantity listed under Section XIV.B was calculated using an operating schedule of 365 days per year, a maximum pumping rate of 655 liters/minute (173 gpm), and a specific gravity of 2.0 for the waste. This calculation was done to provide a maximum estimate of annual waste quantity.

T04

The 242-A Evaporator began waste management operations in March of 1977. The 242-A Evaporator is located in the 200 East Area and is used to treat mixed waste from the Double-Shell Tank (DST) System by removing water and most volatile organics. Two waste streams leave the 242-A Evaporator following the treatment process. The first stream, the concentrated slurry (approximately 40 to 60 percent of the water is removed during evaporation along with a portion of volatile organics), is pumped back into the DST System. The second waste stream, process condensate (containing a portion of the volatile organics removed from the mixed waste during the evaporation process), is routed through condensate filters before release to a retention basin (Liquid Effluent Retention Facility). Off gasses from the process are routed through a de-entrainment unit, a prefilter, and high-efficiency particulate air filters before being discharged to the environment. The 242-A Evaporator is used to treat up to 943,000 liters (~249,000 gallons) of mixed waste per day, based on the 655 liters/minute (173) gpm capacity of the spare feed pump for AW-102.

S02

Tank C-100, a 4.3-meter (14-foot) diameter by 5.9-meter (19-foot) high tank with a maximum design capacity of 67,380 liters (17,800 gallons) is located in the condensate room. Process condensate from the primary, inter-, and after-condensers drain by gravity to tank C -100, which is constructed of stainless steel. In addition, tank C-100 receives potentially contaminated drainage from the vessel vent system via a 102 -liter (27 gallon) seal pot.

Tank C-A-1 is located in the evaporator room and consists of two sections: the lower (liquid) section, a 4.3-meter (14-foot) diameter stainless steel shell, and an upper (vapor) section, a 3.5-meter (11.6-foot) diameter stainless steel shell, containing two wire-mesh de-entrainment pads for the removal of liquids and solids that could be carried into the vapor header. Process slurry from the reboiler discharges to the evaporator vessel (tank C-A-1). Concentrated process slurry exits the lower section of tank C-A-1 via the 28-inch recirculating line. Vapor flows out of tank C-A-1 through a 42-inch vapor line at the top. The maximum design capacity of tank C-A-1 is 103,217 liters (27,267 gallons).

EXAMPLE FOR COMPLETING ITEMS XII and XIII (shown in lines numbered X-1, X-2, and X-3 below): A facility has two storage tanks that hold 1200 gallons and 400 gallons respectively. There is also treatment in tanks at 20 gallons/hr. Finally, a one-quarter acre area that is two meters deep will undergo *in situ vitrification*.

Section XII. Process Codes and Design Capacities								Section XIII. Other Process Codes								
Line Number		A. Process Codes (enter code)			B. Process Design Capacity 1. Amount	B. Process Design Capacity 2. Unit of Measure (enter code)	C. Process Total Number of Units	Line Number		A. Process Codes (enter code)			B. Process Design Capacity 1. Amount	B. Process Design Capacity 2. Unit of Measure (enter code)	C. Process Total Number of Units	D. Process Description
X	1	S	0	2	1,600	G	002	X	1	T	0	4	700	C	001	In situ vitrification
X	2	T	0	3	20	E	001									
X	3	T	0	4	700	C	001									
	1	T	0	4	943,000	V	001		1							
	2	S	0	2	170,597	L	002		2							
	3								3							
	4								4							
	5								5							
	6								6							
	7								7							
	8								8							
	9								9							
1	0							1	0							
1	1							1	1							
1	2							1	2							
1	3							1	3							
1	4							1	4							
1	5							1	5							
1	6							1	6							
1	7							1	7							
1	8							1	8							
1	9							1	9							
2	0							2	0							
2	1							2	1							
2	2							2	2							
2	3							2	3							
2	4							2	4							
2	5							2	5							

XIV. Description of Dangerous Wastes

Example for completing this section: A facility will receive three non-listed wastes, then store and treat them on-site. Two wastes are corrosive only, with the facility receiving and storing the wastes in containers. There will be about 200 pounds per year of each of these two wastes, which will be neutralized in a tank. The other waste is corrosive and ignitable and will be neutralized then blended into hazardous waste fuel. There will be about 100 pounds per year of that waste, which will be received in bulk and put into tanks.

Line Number	A. Dangerous Waste No. (enter code)				B. Estimated Annual Quantity of Waste	C. Unit of Measure (enter code)	D. Processes									
							(1) Process Codes (enter)									(2) Process Description [If a code is not entered in D (1)]
X 1	D	0	0	2	400	P	S	0	1	T	0	1				
X 2	D	0	0	1	100	P	S	0	2	T	0	1				
X 3	D	0	0	2												Included with above
1	D	0	0	1	687,702,298	K	T	0	4							
2	D	0	0	2		K	T	0	4							
3	D	0	0	3		K	T	0	4							
4	D	0	0	4		K	T	0	4							
5	D	0	0	5		K	T	0	4							
6	D	0	0	6		K	T	0	4							
7	D	0	0	7		K	T	0	4							
8	D	0	0	8		K	T	0	4							
9	D	0	0	9		K	T	0	4							
10	D	0	1	0		K	T	0	4							
11	D	0	1	1		K	T	0	4							
12	D	0	1	8		K	T	0	4							
13	D	0	1	9		K	T	0	4							
14	D	0	2	2		K	T	0	4							
15	D	0	2	8		K	T	0	4							
16	D	0	2	9		K	T	0	4							
17	D	0	3	0		K	T	0	4							
18	D	0	3	3		K	T	0	4							
19	D	0	3	4		K	T	0	4							
20	D	0	3	5		K	T	0	4							
21	D	0	3	6		K	T	0	4							
22	D	0	3	8		K	T	0	4							
23	D	0	3	9		K	T	0	4							
24	D	0	4	0		K	T	0	4							
25	D	0	4	1		K	T	0	4							

EPA/State ID Number	W	A	7	8	9	0	0	0	8	9	6	7

Line Number	A. Dangerous Waste No. (enter code)				B. Estimated Annual Quantity of Waste	C. Unit of Measure (enter code)	D. Process (1) Process Codes (enter)									D. Process (2) Process Description [If a code is not entered in D (1)]
26	D	0	4	3		K	T	0	4							
27	W	T	0	1		K	T	0	4							
28	W	T	0	2		K	T	0	4							
29	W	P	0	1		K	T	0	4							
30	W	P	0	2		K	T	0	4							
31	F	0	0	1		K	T	0	4							
32	F	0	0	2		K	T	0	4							
33	F	0	0	3		K	T	0	4							
34	F	0	0	4		K	T	0	4							
35	F	0	0	5		K	T	0	4							
36	F	0	3	9		K	T	0	4							
37	D	0	0	1	348,241	K	S	0	2							
38	D	0	0	2		K	S	0	2							
39	D	0	0	3		K	S	0	2							
40	D	0	0	4		K	S	0	2							
41	D	0	0	5		K	S	0	2							
42	D	0	0	6		K	S	0	2							
43	D	0	0	7		K	S	0	2							
44	D	0	0	8		K	S	0	2							
45	D	0	0	9		K	S	0	2							
46	D	0	1	0		K	S	0	2							
47	D	0	1	1		K	S	0	2							
48	D	0	1	8		K	S	0	2							
49	D	0	1	9		K	S	0	2							
50	D	0	2	2		K	S	0	2							
51	D	0	2	8		K	S	0	2							
52	D	0	2	9		K	S	0	2							
53	D	0	3	0		K	S	0	2							
54	D	0	3	3		K	S	0	2							
55	D	0	3	4		K	S	0	2							
56	D	0	3	5		K	S	0	2							
57	D	0	3	6		K	S	0	2							
58	D	0	3	8		K	S	0	2							
59	D	0	3	9		K	S	0	2							
60	D	0	4	0		K	S	0	2							
61	D	0	4	1		K	S	0	2							
62	D	0	4	3		K	S	0	2							
63	W	T	0	1		K	S	0	2							
64	W	T	0	2		K	S	0	2							
65	W	P	0	1		K	S	0	2							

EPA/State ID Number	W	A	7	8	9	0	0	0	8	9	6	7

Line Number	A. Dangerous Waste No. (enter code)				B. Estimated Annual Quantity of Waste	C. Unit of Measure (enter code)	D. Process									
							(1) Process Codes (enter)									(2) Process Description [If a code is not entered in D (1)]
66	W	P	0	2		K	S	0	2							
67	F	0	0	1		K	S	0	2							
68	F	0	0	2		K	S	0	2							
69	F	0	0	3		K	S	0	2							
70	F	0	0	4		K	S	0	2							
71	F	0	0	5		K	S	0	2							
72	F	0	3	9		K	S	0	2							
73																
74																
75																
76																
77																
78																
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98																
99																
100																

XV. Map

Attach to this application a topographic map of the area extending to at least one (1) mile beyond property boundaries. The map must show the outline of the facility; the location of each of its existing and proposed intake and discharge structures; each of its dangerous waste treatment, storage, recycling, or disposal units; and each well where fluids are injected underground. Include all springs, rivers, and other surface water bodies in this map area, plus drinking water wells listed in public records or otherwise known to the applicant within ¼ mile of the facility property boundary. The instructions provide additional information on meeting these requirements.

Topographic map is located in the Ecology Library

XVI. Facility Drawing

All existing facilities must include a scale drawing of the facility (refer to Instructions for more detail).

XVII. Photographs

All existing facilities must include photographs (aerial or ground-level) that clearly delineate all existing structures; existing storage, treatment, recycling, and disposal areas; and sites of future storage, treatment, recycling, or disposal areas (refer to Instructions for more detail).

XVIII. Certifications

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

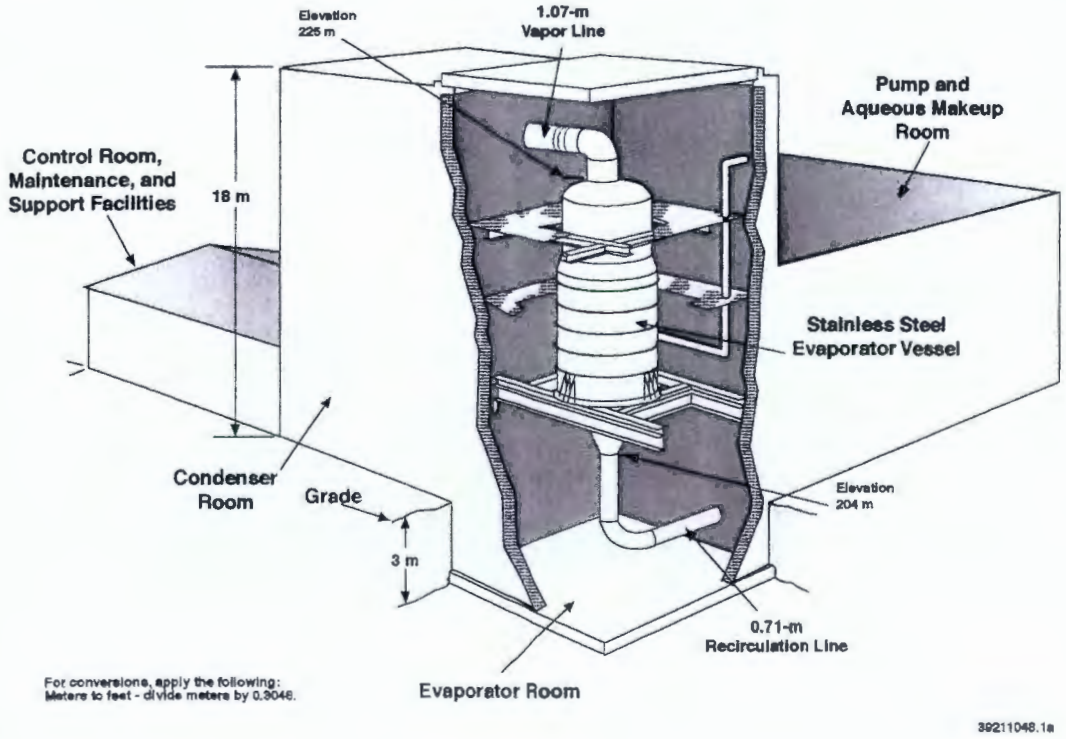
Operator Name and Official Title (type or print) Shirley J. Olinger, Manager U.S. Department of Energy Office of River Protection	**Signature**	**Date Signed** 9/15/08
Co-Operator* Name and Official Title (type or print) William J. Johnson President and Project Manager Washington River Protection Solutions, LLC	**Signature**	**Date Signed** 9/09/08
Co-Operator – Address and Telephone Number* P.O. Box 850 Richland, WA 99352 (509) 372-9138		
Facility-Property Owner Name and Official Title (type or print) Shirley J. Olinger, Manager U.S. Department of Energy Office of River Protection	**Signature**	**Date Signed** 9/15/08

Comments

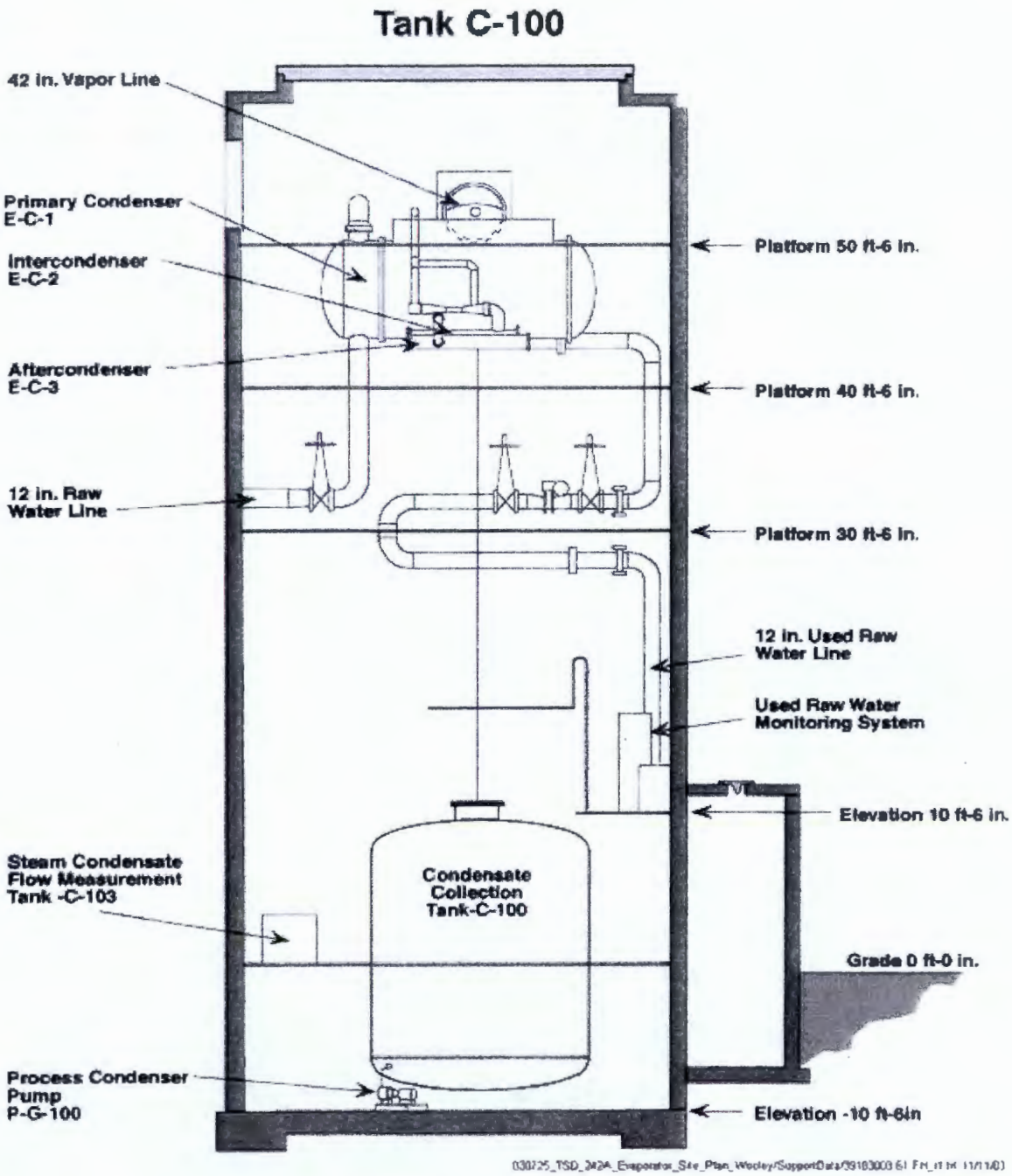
In Section VII, Facility Operator Information, there is no change to DOE as the Facility Owner/Operator; only a change in Co-Operator*. The change in Co-Operator* will be effective October 1, 2008.

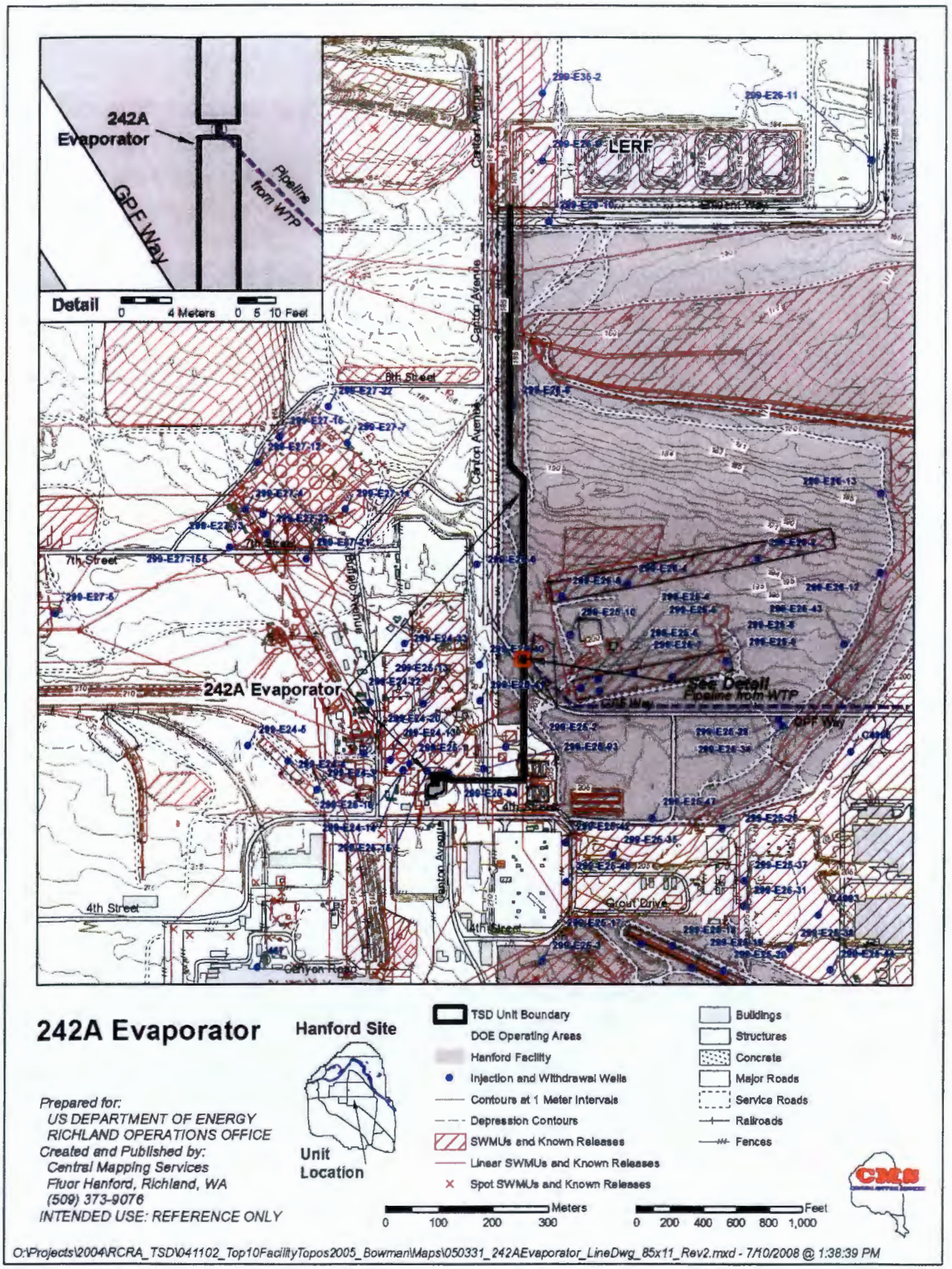
242-A Evaporator

96080579-19CN
Photo Taken 1996



242-A Evaporator




242A Evaporator
GPF Way
Pipeline from WTP
Detail
0 4 Meters
0 5 10 Feet
LERF
Canton Avenue
8th Street
7th Street
4th Street
242A Evaporator
See Detail
Pipeline from WTP
GPF Way
Grout Drive
Canyon Road
242A Evaporator
Hanford Site
Unit Location
Prepared for:
US DEPARTMENT OF ENERGY
RICHLAND OPERATIONS OFFICE
Created and Published by:
Central Mapping Services
Fluor Hanford, Richland, WA
(509) 373-9076
INTENDED USE: REFERENCE ONLY
TSD Unit Boundary
DOE Operating Areas
Hanford Facility
Injection and Withdrawal Wells
Contours at 1 Meter Intervals
Depression Contours
SWMUs and Known Releases
Linear SWMUs and Known Releases
Spot SWMUs and Known Releases
Buildings
Structures
Concrete
Major Roads
Service Roads
Railroads
Fences
Meters
0 100 200 300
Feet
0 200 400 600 800 1,000
O:\Projects\2004\RCRA_TSD\041102_Top10FacilityTopos2005_Bowman\Maps\050331_242AEvaporator_LineDwg_85x11_Rev2.mxd - 7/10/2008 @ 1:38:39 PM

Attachment 3
08-ESQ-223

Single-Shell Tank System
Part A of Application for Dangerous Waste Permit

WASHINGTON STATE DEPARTMENT OF ECOLOGY

Dangerous Waste Permit Application Part A Form

Date Received	Reviewed by:	Date:
Month Day Year	Approved by:	Date:

I. This form is submitted to: (place an "X" in the appropriate box)

☐	Request modification to a final status permit (commonly called a "Part B" permit)
☒	Request a change under interim status
☐	Apply for a final status permit. This includes the application for the initial final status permit for a site or for a permit renewal (i.e., a new permit to replace an expiring permit).
☐	Establish interim status because of the wastes newly regulated on: (Date)
	List waste codes:

II. EPA/State ID Number

W A 7 8 9 0 0 0 8 9 6 7

III. Name of Facility

US Department of Energy – Hanford Facility

IV. Facility Location (Physical address not P.O. Box or Route Number)

A. Street

825 Jadwin

City or Town	State	ZIP Code
Richland	WA	99352

County Code (if known)	County Name
0 0 5	Benton

B. Land Type	C. Geographic Location Latitude (degrees, mins, secs)	Longitude (degrees, mins, secs)	D. Facility Existence Date Month Day Year
F	Refer to TOPO Map (Section XV.)		0 3 0 2 1 9 4 3

V. Facility Mailing Address

Street or P.O. Box

P.O. Box 450

City or Town	State	ZIP Code
Richland	WA	99352

VI. Facility contact (Person to be contacted regarding waste activities at facility)		
Name (last)	**(first)**	
Olinger	Shirley	
Job Title	**Phone Number (area code and number)**	
Manager	(509) 372-3062	
Contact Address		
Street or P.O. Box		
P.O. Box 450		
City or Town	**State**	**ZIP Code**
Richland	WA	99352

VII. Facility Operator Information	
A. Name	**Phone Number**
Department of Energy Owner /Operator Washington River Protection Solutions, LLC Co-Operator for Single-Shell Tank System*	(509) 376-6677 (509) 372-9138*
Street or P.O. Box	
P.O. Box 450 P.O. Box 850*	

City or Town	State	ZIP Code
Richland	WA	99352

B. Operator Type	F		
C. Does the name in VII.A reflect a proposed change in operator?	☐ Yes ☒ No		
If yes, provide the scheduled date for the change:	**Month**	**Day**	**Year**
D. Is the name listed in VII.A. also the owner? If yes, skip to Section VIII.C.	☐ Yes ☒ No		

VIII. Facility Owner Information	
A. Name	**Phone Number (area code and number)**
Shirley J Olinger, Operator/Facility-Property Owner	(509) 372-3062
Street or P.O. Box	
P.O. Box 450	

City or Town	State	ZIP Code
Richland	WA	99352

B. Operator Type	F		
C. Does the name in VII.A reflect a proposed change in operator?	☐ Yes ☒ No		
If yes, provide the scheduled date for the change:	**Month**	**Day**	**Year**

IX. NAICS Codes (5/6 digit codes)													
A. First							**B. Second**						
5	6	2	2	1		Waste Treatment & Disposal	9	2	4	1	1	0	Administration of Air & Water Resource & Solid Waste Management Programs
C. Third							**D. Fourth**						
5	4	1	7	1		Research & Development in the Physical, Engineering, & Life Sciences							

X. Other Environmental Permits (see instructions)

A. Permit Type	B. Permit Number	C. Description
E	DE03NWP 001	NOC Non- Radioactive Air, WAC 173-400/460
E	DE04NWP-002	NOC Non- Radioactive Air, WAC 173-400/460
E	DE05NWP-002	NOC Non- Radioactive Air, WAC 173-400/460
E	AIR-06-616	NOC Radioactive Air WAC 246-247
E	AIR-06-637	NOC Radioactive Air WAC 246-247
E	AIR-06-638	NOC Radioactive Air WAC 246-247
E	AIR-06-642	NOC Radioactive Air WAC 246-247
E	AIR-06-645	NOC Radioactive Air WAC 246-247
E	AIR-06-648	NOC Radioactive Air WAC 246-247
E	AIR-06-652	NOC Radioactive Air WAC 246-247
E	AIR-06-653	NOC Radioactive Air WAC 246-247
E	AIR-06-655	NOC Radioactive Air WAC 246-247
E	AIR-06-656	NOC Radioactive Air WAC 246-247
E	AIR-06-659	NOC Radioactive Air WAC 246-247
E	AIR-06-660	NOC Radioactive Air WAC 246-247
E	AIR-06-670	NOC Radioactive Air WAC 246-247

XI. Nature of Business (provide a brief description that includes both dangerous waste and non-dangerous waste areas and activities)

The mixed waste stored in the SST System was generated by four major chemical reprocessing operations: the bismuth phosphate (BiPo) process, the reduction-oxidation (REDOX) process, the plutonium-uranium extraction (PUREX) process, and the tributyl phosphate (TBP) process.

The dangerous waste numbers listed under the description of dangerous waste are based on computer model and past process knowledge rather than on chemical analysis of waste. The Estimated Annual Quantity of Dangerous Waste (Section XIV.B.) listed is 204,116,566 kilograms (450,000,000 pounds) and is based on an average density of the waste calculated from the densities of 26 core samples taken of waste stored in the various SSTs. The average density (1.4 kilograms/liter [12 pounds/gallon]) was multiplied by (36,836,000 gallons) and rounded-up to 204,116,556 kilograms (450,000,000 pounds). The figure 139,440,000 liters (36,836,000 gallons) represent the estimated volume of liquid mixed waste remaining in the SST System.

The quantity of waste lead stored in the diversion boxes is based on previous research of historical records. Because of the radiological hazards associated with individual inspection of the diversion boxes, a quantity of 23 kilograms (50 pounds) of waste lead was estimated for each box. This represents a conservative estimate, as 23 kilograms (50 pounds) is the maximum quantity of waste lead known to be in any one-diversion box.

S02, T01:

The Single-Shell Tank (SST) System consists of 149 tanks that were built between the years 1943 and 1964 to store mixed waste (S02) generated on the Hanford Site. There are two types of tanks in the SST System, the 100 series and the 200 series. The 133 100-series SSTs are 23 meters (75 feet) in diameter with operating capacities of 1,892,700 to 3,785,400 liters (500,000 to 1,000,000 gallons). The sixteen 200-series SSTs are smaller and of a similar design with a 6 meter (20 foot) diameter and a capacity of 208,197 liters (55,000 gallons). The SST System also includes five waste transfer vault systems: 244-AR, 244-BXR, 244-CR, 244-TXR, and 244-UR Vaults. Each vault system contains four tanks of varying capacities.

The maximum process design capacity for tank storage at the SST System is 348,390,160 liters (92,035,230 gallons). Treatment of the mixed waste in the SST System occurs when solids and interstitial liquids are separated and/or cooling liquids are added (T01). These treatment processes involve, but are not limited to, mechanical retrieval, sluicing, and saltwell pumping of the mixed waste. Retrieval liquids may be added to the SSTs only following appropriate Ecology approvals pursuant to M-45 and any subsequent applicable M-45 milestones. Retrieval liquids may include the Double-Shell Tank waste for the purpose of dissolution and to facilitate SST retrieval operations. The SST System has a process design limit of 2,271,240 liters (600,000 gallons) per day based on the simultaneous pumping of two SSTs in a 24-hour period. Ancillary equipment used for the transfer of liquid mixed waste consists of: (1) centrifugal pumps capable of pumping liquid mixed waste at 1,514 liters (400 gallons) per minute, (2) induction pumps capable of pumping liquid waste from the saltwell at 38 liters (10 gallons) per minute, and (3) associated valves and piping to the DST System. Mechanical equipment, sluicing equipment, and similar treatment/processes are not limited to the processes described previously.

The maximum process design capacity for tank treatment at the SST System is 2,271,240 liters (600,000 gallons) per day.

S03:

Associated with the SST System are 54 inactive diversion boxes designated as waste piles (S03). A summary of the SST System and corresponding diversion boxes is provided in Table 4. All diversion boxes used within the SST System are inactive and presently are isolated (weather covered). "Isolated' as used here means exterior water intrusion has been restricted.

The maximum process design capacity for waste pile storage at the SST System is approximately 23 kilograms (50 pounds) of waste lead stored in each diversion box (worst-case scenario) accounting for a total of 1,202 kilograms (2,650 pounds) or 0.11 cubic meter (0.14 cubic yard) of waste lead in storage.

EXAMPLE FOR COMPLETING ITEMS XII and XIII (shown in lines numbered X-1, X-2, and X-3 below): A facility has two storage tanks that hold 1200 gallons and 400 gallons respectively. There is also treatment in tanks at 20 gallons/hr. Finally, a one-quarter acre area that is two meters deep will undergo *in situ vitrification.*

Section XII. Process Codes and Design Capacities								Section XIII. Other Process Codes								
Line Number		A. Process Codes			B. Process Design Capacity		C. Process Total Number of Units	Line Number		A. Process Codes			B Process Design Capacity		C. Process Total Number of Units	D. Process Description
					1. Amount	2. Unit of Measure							1. Amount	2. Unit of Measure		
X	1	S	0	2	1,600	G	002	X	1	T	0	4	700	C	001	In situ vitrification
X	2	T	0	3	20	E	001									
X	3	T	0	4	700	C	001									
	1	S	0	2	348,390,160	L	149		1							
	2	T	0	1	2,271,240	V	149		2							
	3	S	0	3	0.11	C	54		3							
	4								4							
	5								5							
	6								6							
	7								7							
	8								8							
	9								9							
1	0							1	0							
1	1							1	1							
1	2							1	2							
1	3							1	3							
1	4							1	4							
1	5							1	5							
1	6							1	6							
1	7							1	7							
1	8							1	8							
1	9							1	9							
2	0							2	0							
2	1							2	1							
2	2							2	2							
2	3							2	3							
2	4							2	4							
2	5							2	5							

XIV. Description of Dangerous Wastes

Example for completing this section: A facility will receive three non-listed wastes, then store and treat them on-site. Two wastes are corrosive only, with the facility receiving and storing the wastes in containers. There will be about 200 pounds per year of each of these two wastes, which will be neutralized in a tank. The other waste is corrosive and ignitable and will be neutralized then blended into hazardous waste fuel. There will be about 100 pounds per year of that waste, which will be received in bulk and put into tanks.

Line Number			A. Dangerous Waste No.				B. Estimated Annual Quantity of Waste	C. Unit of Measure	D. Processes									
									(1) Process Codes									(2) Process Description [If a code is not entered in D(1)]
X	1		D	0	0	2	400	P	S	0	1	T	0	1				
X	2		D	0	0	1	100	P	S	0	2	T	0	1				
X	3		D	0	0	2												Included with above
		1	D	0	0	1	204,116,566	K	S	0	2	T	0	1				Includes Debris
		2	D	0	0	2		K	S	0	2	T	0	1				Includes Debris
		3	D	0	0	3		K	S	0	2	T	0	1				Includes Debris
		4	D	0	0	4		K	S	0	2	T	0	1				Includes Debris
		5	D	0	0	5		K	S	0	2	T	0	1				Includes Debris
		6	D	0	0	6		K	S	0	2	T	0	1				Includes Debris
		7	D	0	0	7		K	S	0	2	T	0	1				Includes Debris
		8	D	0	0	8		K	S	0	2	T	0	1				Includes Debris
		9	D	0	0	9		K	S	0	2	T	0	1				Includes Debris
	1	0	D	0	1	0		K	S	0	2	T	0	1				Includes Debris
	1	1	D	0	1	1		K	S	0	2	T	0	1				Includes Debris
	1	2	D	0	1	8		K	S	0	2	T	0	1				Includes Debris
	1	3	D	0	1	9		K	S	0	2	T	0	1				Includes Debris
	1	4	D	0	2	2		K	S	0	2	T	0	1				Includes Debris
	1	5	D	0	2	8		K	S	0	2	T	0	1				Includes Debris
	1	6	D	0	2	9		K	S	0	2	T	0	1				Includes Debris
	1	7	D	0	3	0		K	S	0	2	T	0	1				Includes Debris
	1	8	D	0	3	3		K	S	0	2	T	0	1				Includes Debris
	1	9	D	0	3	4		K	S	0	2	T	0	1				Includes Debris
	2	0	D	0	3	5		K	S	0	2	T	0	1				Includes Debris
	2	1	D	0	3	6		K	S	0	2	T	0	1				Includes Debris
	2	2	D	0	3	8		K	S	0	2	T	0	1				Includes Debris
	2	3	D	0	3	9		K	S	0	2	T	0	1				Includes Debris
	2	4	D	0	4	0		K	S	0	2	T	0	1				Includes Debris
	2	5	D	0	4	1		K	S	0	2	T	0	1				Includes Debris

EPA/State ID Number	W	A	7	8	9	0	0	0	8	9	6	7

Continuation of Section XIV. Description of Dangerous Waste

Line Number	A. Dangerous Waste No. (enter code)	B. Estimated Annual Quantity of Waste	C. Unit of Measure (enter code)	D. Process (1) Process Codes (enter)	D. Process (2) Process Description [If a code is not entered in D (1)]
26	D043		K	S02 T01	Includes Debris
27	WP01		K	S02 T01	Includes Debris
28	WP02		K	S02 T01	Includes Debris
29	WT01		K	S02 T01	Includes Debris
30	WT02		K	S02 T01	Includes Debris
31	F001		K	S02 T01	Includes Debris
32	F002		K	S02 T01	Includes Debris
33	F003		K	S02 T01	Includes Debris
34	F004		K	S02 T01	Includes Debris
35	F005		K	S02 T01	Includes Debris
36	D008	1,202	K	S03	Includes Debris
37					
38					
39					
40					
41					
42					
43					
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45					
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55					
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57					
58					

XV. Map

Attach to this application a topographic map of the area extending to at least one (1) mile beyond property boundaries. The map must show the outline of the facility; the location of each of its existing and proposed intake and discharge structures; each of its dangerous waste treatment, storage, recycling, or disposal units; and each well where fluids are injected underground. Include all springs, rivers, and other surface water bodies in this map area, plus drinking water wells listed in public records or otherwise known to the applicant within ¼ mile of the facility property boundary. The instructions provide additional information on meeting these requirements.

Topographic map is located in the Ecology Library

XVI. Facility Drawing

All existing facilities must include a scale drawing of the facility (refer to instructions for more detail).

XVII. Photographs

All existing facilities must include photographs (aerial or ground-level) that clearly delineate all existing structures; existing storage, treatment, recycling, and disposal areas; and sites of future storage, treatment, recycling, or disposal areas (refer to instructions for more detail).

XVIII. Certifications

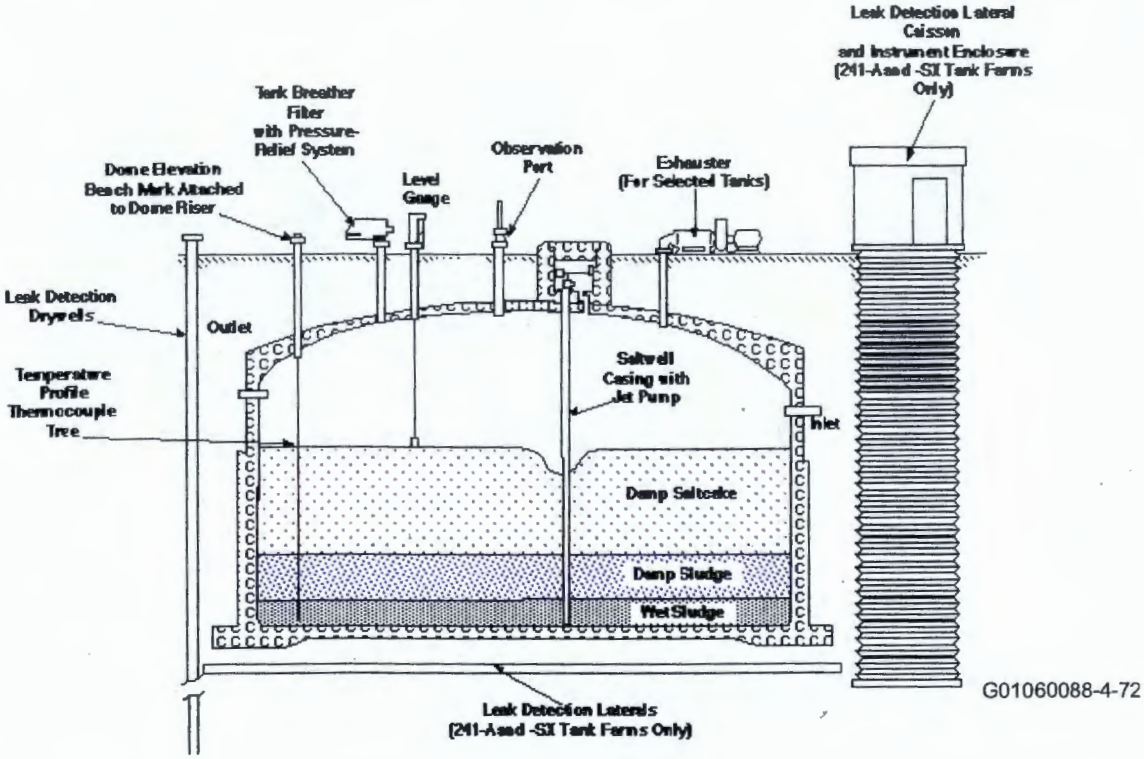
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

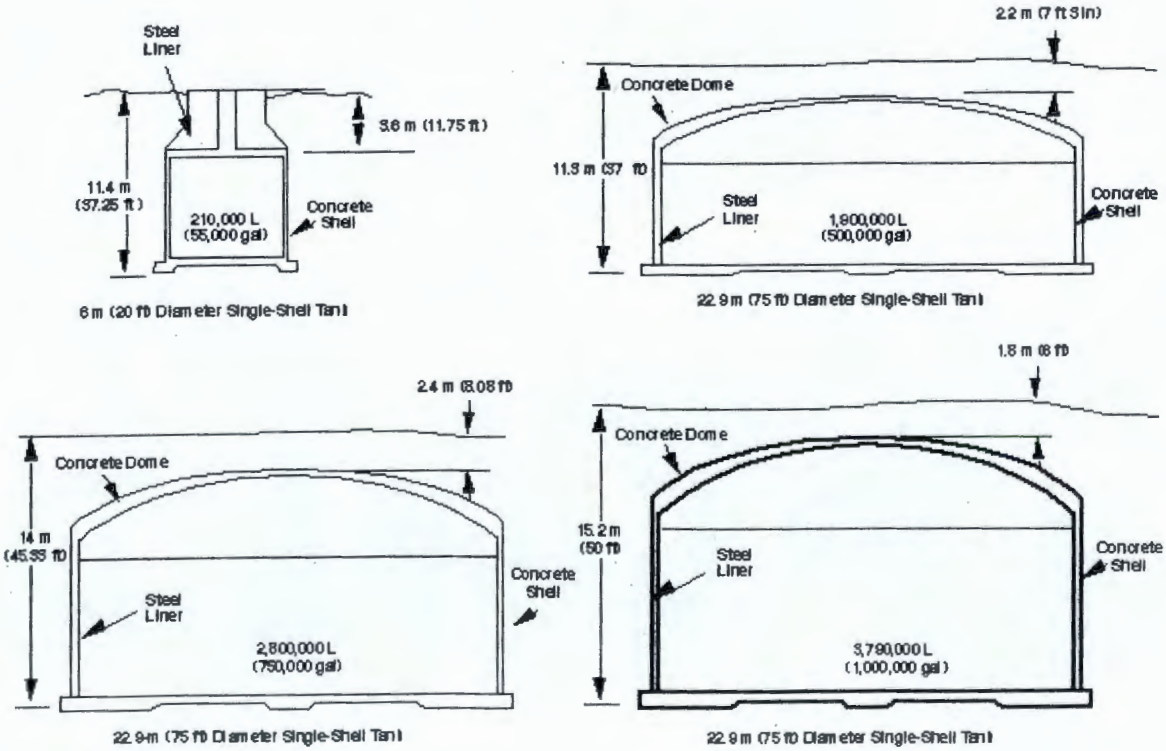
Operator Name and Official Title (type or print) Shirley J. Olinger, Manager U.S. Department of Energy Office of River Protection	**Signature** Shirley J. Olinger	**Date Signed** 9/24/08
Co-Operator* Name and Official Title (type or print) William J. Johnson President and Project Manager Washington River Protection Solutions, LLC	**Signature** William J. Johnson	**Date Signed** 9/09/08
Co-Operator – Address and Telephone Number* P.O. Box 850 Richland, WA 99352 (509) 372-9138		
Facility-Property Owner Name and Official Title (type or print) Shirley J. Olinger, Manager U.S. Department of Energy Office of River Protection	**Signature** Shirley J. Olinger	**Date Signed** 9/24/08

Comments

In Section VII, Facility Operator Information, there is no change to DOE as the Facility Owner/Operator; only a change in Co-Operator*. The change in Co-Operator* will be effective October 1, 2008.

Single-Shell Tank System – Typical Tank

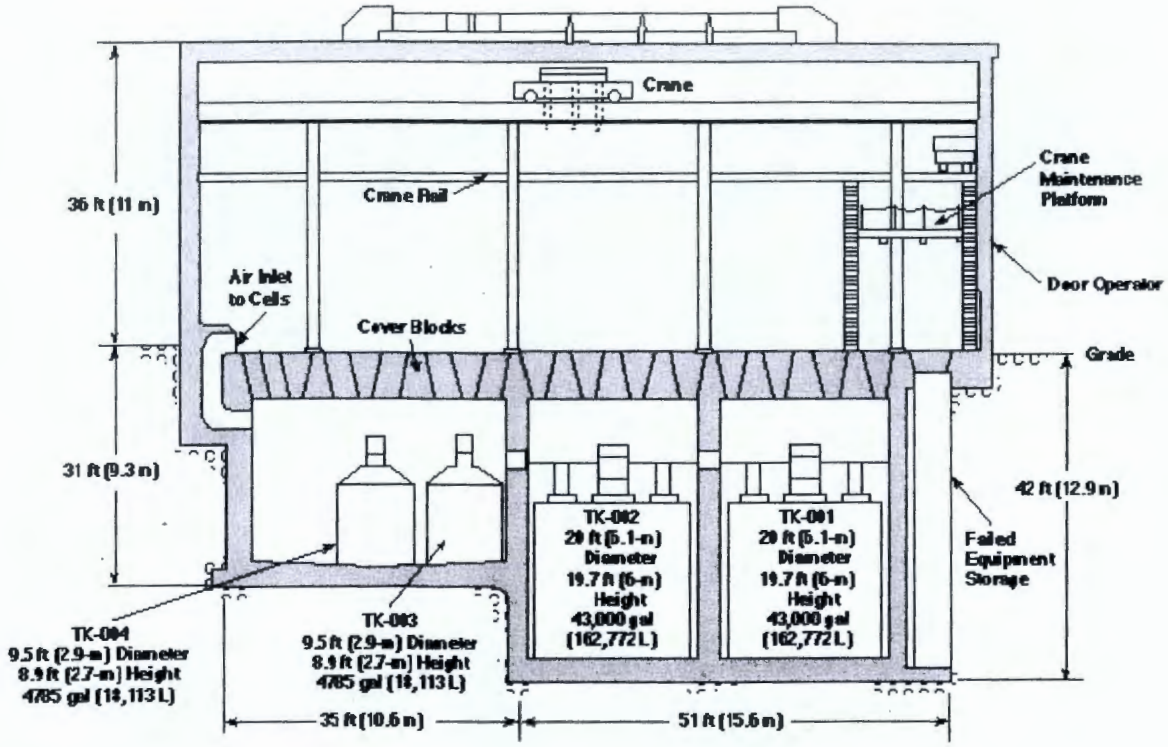




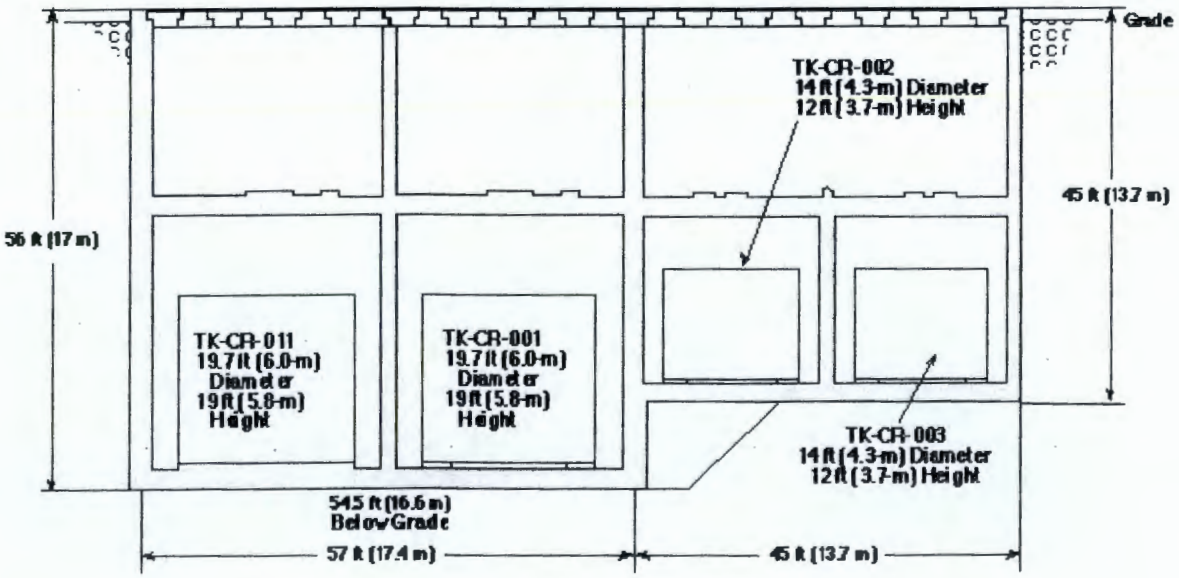
CROSS-SECTIONAL VIEWS

G01060088-1-72

244-AR Vault



244-CR Vault



Single-Shell Tank System

241-A Single-Shell Tank Farm 00080128-19CN
200 East Area Photo Taken 2000

241-AX Single-Shell Tank Farm 01050061-43CN
200 East Area Photo Taken 2000

241-B Single-Shell Tank Farm 00060195-47CN
200 East Area Photo Taken 2000

241-BX Single-Shell Tank Farm 00060195-51CN
200 East Area Photo Taken 2000

Single-Shell Tank System

241-BY Single-Shell Tank Farm
200 East Area

00060195-52CN
Photo Taken 2000

241-C Single-Shell Tank Farm
200 East Area

01050061-30CN
Photo Taken 2000

241-S Single-Shell Tank Farm
200 East Area

0040208-18CN
Photo Taken 2000

241-SX Single-Shell Tank Farm
200 East Area

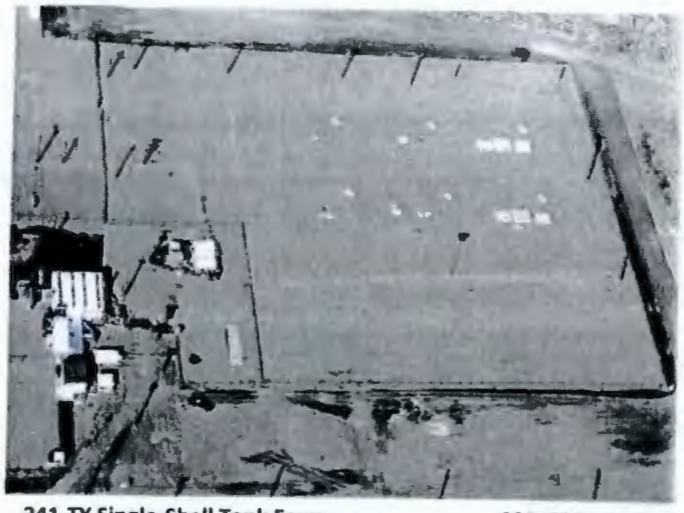
00040208-17CN
Photo Taken 2000

241-T Single-Shell Tank Farm
200 West Area

00040208-22cn
(Photo Taken 2000)

241-TX Single-Shell Tank Farm
200 West Area

00040208-20
(Photo Taken 200



241-TY Single-Shell Tank Farm
200 West Area

00040208-21CN
Photo Taken 2000

241-U Single-Shell Tank Farm
200 West Area

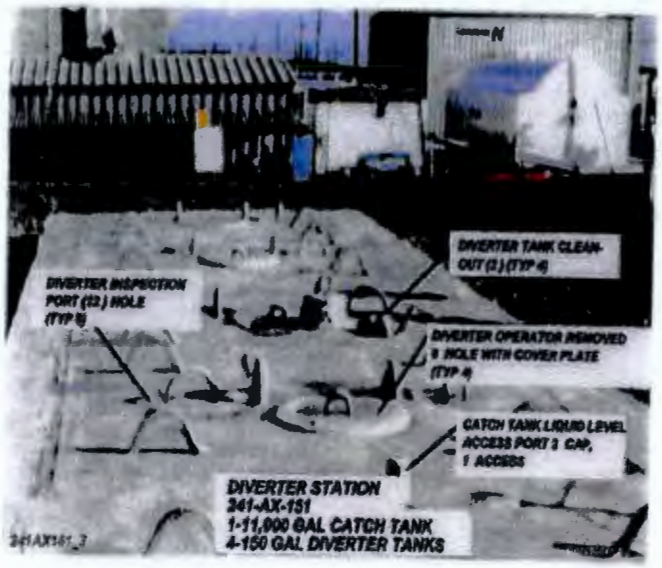
00040208-19CN
Photo Taken 2000

244-CR Vault

8704135-14CN
Photo Taken 1987

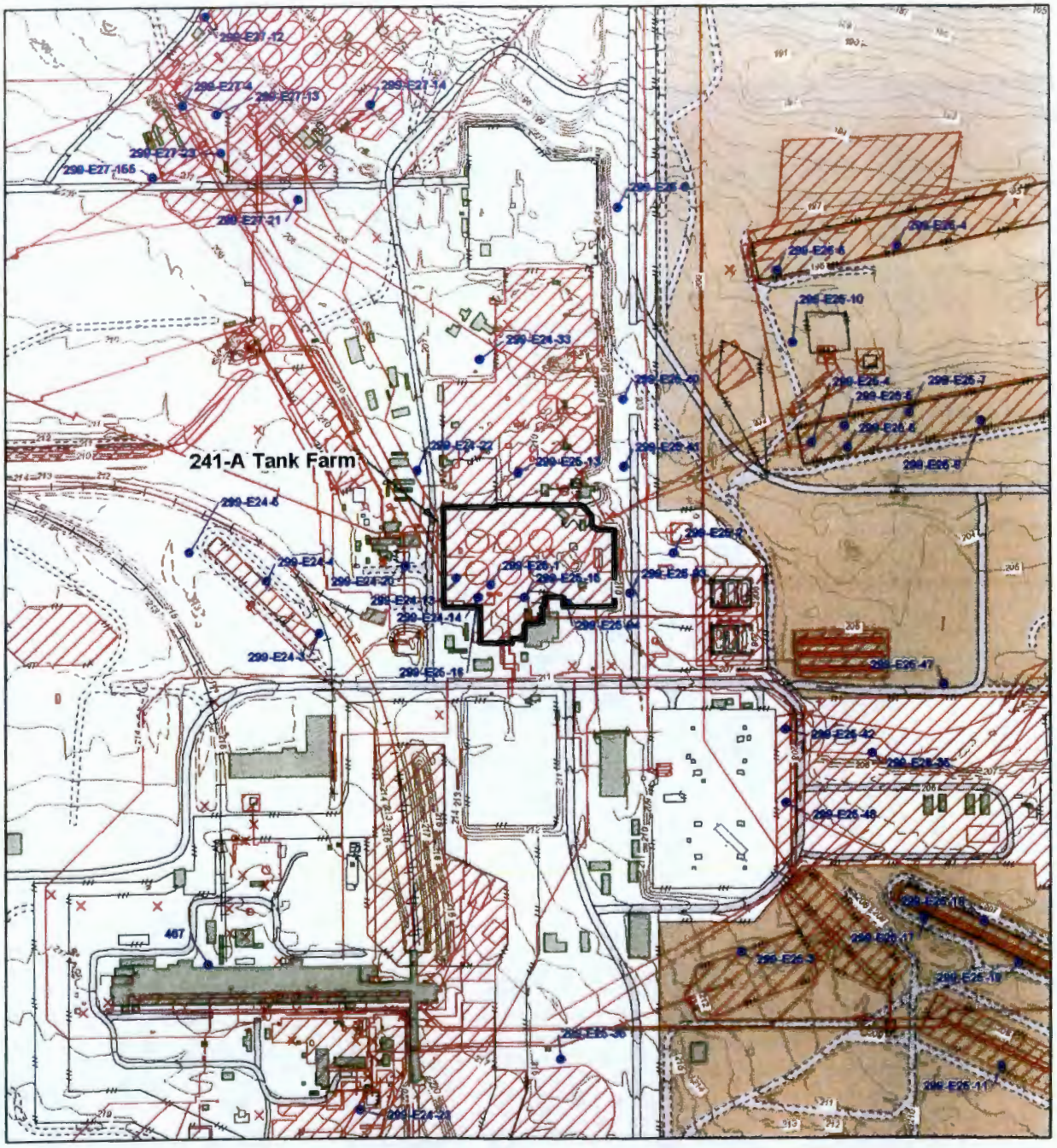
244-AR Vault

8704135-16CN
Photo Taken 1987



241-AX-151 Catch Tank

G01090041.2



241-A Tank Farm

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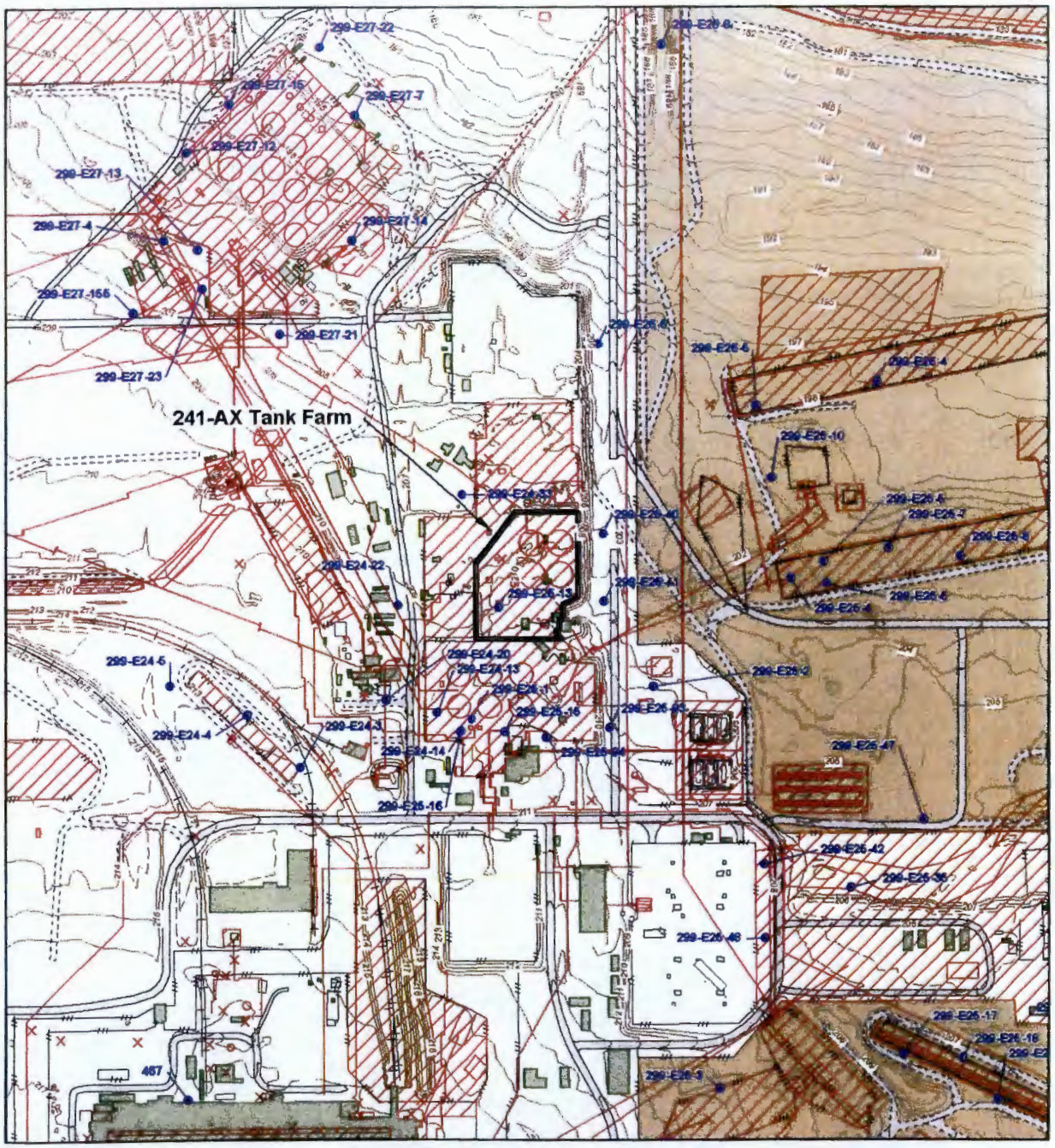
Hanford Site

Unit Location

- TSD Unit Boundary
- DOE Operating Areas
- Hanford Facility
- Injection and Withdrawal Wells
- Contours at 1 Meter Intervals
- Depression Contours
- SWMUs and Known Releases
- Linear SWMUs and Known Releases
- Spot SWMUs and Known Releases
- Buildings
- Structures
- Concrete
- Major Roads
- Service Roads
- Railroads
- Fences

Meters: 0 50 100 150 200
Feet: 0 100 200 400 600

O:\Projects\2005\RCRA_TSD\050620_SingleShellTankFarms_ThompsonMaps\050705_241ATankFarm_LineDwg_8-5x11_Rev1.mxd - 7/9/2008 @ 11:31:50 AM



241-AX Tank Farm

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Hanford Site

Unit Location

- TSD Unit Boundary
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- Hanford Facility
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- Contours at 1 Meter Intervals
- Depression Contours
- SWMUs and Known Releases
- Linear SWMUs and Known Releases
- Spot SWMUs and Known Releases
- Buildings
- Structures
- Concrete
- Major Roads
- Service Roads
- Railroads
- Fences

Meters: 0 50 100 150 200
Feet: 0 100 200 400 600

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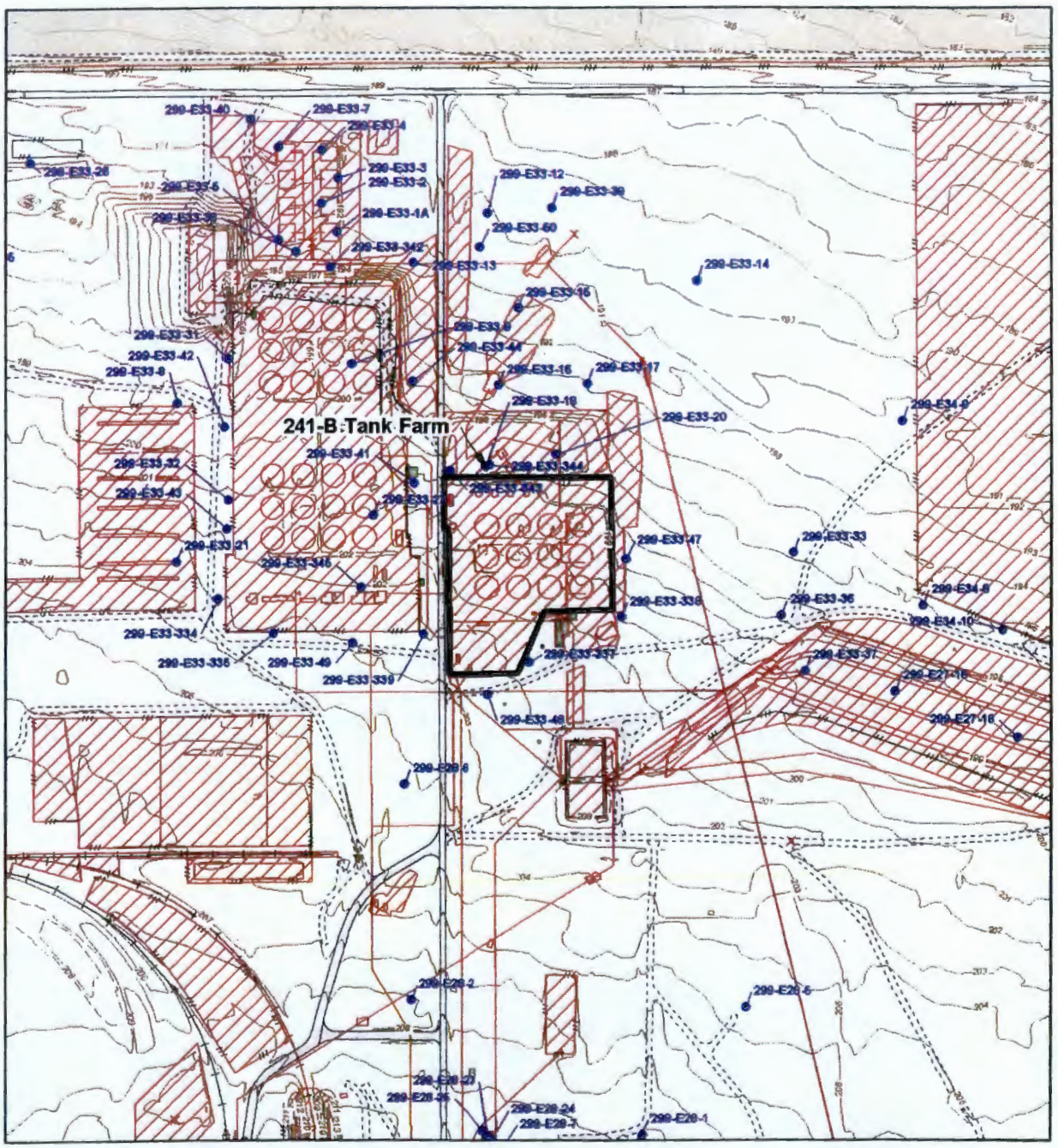

241-B Tank Farm

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Hanford Site

Unit Location

- TSD Unit Boundary
- DOE Operating Areas
- Hanford Facility
- Injection and Withdrawal Wells
- Contours at 1 Meter Intervals
- Depression Contours
- SWMUs and Known Releases
- Linear SWMUs and Known Releases
- Spot SWMUs and Known Releases
- Buildings
- Structures
- Concrete
- Major Roads
- Service Roads
- Railroads
- Fences

Meters: 0 50 100 150 200

Feet: 0 100 200 400 600

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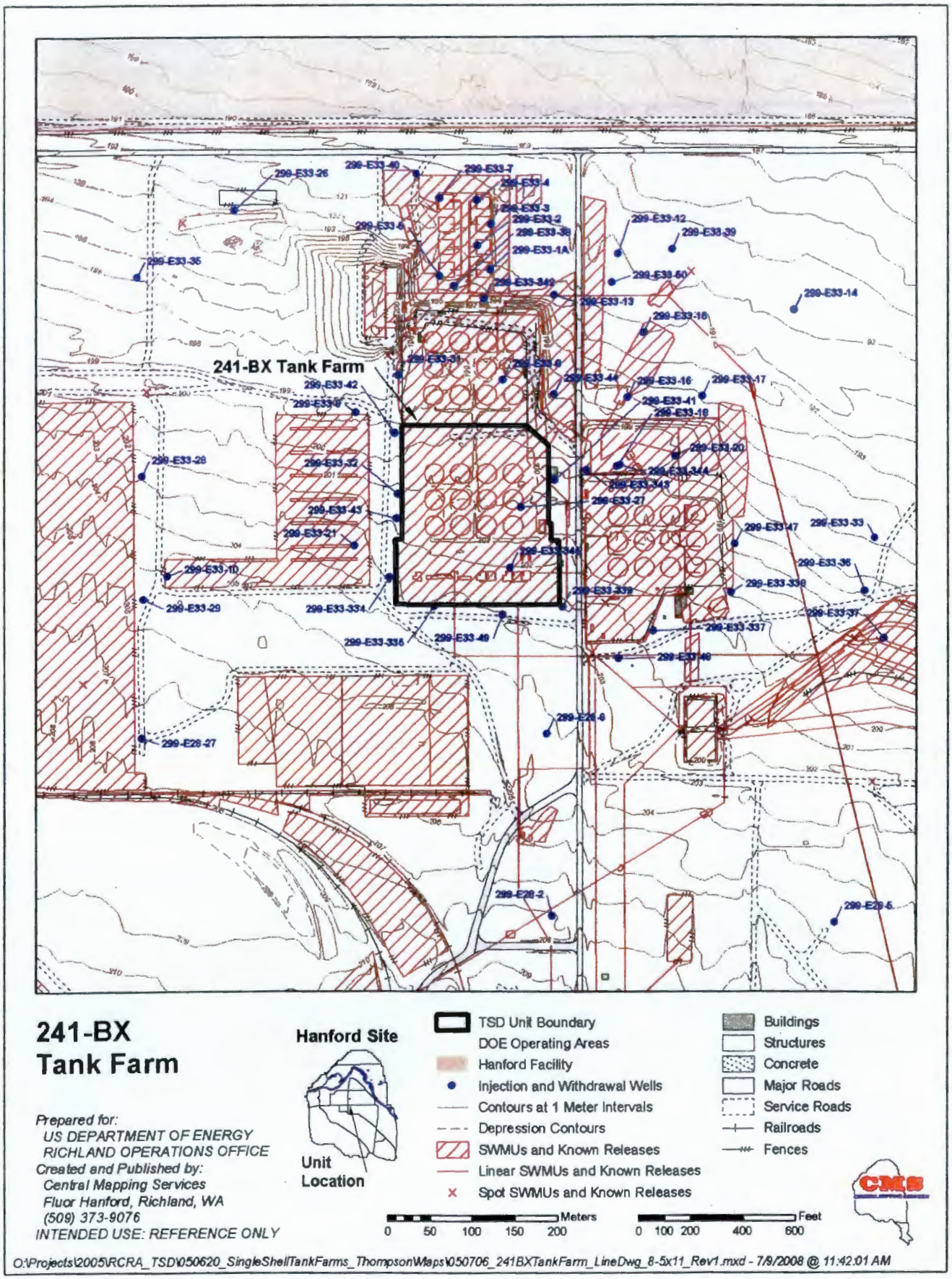
241-BX Tank Farm
299-E33-26
299-E33-40
299-E33-7
299-E33-4
299-E33-3
299-E33-2
299-E33-38
299-E33-1A
299-E33-6
299-E33-36
299-E33-349
299-E33-12
299-E33-39
299-E33-50
299-E33-13
299-E33-14
299-E33-16
299-E33-31
299-E33-8
299-E33-44
299-E33-42
299-E33-9
299-E33-41
299-E33-17
299-E33-18
299-E33-28
299-E33-32
299-E33-20
299-E33-344
299-E33-343
299-E33-27
299-E33-43
299-E33-21
299-E33-47
299-E33-33
299-E33-34X
299-E33-10
299-E33-36
299-E33-338
299-E33-29
299-E33-334
299-E33-37
299-E33-337
299-E33-335
299-E33-49
299-E33-48
299-E28-6
299-E28-27
299-E28-2
299-E28-5
Hanford Site
Unit Location
TSD Unit Boundary
DOE Operating Areas
Hanford Facility
Injection and Withdrawal Wells
Contours at 1 Meter Intervals
Depression Contours
SWMUs and Known Releases
Linear SWMUs and Known Releases
Spot SWMUs and Known Releases
Buildings
Structures
Concrete
Major Roads
Service Roads
Railroads
Fences
Meters
0 50 100 150 200
Feet
0 100 200 400 600
CMS
241-BX
Tank Farm
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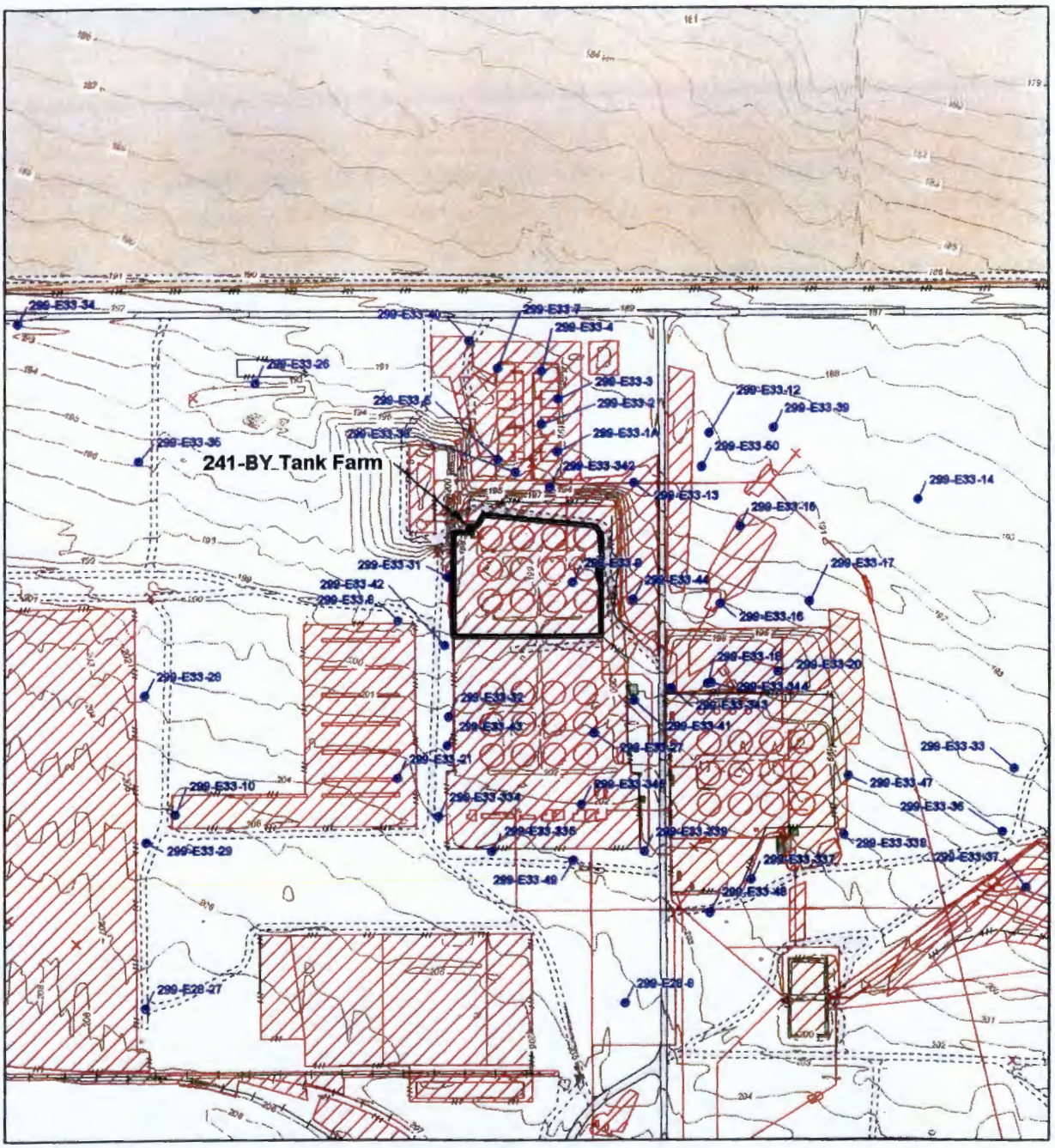

241-BY Tank Farm

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Hanford Site

Unit Location

- TSD Unit Boundary
- DOE Operating Areas
- Hanford Facility
- Injection and Withdrawal Wells
- Contours at 1 Meter Intervals
- Depression Contours
- SWMUs and Known Releases
- Linear SWMUs and Known Releases
- Spot SWMUs and Known Releases
- Buildings
- Structures
- Concrete
- Major Roads
- Service Roads
- Railroads
- Fences

Meters: 0 50 100 150 200
Feet: 0 100 200 400 600

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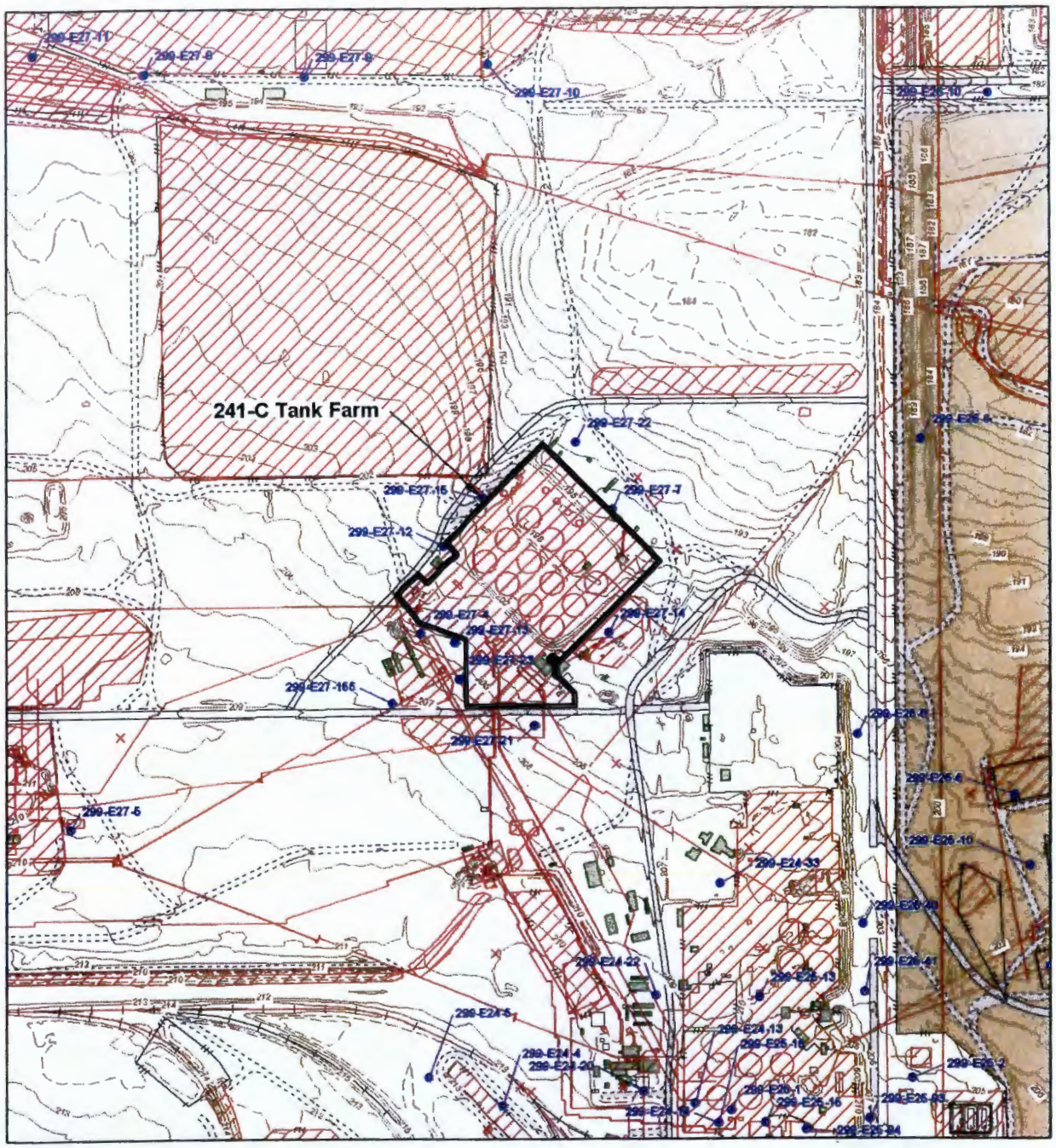

241-C Tank Farm

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Hanford Site

Unit Location

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- Hanford Facility
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- Contours at 1 Meter Intervals
- Depression Contours
- SWMUs and Known Releases
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- Buildings
- Structures
- Concrete
- Major Roads
- Service Roads
- Railroads
- Fences

Meters: 0 50 100 150 200

Feet: 0 100 200 400 600

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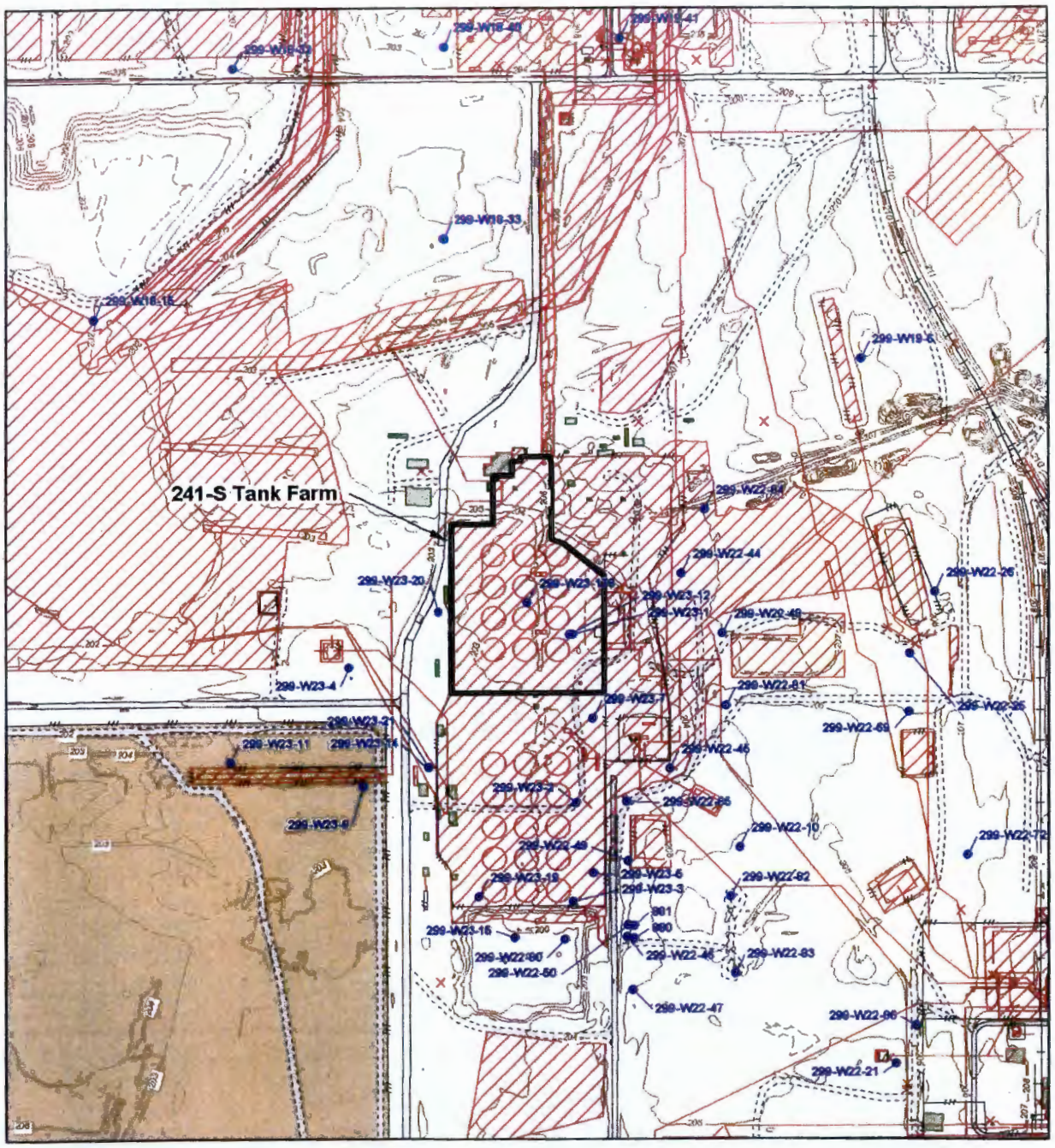

241-S Tank Farm

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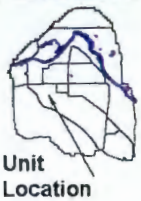
Hanford Site



Unit Location

- TSD Unit Boundary
- DOE Operating Areas
- Hanford Facility
- Injection and Withdrawal Wells
- Contours at 1 Meter Intervals
- Depression Contours
- SWMUs and Known Releases
- Linear SWMUs and Known Releases
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- Buildings
- Structures
- Concrete
- Major Roads
- Service Roads
- Railroads
- Fences

Meters: 0 50 100 150 200
Feet: 0 100 200 400 600

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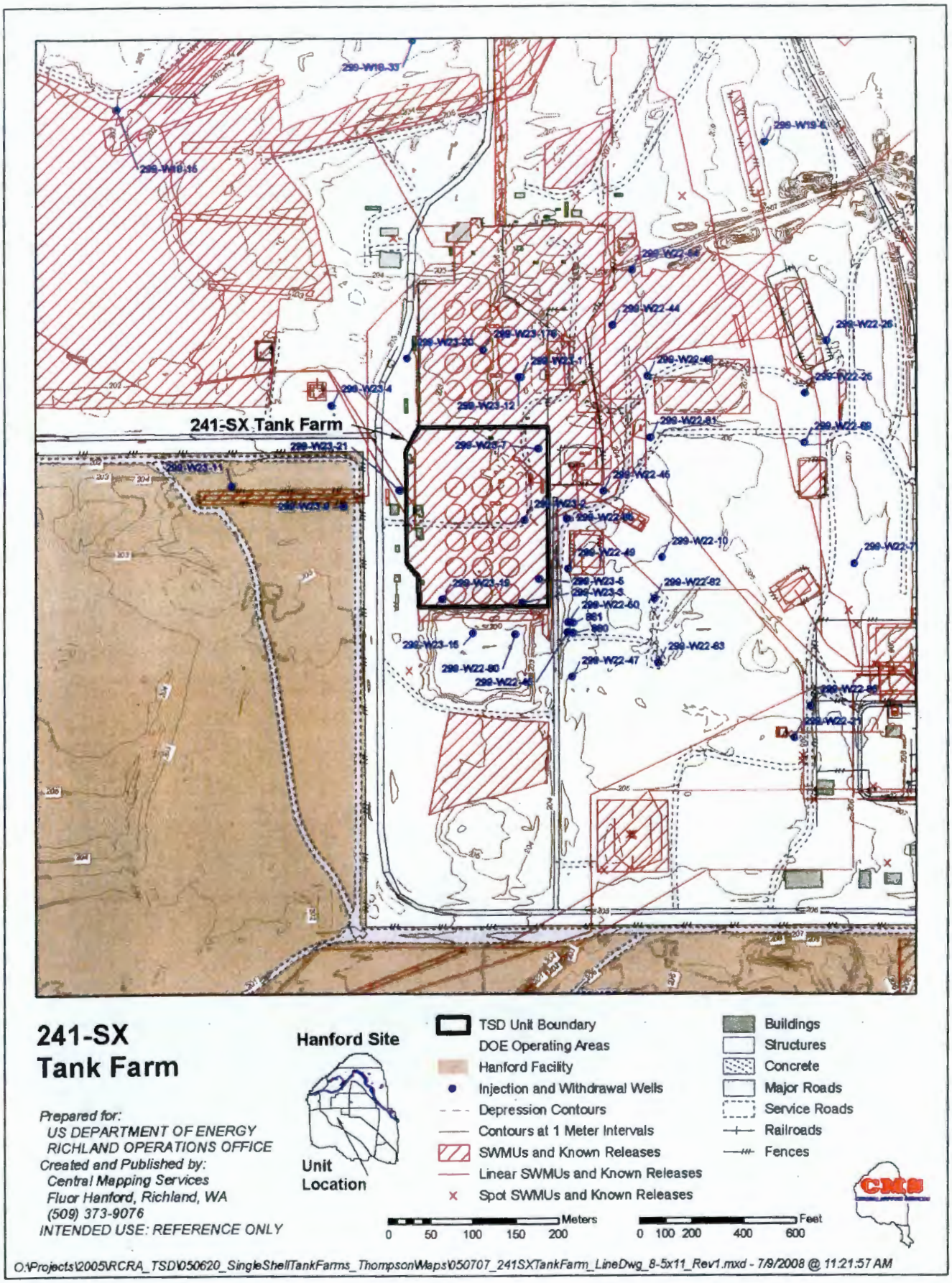
241-SX Tank Farm
241-SX
Tank Farm
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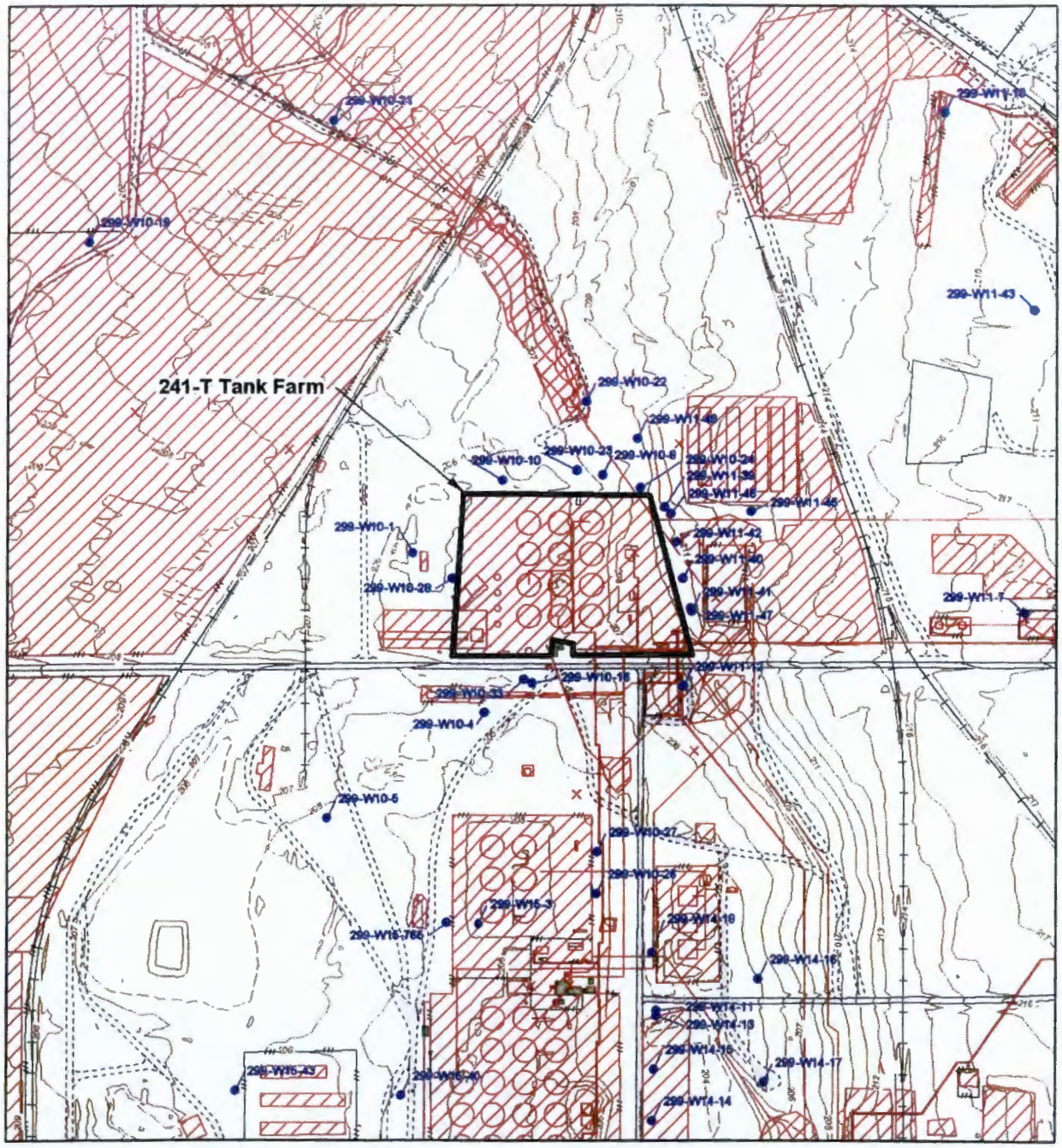
Hanford Site
Unit Location
TSD Unit Boundary
DOE Operating Areas
Hanford Facility
Injection and Withdrawal Wells
Depression Contours
Contours at 1 Meter Intervals
SWMUs and Known Releases
Linear SWMUs and Known Releases
Spot SWMUs and Known Releases
Buildings
Structures
Concrete
Major Roads
Service Roads
Railroads
Fences
Meters
0 50 100 150 200
Feet
0 100 200 400 600
O:\Projects\2005\RCRA_TSD\050620_SingleShellTankFarms_ThompsonMaps\050707_241SXTankFarm_LineDwg_8-5x11_Rev1.mxd - 7/9/2008 @ 11:21:57 AM



241-T Tank Farm

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Hanford Site

Unit Location

- TSD Unit Boundary
- DOE Operating Areas
- Hanford Facility
- Injection and Withdrawal Wells
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- Depression Contours
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- Service Roads
- Railroads
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Meters: 0 50 100 150 200
Feet: 0 100 200 400 600

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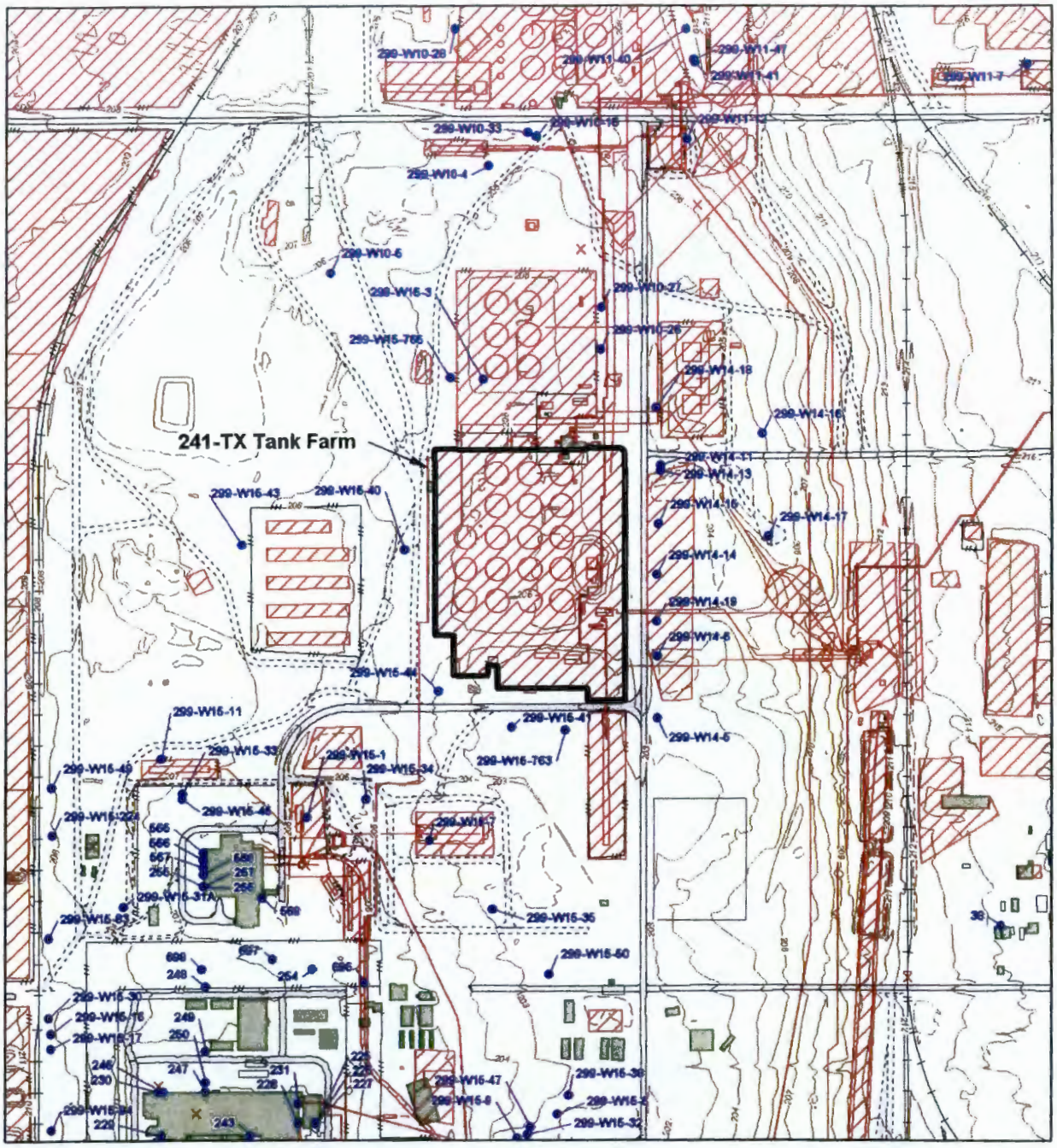

241-TX Tank Farm

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Hanford Site

Unit Location

- TSD Unit Boundary
- DOE Operating Areas
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- Injection and Withdrawal Wells
- Contours at 1 Meter Intervals
- Depression Contours
- SWMUs and Known Releases
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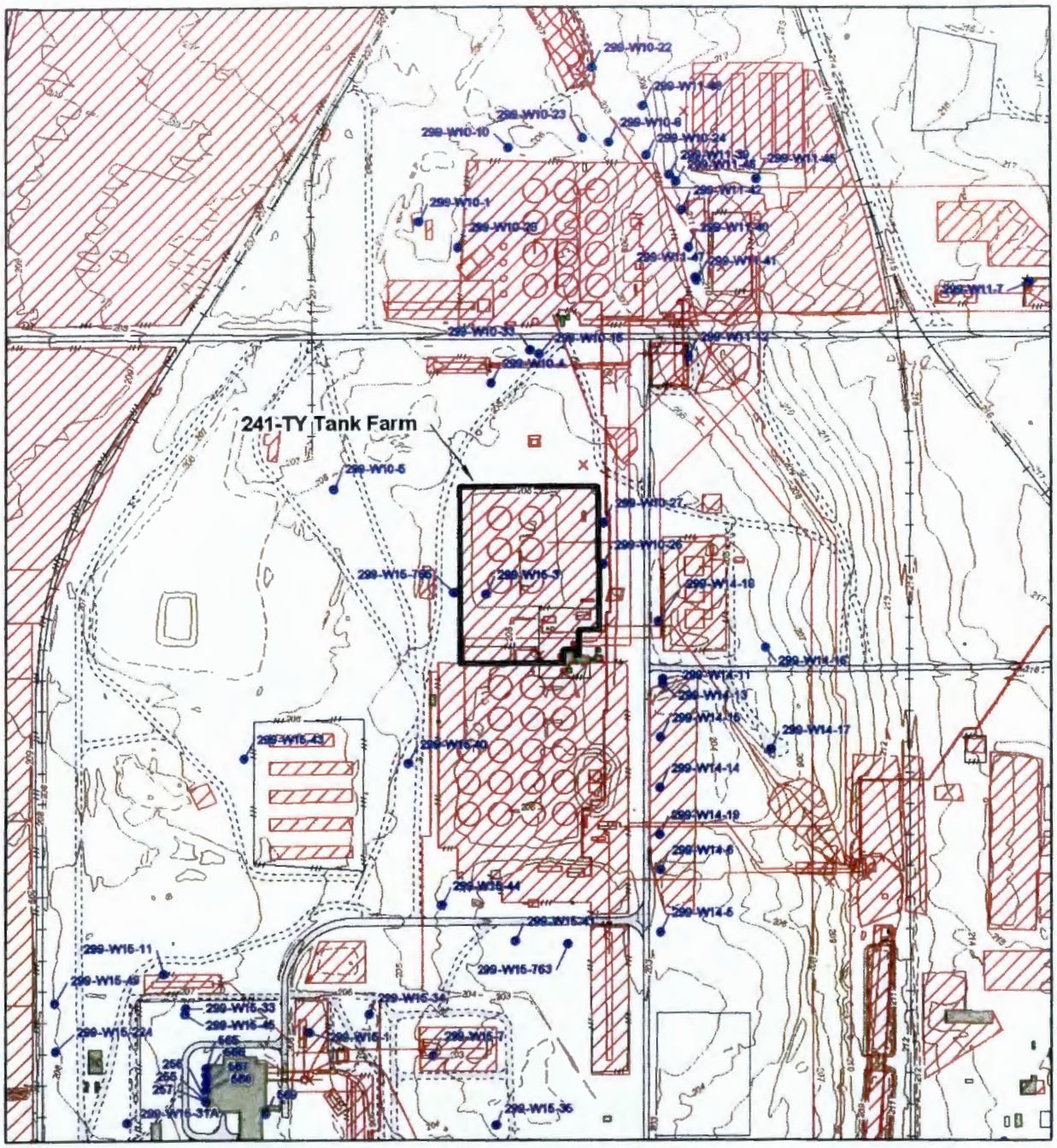
- Major Roads
- Service Roads
- Railroads
- Fences

Meters: 0 50 100 150 200
Feet: 0 100 200 400 600

O:\Projects\2005\RCRA_TSD\050620_SingleShellTankFarms_Thompson\Maps\050707_241TXTankFarm_LineDwg_8-5x11_Rev1.mxd - 7/9/2008 @ 1:25:24 PM



241-TY Tank Farm

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Hanford Site

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- Service Roads
- Railroads
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Meters: 0 50 100 150 200
Feet: 0 100 200 400 600

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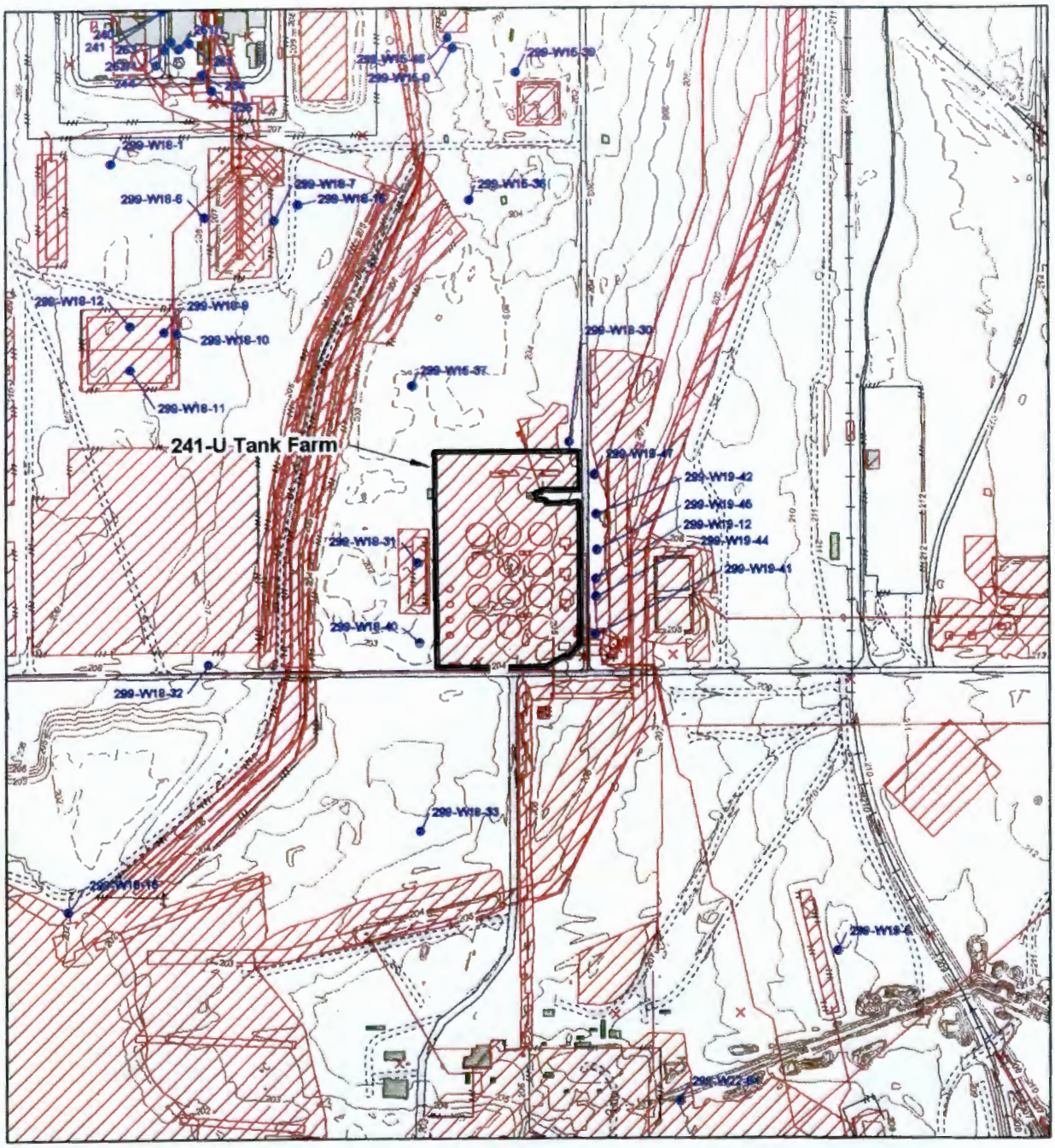

241-U Tank Farm

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Hanford Site

Unit Location

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- Service Roads
- Railroads
- Fences

Meters: 0 50 100 150 200
Feet: 0 100 200 400 600

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The following tables contain lists of SSTs, Waste Transfer Vaults, Inactive Miscellaneous Underground Storage Tanks, Diversion Boxes, Valve Pits, SST Flush Pits, and SST Transfer Lines. Excluded from these tables are items that are covered in Hanford Federal Facility Agreement and Consent Order 89-10, Appendix C as amended, that are past practice units as defined in the Tri-Party Agreement, Action Plan, Section 3.2 and are not subject to regulation as a Treatment, Storage, and Disposal (TSD) unit.

Table 1. Single-Shell Tank Summary

Tank Number	Year of Construction	Year Removed from Service[1]	Operating Capacity (Liters)
241-A-101	1954-1955	1980	3,785,400
241-A-102	1954-1955	1980	3,785,400
241-A-103	1954-1955	1980	3,785,400
241-A-104	1954-1955	1975	3,785,400
241-A-105	1954-1955	1963	3,785,400
241-A-106	1954-1955	1980	3,785,400
241-AX-101	1963-1964	1980	3,785,400
241-AX-102	1963-1964	1980	3,785,400
241-AX-103	1963-1964	1980	3,785,400
241-AX-104	1963-1964	1978	3,785,400
241-B-101	1943-1944	1974	1,892,700
241-B-102	1943-1944	1978	1,892,700
241-B-103	1943-1944	1977	1,892,700
241-B-104	1943-1944	1972	1,892,700
241-B-105	1943-1944	1972	1,892,700
241-B-106	1943-1944	1977	1,892,700
241-B-107	1943-1944	1969	1,892,700
241-B-108	1943-1944	1977	1,892,700
241-B-109	1943-1944	1977	1,892,700
241-B-110	1943-1944	1971	1,892,700
241-B-111	1943-1944	1976	1,892,700
241-B-112	1943-1944	1977	1,892,700
241-B-201	1943-1944	1971	208,197
241-B-202	1943-1944	1977	208,197
241-B-203	1943-1944	1977	208,197
241-B-204	1943-1944	1977	208,197
241-BX-101	1946-1947	1972	1,892,700
241-BX-102	1946-1947	1971	1,892,700
241-BX-103	1946-1947	1977	1,892,700
241-BX-104	1946-1947	1980	1,892,700
241-BX-105	1946-1947	1980	1,892,700
241-BX-106	1946-1947	1971	1,892,700
241-BX-107	1946-1947	1977	1,892,700
241-BX-108	1946-1947	1974	1,892,700
241-BX-109	1946-1947	1974	1,892,700
241-BX-110	1946-1947	1977	1,892,700
241-BX-111	1946-1947	1977	1,892,700
241-BX-112	1946-1947	1977	1,892,700

Table 1. Single-Shell Tank Summary

Tank Number	Year of Construction	Year Removed from Service[1]	Operating Capacity (Liters)
241-BY-101	1948-1949	1971	2,839,050
241-BY-102	1948-1949	1977	2,839,050
241-BY-103	1948-1949	1973	2,839,050
241-BY-104	1948-1949	1977	2,839,050
241-BY-105	1948-1949	1974	2,839,050
241-BY-106	1948-1949	1977	2,839,050
241-BY-107	1948-1949	1974	2,839,050
241-BY-108	1948-1949	1972	2,839,050
241-BY-109	1948-1949	1979	2,839,050
241-BY-110	1948-1949	1979	2,839,050
241-BY-111	1948-1949	1977	2,839,050
241-BY-112	1948-1949	1978	2,839,050
241-C-101	1943-1944	1970	1,892,700
241-C-102	1943-1944	1976	1,892,700
241-C-103	1943-1944	1979	1,892,700
241-C-104	1943-1944	1980	1,892,700
241-C-105	1943-1944	1979	1,892,700
241-C-106	1943-1944	1979	1,892,700
241-C-107	1943-1944	1978	1,892,700
241-C-108	1943-1944	1976	1,892,700
241-C-109	1943-1944	1976	1,892,700
241-C-110	1943-1944	1976	1,892,700
241-C-111	1943-1944	1978	1,892,700
241-C-112	1943-1944	1976	1,892,700
241-C-201	1943-1944	1977	208,197
241-C-202	1943-1944	1977	208,197
241-C-203	1943-1944	1977	208,197
241-C-204	1943-1944	1977	208,197
241-S-101	1950-1951	1980	2,839,050
241-S-102	1950-1951	1980	2,839,050
241-S-103	1950-1951	1980	2,839,050
241-S-104	1950-1951	1968	2,839,050
241-S-105	1950-1951	1974	2,839,050
241-S-106	1950-1951	1979	2,839,050
241-S-107	1950-1951	1980	2,839,050
241-S-108	1950-1951	1979	2,839,050
241-S-109	1950-1951	1979	2,839,050
241-S-110	1950-1951	1979	2,839,050
241-S-111	1950-1951	1972	2,839,050
241-S-112	1950-1951	1974	2,839,050

Table 1. Single-Shell Tank Summary

Tank Number	Year of Construction	Year Removed from Service[1]	Operating Capacity (Liters)
241-SX-101	1953-1954	1980	3,785,400
241-SX-102	1953-1954	1980	3,785,400
241-SX-103	1953-1954	1980	3,785,400
241-SX-104	1953-1954	1980	3,785,400
241-SX-105	1953-1954	1980	3,785,400
241-SX-106	1953-1954	1980	3,785,400
241-SX-107	1953-1954	1964	3,785,400
241-SX-108	1953-1954	1962	3,785,400
241-SX-109	1953-1954	1965	3,785,400
241-SX-110	1953-1954	1976	3,785,400
241-SX-111	1953-1954	1974	3,785,400
241-SX-112	1953-1954	1969	3,785,400
241-SX-113	1953-1954	1958	3,785,400
241-SX-114	1953-1954	1972	3,785,400
241-SX-115	1953-1954	1965	3,785,400
241-T-101	1943-1944	1979	1,892,700
241-T-102	1943-1944	1976	1,892,700
241-T-103	1943-1944	1974	1,892,700
241-T-104	1943-1944	1974	1,892,700
241-T-105	1943-1944	1976	1,892,700
241-T-106	1943-1944	1973	1,892,700
241-T-107	1943-1944	1976	1,892,700
241-T-108	1943-1944	1974	1,892,700
241-T-109	1943-1944	1974	1,892,700
241-T-110	1943-1944	1976	1,892,700
241-T-111	1943-1944	1974	1,892,700
241-T-112	1943-1944	1977	1,892,700
241-T-201	1943-1944	1976	208,197
241-T-202	1943-1944	1976	208,197
241-T-203	1943-1944	1976	208,197
241-T-204	1943-1944	1976	208,197
241-TX-101	1947-1948	1980	2,839,050
241-TX-102	1947-1948	1977	2,839,050
241-TX-103	1947-1948	1980	2,839,050
241-TX-104	1947-1948	1977	2,839,050
241-TX-105	1947-1948	1977	2,839,050
241-TX-106	1947-1948	1977	2,839,050
241-TX-107	1947-1948	1977	2,839,050
241-TX-108	1947-1948	1977	2,839,050
241-TX-109	1947-1948	1977	2,839,050
241-TX-110	1947-1948	1977	2,839,050
241-TX-111	1947-1948	1977	2,839,050
241-TX-112	1947-1948	1974	2,839,050
241-TX-113	1947-1948	1971	2,839,050
241-TX-114	1947-1948	1971	2,839,050
241-TX-115	1947-1948	1977	2,839,050
241-TX-116	1947-1948	1969	2,839,050
241-TX-117	1947-1948	1969	2,839,050
241-TX-118	1947-1948	1980	2,839,050

Table 1. Single-Shell Tank Summary

Tank Number	Year of Construction	Year Removed from Service[1]	Operating Capacity (Liters)
241-TY-101	1951-1952	1973	2,839,050
241-TY-102	1951-1952	1979	2,839,050
241-TY-103	1951-1952	1973	2,839,050
241-TY-104	1951-1952	1974	2,839,050
241-TY-105	1951-1952	1980	2,839,050
241-TY-106	1951-1952	1959	2,839,050
241-U-101	1943-1944	1960	1,892,700
241-U-102	1943-1944	1979	1,892,700
241-U-103	1943-1944	1978	1,892,700
241-U-104	1943-1944	1951	1,892,700
241-U-105	1943-1944	1978	1,892,700
241-U-106	1943-1944	1977	1,892,700
241-U-107	1943-1944	1980	1,892,700
241-U-108	1943-1944	1979	1,892,700
241-U-109	1943-1944	1978	1,892,700
241-U-110	1943-1944	1975	1,892,700
241-U-111	1943-1944	1980	1,892,700
241-U-112	1943-1944	1970	1,892,700
241-U-201	1943-1944	1977	208,197
241-U-202	1943-1944	1977	208,197
241-U-203	1943-1944	1977	208,197
241-U-204	1943-1944	1977	208,197

[1]The last year the Tank was capable of receiving waste; actual date of last waste receipt might have been earlier.

Table 2. Waste Transfer Vaults

Tank Number	Year of Construction	Year Removed from Service[1]	Operating Capacity (Liters)
244-AR-001	1976	NA	162,970
244-AR-002	1976	NA	162,970
244-AR-003	1976	NA	17,813
244-AR-004	1976	NA	17,813
244-CR-001	1946	1988	189,500
244-CR-002	1946	1988	56,850
244-CR-003	1946	1988	56,850
244-CR-011	1946	1988	189,500

[1]The last year the Tank was capable of receiving waste; actual date of last waste receipt might have been earlier.
N/A = information not available

Table 3. Inactive Miscellaneous Underground Storage Tanks

Tank Number	Year of Construction	Year Removed from Service	Operating Capacity (Liters)
241-A-302-A	1954	2005	31,941
241-A-350	1978	2005	2,937
241-A-417	1959	2003	167,315
244-A DCRT	1975	2005	67,380
241-AX-151-CT	1960	1985	41.690
241-AX-152	1962	2001	41,639
244-BX-DCRT	1980	2005	116,885
241-BY-ITS2-Tank-1	1959	1977	10,233
241-ER-311	1954	2005	66,993
241-EW-151-CT	1955	2005	3,030
241-S-304	1991	2005	23,848
244-S-DCRT	1987	2005	85,644
241-TX-302C	1945-1947	2005	61,941
244-TX-DCRT	1980	2005	116,855
241-U-301-B	1944-1949	2005	136,274
241-UX-302A	1945-1947	2005	66,941
244-U-DCRT	1987	Never in service	116, 855

[1]The last year the Tank was capable of receiving waste; actual date of last waste receipt might have been earlier.

Table 4. Single Shell Tank System Diversion Box Matrix

Unit	SSTs	Diversion box	Construction date
A	241-A-101 through 241-A-106	241-A-151	
		241-A-152 (inactive)	1955
	241-AX-101 through 241-AX-104	241-A-153 (inactive)	1966
		241-AR-151	
		241-AX-151 (inactive)	1963
		241-AX-152	1963
		241-AX-153	
		241-AX-155	1983
B	241-B-101 through 241-B-112	241-B-151 (inactive)	1951
	241-B-201 through 241-B-204	241-B-152 (inactive)	1951
	241-BX-101 through 241-BX-112	241-B-153 (inactive)	1951
		241-B-252 (inactive)	1951
		241-BR-152 (inactive)	1952
		241-BX-153 (inactive)	1951
		241-BXR-151 (inactive)	1952
		241-BXR-152 (inactive)	1952
		241-BXR-153 (inactive)	1952
		241-BYR-152 (inactive)	1952
		241-BYR-153 (inactive)	1952
		241-BYR-154 (inactive)	1952
		242-B-151 (inactive)	N/A
C	241-C-101 through 241-C-112	241-C-151 (inactive)	1951
	241-C-201 through 241-C-204	241-C-152 (inactive)	1951
		241-C-153 (inactive)	1951
		241-C-252	1951
		241-CR-151 (inactive)	1952
		241-CR-153 (inactive)	1952
		241-CR-152 (inactive)	1952
ER		241-ER-151	1952
		241-ER-152	
		241-ER-153	
S	241-S-101 through 241-S-112	241-S-151	
	241-SX-101 through 241-SX-115	241-S-152	1975
		241-SX-151	1953
		241-SX-152	1957
T	241-T-101 through 241-T-112	241-T-151	1950
	241-T-201 through 241-T-204	241-T-152	1951
	241-TX-101 through 241-TX-118	241-T-153	1951
	241-TY-101 through 241-TY-106	241-T-252	1951
		242-T-151	1951
		241-TR-152	1951
		241-TR-153	1952
		241-TX-152	
		241-TX-153	1951
		241-TX-154	
		241-TX-155	
		241-TXR-151	1951
		241-TXR-152	1952
		241-TXR-153	1952
		241-TY-153	1952

Table 4. Single Shell Tank System Diversion Box Matrix

Unit	SSTs	Diversion box	Construction date
U	241-U-101 through 241-U-112	241-U-151	1946
	241-U-201 through 241-U-204	241-U-152	1946
		241-U-153	1951
		241-U-252	1951
		241-UR-151	1951
		241-UR-152	1952
		241-UR-153	1952
		241-UR-154	1952
		241-UX-154	

Table 5. Single Shell Tank Valve Pits

241-A-A		
241-A-B		
241-A-501		
241-AX-A		
241-AX-B		
241-AX-501		
241-AY-501		
241-S-01A	241-T-07 (no pit; covered salt well Caisson)	241-TY-02A (inactive)
241-S-02A	241-T-08 (no pit) (inactive)	241-TY-03A (inactive)
241-S-03A	241-T-09 (no pit; covered salt well Caisson)	241-TY-04A (inactive)
241-S-04A	241-T-110 (no pit; covered salt well Caisson)	241-TY-05 (no pit; covered salt well Caisson) (inactive)
241-S-05A	241-T-111 (no pit; covered salt well Caisson)	241-TY-06 (no pit) (inactive)
241-S-06A	241-T-112 (no pit) (inactive)	241-U-01A (inactive)
241-S-07A	241-T-201 (no pit; covered salt well Caisson)	241-U-01B (inactive)
241-S-08A	241-T-202 (no pit; covered salt well Caisson)	241-U-01C (inactive)
241-S-09A	241-T-203 (no pit; covered salt well Caisson)	241-U-02A
241-S-110A	241-T-204 (no pit; covered salt well Caisson)	241-U-02B
241-S-111A	241-TX-01A (inactive)	241-U-02C
241-S-112A	241-TX-01C (inactive)	241-U-03A
241-S-A	241-TX-01D (inactive)	241-U-03B
241-S-B	241-TX-02A (inactive)	241-U-03C
241-S-C	241-TX-02C (inactive)	241-U-04A (inactive)
241-S-D	241-TX-02D (inactive)	241-U-04B (inactive)
241-SX-01A	241-TX-03A (inactive)	241-U-04C (inactive)
241-SX-02A	241-TX-03C (inactive)	241-U-05A
241-SX-02B	241-TX-03D (inactive)	241-U-05B
241-SX-03A	241-TX-04A (inactive)	241-U-05C
241-SX-03B	241-TX-04C (inactive)	241-U-06A
241-SX-04A	241-TX-04D (inactive)	241-U-06B
241-SX-05A	241-TX-05A (inactive)	241-U-06C
241-SX-05B	241-TX-05C (inactive)	241-U-07A
241-SX-06A	241-TX-05D (inactive)	241-U-07B
241-SX-07A (inactive)	241-TX-06A (inactive)	241-U-07C
241-SX-08A (inactive)	241-TX-06C (inactive)	241-U-08A
241-SX-09A (inactive)	241-TX-06D (inactive)	241-U-08B
241-SX-110A (inactive)	241-TX-07A (inactive)	241-U-08C
241-SX-111A (inactive)	241-TX-07C (inactive)	241-U-09A
241-SX-112A (inactive)	241-TX-07D (inactive)	241-U-09B
241-SX-113A (inactive)	241-TX-08A (inactive)	241-U-09C
241-SX-114A (inactive)	241-TX-08C (inactive)	241-U-110A (inactive)
241-SX-115A (inactive)	241-TX-08D (inactive)	241-U-110B (inactive)
241-SX-A	241-TX-09A (inactive)	241-U-111A
241-SX-B	241-TX-110A (inactive)	241-U-111B
241-T-01A	241-TX-111A (inactive)	241-U-112 (no pit; covered salt well Caisson) (inactive)
241-T-01B	241-TX-112A (inactive)	241-U-201 (inactive)
241-T-01C (inactive)	241-TX-113A (inactive)	241-U-202 (inactive)
241-T-02A (inactive)	241-TX-114A (inactive)	241-U-203 (inactive)
241-T-02B (inactive)	241-TX-115A (inactive)	241-U-204 (inactive)
241-T-02C (inactive)	241-TX-116A (no pit) (inactive)	241-UA
241-T-03A (inactive)	241-TX-117A (inactive)	241-UB
241-T-03B (inactive)	241-TX-118A (inactive)	241-UC
241-T-03C	241-TX-14B (inactive)	241-UD

241-T-04 (no pit; covered salt well Caisson)	241-TX-15B	241-UR-09A
241-T-05 (no pit; covered salt well Caisson) (inactive)	241-TX-15X	241-UR-09B
241-T-06 (no pit) (inactive)	241-TY-01A (inactive)	

Table 6. Single Shell Tank Flush Pits

241-A-A	241-S-A	244-TX-Flush Pit Unknown Number
241-A-B	241-S-B	241-UA
241-AX-A	241-S-C	241-UB
241-AX-B	241-S-D	241-UC
244-BX-Receiver Vault Unknown Number	241-SX-A	241-UD
244-S-Catch Station Unknown Number	241-SX-B	

Table 7. Active 200 East and 200 West Area Transfer Lines

Transfer line identification	Notes	Size		Encasement	Materials	Connection Facility	Connection Facility
		Mm	In.				
4006/4908	L1, V1	102	4	Concrete/double	SSTL, Sch 40	244-AR Vault	241-AX-152
108/837/8649/8901	L1, V1	51	2	Concrete	Sch 40	221-B	244-CR DCRT-U11
814/4002/4028/G026	L1, V1	76	3	Concrete	SSTL A312, 304L	244-AR Vault-T16, Unknown	PUREX
833/8618/8612/809	L1, V1	76	3	Concrete	SSTL A312, 304L	221-B	244-AR Vault
834/8615/8653/818	L1, V1	76	3	Concrete	SSTL A312, 304L	221-B	244-AR Vault-T10
9653/243	L1, V1	76	3	Concrete	Sch 10 SSTL	221-B	241-ER-151-L7
D088	L1, V1	76	3	Concrete	SSTL A312, 304L	PUREX	241-A-151
D020	L1, V1	76	3	Concrete	SSTL A312, 304L	PUREX-U3, U4	241-A-151-U19
D040	L1, V1	76	3	Concrete	SSTL A312, 304L	PUREX	241-A-151-U27
D070	L1, V1	76	3	Concrete	SSTL A312, 304L	PUREX	241-A-151-U26
D149	L1, V1	76	3	Concrete	SSTL A312, 304L	PUREX	241-A-151-U18
D186	L1, V1	76	3	Concrete	SSTL A312, 304L	PUREX	241-A-151-U5
E006	L1, V1	76	3	Concrete	SSTL A312, 304L	PUREX-E5	241-A-151-U24
E167	L1, V1	76	3	Concrete	SSTL A312, 304L	PUREX	241-A-151-U23
F241	L1, V1	76	3	Concrete	SSTL A312, 304L	PUREX	241-A-151-U21
F274	L1, V1	76	3	Concrete	SSTL A312, 304L	PUREX-F18	241-A-151-U9
F377	L1, V1	76	3	Concrete	SSTL A312, 304L	PUREX	241-A-151-U14
F429	L1, V1	76	3	Concrete	SSTL A312, 304L	PUREX	241-A-151-U13
F719	L1, V1	76	3	Concrete	SSTL A312, 304L	PUREX	241-A-151-U20
F791	L1, V1	76	3	Concrete	SSTL A312, 304L	PUREX	241-A-151-U8
G057	L1, V1	76	3	Concrete	SSTL A312, 304L	PUREX	241-A-151-U17
G180	L1, V1	51	2	Concrete	SSTL A312, 304L	PUREX	241-A-151-U11
G212	L1, V1	76	3	Concrete	SSTL A312, 304L	PUREX-G8	241-A-151-U16
LLW4002	L1, V1	51	2	Direct buried	SSTL A312, 304L	241-ER-152	221-B
LLW4076	L1, V1	51	2	Direct buried	SSTL A312, 304L	241-ER-152	221-B
M044	L1, V1	76	3	Concrete	SSTL A312, 304L	PUREX	241-A-151-U10
M045	L1, V1	76	3	Concrete	SSTL A312, 304L	PUREX	241-A-151-U22
SN244	L1, V1	76	3	Concrete	SSTL A312, 304L	244-CR Vault-U13,CT3	241-ER-153-9
U039	L1, V1	51	2	Concrete	SSTL A312, 304L	PUREX	241-A-151-U6
U136	L1, V1	51	2	Concrete	SSTL A312, 304L	PUREX	241-A-151-U7
V021	L1, V1	76	3	Concrete/double	SSTL A312, Sch 40	241-A-151-L25	241-AW-A-L12
V714	L1, V1	76	3	Double	Sch 40, SSTL	241-AX-155-10	241-AR-151-1
V714	L1, V1	76	3	Double	SSTL A312, 304L	PUREX-F16	241-AR-151-2
SL118	L1, V1	NA	NA	Direct buried	NA	241-S-D-R10	241-SX-B-R3
SN7624	L, V1	51	2	Concrete	CS A53, Sch 40	244-T-111	241-T-110
SN7624	L, V1	51	2	Concrete	CS A53, Sch 40	244-TX-I	241-T-111
V657	L2, V1	76	3	Direct buried	SSTL	241-T-151-L1	241-T-153-U1
V658	L2, V1	76	3	Direct buried	SSTL	241-T-151-L2	241-T-153-U8
V730	L, V1	89	3.5	Concrete	11 Ga 18-8 SSTL	221-T	241-TX-154-U1
V732	L, V1	89	3.5	Concrete	11 Ga 18-8 SSTL	221-T	241-TX-154-U2
V734	L, V1	89	3.5	Concrete	11 Ga 18-8 SSTL	221-T	241-TX-154-U4
V735	L, V1	89	3.5	Concrete	11 Ga 18-8 SSTL	221-T	241-TX-154-U5
V737	L, V1	89	3.5	Concrete	11 Ga 18-8 SSTL	221-T	241-TX-154-U7
V738	L, V1	89	3.5	Concrete	11 Ga 18-8 SSTL	221-T	241-TX-154-U8

Table 8. Inactive Transfer Lines

Farm	Transfer line identifier	Connection facility	Connection facility
A	SL-104	241-A-A	241-A-B
A	SN-216	241-A-B, R-16	244-A, P-9
A	SN-215	241-A-A, L-16	244-A, P-7
A	SN-232	244-A, P-3	241-ER-153,P-3
A	SN-234	244-A, P-2	241-ER-153,P-5
A	EFD-02	241-A-401 Condensate Building	241-A-401-Diversion Caisson
A	EFD-92	241-A-401 Condensate Building	241-A-401-Diversion Caisson
A	V004	241-A-152	241-A-151
A	V005	241-A-152	241-A-151
A	V006	241-A-152	241-A-151
A	V006	241-A-152	241-A-151
A	V006	241-A-152	241-A-151
A	V006	241-A-152	241-A-151
A	V007	241-A-152	241-A-151
A	V007	241-A-152	241-A-151
A	V021	241-A-151-L-25	241-AN-Valve Pit-L12
A	V007	241-A-152	241-A-151
A	V050	241-A-152	241-C-104
A	V051	241-A-152	241-C-104
A	153A	241-A-101	241-A-153
A	400/T029	202-A	241-A-B-Valve Pit-R12
A	404/V-029/4004/G34/4029	202-A	241-A-A-Valve Pit-L12
A	801	244-AR-T-6	241-A-153-A
A	805	244-AR-T-13	241-A-153-B
A	4106	241-AX-151	241-A-106
A	4105	241-AX-151	241-A-105
A	4101	241-AX-151	241-A-101
A	4102	241-AX-151	241-A-102
A	4104	241-AX-151	241-A-104
A	4103	241-AX-151	241-A-103
A	SN-202	241-A-B-R11	241-A-106-06C-Nozzle A
A	SN-205	241-A-B-Valve Pit-R14	241-A-103-03C-A
A	SN-207	241-A-A-L14	241-A-101-01B-A
A	F-562	241-F505	241-A-417
A	SN-233	244-A,P-4	241-ER-153, 4
A	DR-300	207-A	241-A-350
A	PW-481/SN-234	241-A-350	242-A,14
A	Drain-316	Clean Out Box-A-8	Drain-301
A	Drain-304	Clean Out Box-A-9	Drain-301
A	V044	241-A-152-10	241-A-104-04A
A	V045	241-A-152-11	241-A-104-04A
A	V046	241-A-152-12	241-A-105-05B
A	V047	241-A-152-13	241-A-105-05B
A	V039	241-A-152-5	241-A-101-01A
A	V038	241-A-152-6	241-A-101-01A
A	SI-107	241-A-A	241-A-101-01H
A	F-100	214-A-417, 22	241-AX-501, U-1
A	V028	241-A-151	241-A-302A
A	V027	241-A-151,U-4	241-302-A
A	V023	241-A-151,L-23	241-AW-B, R-11
A	V041	241-A-152-3	241-A-102-02A
A	V040	241-A-152-4	241-A-102
A	05C	241-A-105-05C-B	241-A-103 & 241-A-153-U2
A	05D	241-A-105-05D-U1	241-A-153-L2
A	05B	241-A-105-05B-U1	241-A-103-03A-U4
A	SL-102	241-A-106-06D-A	241-A-B-R7

Table 8. Inactive Transfer Lines

Farm	Transfer line identifier	Connection facility	Connection facility
A	V048	241-A-106	241-A-152-14
A	V049	241-A-106	241-A-152-15
A	V032	241-A-106-A-U1	241-A-152-7
A	V043	241-A-103	241-A-152-1
A	V042	241-A-103	241-152-2
A	SN-205	241-A-103-03C-A	241-A-B-R14
A	03C	241-A-103-03C-U1	241-A-153-L7
A	03A	241-A-103-03A-U7	241-A-153-U6
A	03B	241-A-103-03B-U1	241-A-153-L12
A	SL-106	241-A-B-R10	241-A-102-02D-A
A	SL-107	241-A-01H-A	241-A-A-L5
A	SN-235	241-A-102-02B-2	Capped off
A	Flush Line	241-A-A-Valve Pit L6, L8	241-A-A-Flush Pit
A	Flush line	241-A-B-Flush Pit	241-A-102-02B-4
A	Flush line	241-A-B-R17	241-A-B-Flush Pit
A	Flush Line	241-A-A-Flush Pit	241-A-A-Valve Pit L17
A	Flush Line	241-A-B-Valve Pit-R17	241-A-B-Valve Pit-R6, R8
A	01C	241-A-101-01C-U1	241-A-153-L9
A	01A	241-A-101-01A-U7	241-A-153-U5
A	01B	241-A-101-01B-U1	241-A-153-L10
A	SL-102	241-A-Valve Pit-R7	Clean Out Box-A-6
A	SL-105	241-A-103-03D-A	241-A-B-R5
A	SL-106	241-A-Valve Pit-B-R10	241-A-102-Side Wall
A	Drain-341	Clean Out Box-A-1	Drain-301
A	Drain-309	Drain-301	Clean Out Box-A-4
A	Drain-308	Drain-301	Clean Out Box-A-3
A	V052	241-A-152-9	Capped
A	V061	241-A-152-L6	Capped
A	V058	241-A-152-A	Nozzle A
A	V059	241-A-152-B	Nozzle B
A	V060	241-A-152-C	241-A-302B
A	06C	241-A-106-06C-U1	241-A-153-L1
A	06A	241-A-106-06A-U7	241-A-153-U3
A	SN-201/214	241-A-A, L-1	241-AX-A, Li
A	SN-219	241-A-B, R-2	241-AW-B, R-2
A	Sn-650	241-A-B, R-15	241-AP-102
A	V022	241-A-151, L-24	241-AW-B, R-12
A	SN-200/213	241-A-B, R-1	241-AX-B,R-1
A	DR-310	241-A-B	241-A-350
A	SN-204	241-A-A, L-19	241-A-B, R-19
A	DR-311	241-A-A	241-A-350,C
A	06B	241-A-106-06B-U1	241-A-153-LS
A	Drain-315	Clean Out Box-A-10	Drain-317
A	Drain-317	Clean Out Box-A-11	Drain-301
A	04C	241-A-104-04C-U1	241-A-153-L3
A	04B	241-A-104-04B-U1	241-A-153-L4
A	05B	241-A-105-05B-U1	241-A-153-L6
A	Unknown (02C)	241-A-102-02C-U1	241-A-153-L8
A	Overflow	241-A-106-Side Wall	241-A-350-Side Wall
A	Flush Line	241-A-B-R8 & R6	241-A-B-Flush Pit
A	Flush Line	241-A-A	241-A-A-L6 & L8
A	02B	241-A-102-02B-U1	241-A-153-L11
A	02A	241-A-102-02A-U7	241-A-153-U4
A	SN-206	241-A-102-02C-3	241-A-102-02B-3
A	Unknown	241-A-104-04A-U2	241-A-105-05C-A
A	Unknown	241-A-104-04A-U1	241-A-101-01A-U1

Table 8. Inactive Transfer Lines

Farm	Transfer line identifier	Connection facility	Connection facility
A	Unknown	241-A-105-05A-U1	241-A-102-02A-U1
A	Unknown	241-A-106-06A-U1	241-A-103-03A-U1
A	DR-307	241-A-A/A-B	241-A-350
A	DR-302	241-A-350	COB A-2
A	4001/T029	241-A-B, R-12	202A, T029
A	4004/6341/4029/V029	241-A-A, L12	202A
A	D008	241-A-151,U-25	202A
A	D020	241-A-151, U-19	202A
A	D040	241-A-151, U-27	202A
A	D070	241-A-151, U-26	202A
A	D149	241-A-151, U-18	202A
A	D186	241-A-151, U-5	202A
A	E006	241-A-151,U-24	202A
A	E167	241-A-151,U-23	202A
A	F241	241-A-151,U-21	202A
A	F274	241-A-151,U-9	202A
A	F377	241-A-151,U-14	202A
A	F429	241-A-151,U-13	202A
A	F719	241- A-151,U-20	202A
A	F791	241- A-151,U-8	202A
A	G057	241- A-151,U-17	202A
A	G180	241- A-151,U-11	202A
A	M044	241- A-151,U-10	202A
A	M045	241- A-151,U-22	202A
A	R 165	241- A-151,U-12	202A
A	R 345	241- A-151,U-15	202A
A	U039	241- A-151,U-6	202A
A	U136	241- A-151,U-7	202A
A	V001	241- A-151,U-3	202A
A	V002	241- A-151,U-2	202A
A	V003	241- A-151,U-1	Spare
A	DR-301	241- A-350	Spare
AW	V-016 (3)	241-A-151-L3	Crib V016
AW	V-016 (1)	241-A-151-L4	Crib V016
AW	V-016 (2)	241-A-151-L10	Crib V016
AW	V-014 (4)	241-A-151-L5	Tank V014/216A
AW	V-014 (3)	241-A-151-L6	Tank V014/216A
AW	V-011 (2)	241-A-151-L7	Crib V011
AW	V-011 (1)	241-A-151-L9	Crib V011
AW	V-014 (2)	241-A-151-L11	TO216A Tank V014
AW	V-014 (1)	241-A-151-L12	TO216A Tank V014
AW	V008 (3)	241-A-151-L14	241-A-152-U10
AW	V008 (2)	241-A-151-L15	241-A-152-V10
AW	R345	202A-R8	241-A-151-V15
AW	R-165	202-A	241-A-151-V12
AW	4003/T037/4017	202-A	241-AX-152-B
AX	4001	241-AX-151	None Identified
AX	4002	241-AX-151	None Identified
AX	4003	241-AX-151	None Identified
AX	4004	241-AX-151	None Identified
AX	4006	241-AX-151	None Identified
AX	4007	244-AR Vault	241-AX-151
AX	4009	241-AX-151	None Identified
AX	4012	241-CR-153	241-AX-151
AX	4509/4507	241-AX-155,5	241-AZ-101
AX	4512/4600	241-AX-155,4	241-AZ-102

Table 8. Inactive Transfer Lines

Farm	Transfer line identifier	Connection facility	Connection facility
AX	SN-400	241-AX-155,U--3	241-AX-152-B
AX	SL-502	241-AX-B, R-16	241-AY-102, 02D,U-3
AX	SL-108	241-AX-A	241-AX-101, 01A
AX	SL-110	241-AX-A	241-AX-B
AX	SN-247	241-AX-B, R-11	241-AN-01E, A
AX	SL-100	241-AX-B	241-A-B
AX	4014	241-AX-151	None Identified
AX	4017	241-AX-151	None Identified
AX	4018	241-AX-151	None Identified
AX	4019	241-AX-151	None Identified
AX	4020	241-AX-151	None Identified
AX	4021	241-AX-151	241-AY-151
AX	4021	241-AY-151	241-AX-152
AX	4022	241-AX-151	241-AX-152
AX	4530	241-AY-151	241-A-153
AX	6249	241-BYR-152	241-BXR-152
AX	6449	241-BYR-153	241-BXR-153
AX	7412	241-BYR-154	241-BXR-151
AX	7425	241-BYR-154	241-BXR-151
AX	4026	241-AX-101-01A-2	241-AX-101-01A-2
AX	4026	241-AX-101-01A-2	241-AX-102-02A-2
AX	4026	241-AX-101-01A-2	241-AX-103-03A-2
AX	4026	241-AX-101-01A-2	241-AX-104-04A-2
AX	4026	241-AX-101-01A-2	JB-AX-153-01
AX	4026	241-AX-101-01A-2	Leak Detection Pits-01E, 02E, 03E, 04E
AX	A102	241-AX-102	241-AX-152
AX	C102	241-AX-102	241-AY-501
AX	B102	241-AX-102	241-AX-152
AX	B101	241-AX-101	241-AX-152
AX	C101	241-AX-101	241-AY-501
AX	A101	241-AX-101	241-AX-152
AX	8041	241-AX-101-01A-U6	241-AX-101-01C-U4
AX	8038	241-AX-101-01AU4	241-AX-101-01C-U3
AX	8039	241-AX-101-01A-U9	241-AX-101-01B-U5
AX	SN-208	241-AX-101-01B-A	241-AX-A-L15
AX	8040	241-AX-101-01B-U3	241-AX-101-01D-U5
AX	8042	241-AX-102-02C-U5	241-AX-102-02A-U9
AX	8035	241-AX-102-02C-U4	241-AX-102-02A-U7
AX	8036	241-AX-102-02A-U4	241-AX-102-02B-U3
AX	8037	241-AX-102-02B-U5	241-AX-102-02D-U3
AX	8062	241-AX-102-02A-U5	241-AY-152-L6
AX	SN-209	241-AX-102-02D-A	241-AX-B-R14
AX	8029	241-AX-103-03A-U4	241-AX-103-03C-U3
AX	8043	241-AX-103-03A-U6	241-AX-103-03C-U4
AX	SL-500	241-AX-14, L-5	241-AZ-02A, U-10
AX	F-101	241-AX-501, L-1	241-AY-501
AX	F-102	241-AX-501, L-2	241-AX-152 B
AX	DR-325/330/333/347/348	COBS AX-20/24//25	
AX	DR-314/317/320/322/329	COBS AX-19/17/15, A-11/13	
AX	DR-370	AX SEAL POT	241-AY-102, R24
AX	DR-326/336	AX SEAL POT	241-AX-A/B
AX	8031	241-AX-103-03A-U9	241-AX-103-03B-U5
AX	8030	241-AX-103-03B-U3	241-AX-103-03D-U5
AX	SL111	241-AX-103-03A-A	241-AX-A-L7
AX	A-104	241-AX-104	241-AX-152
AX	C-104	241-AX-104	241-AY-501

Table 8. Inactive Transfer Lines

Farm	Transfer line identifier	Connection facility	Connection facility
AX	B-104	241-AX-104	241-AX-152
AX	B-103	241-AX-103	241-AX-152
AX	A-103	241-AX-103	241-AX-152
AX	C-103	241-AX-103	241-AY-501
AX	SN211	241-AX-103-03D-A	241-AX-A-L14
AX	Drain-325, 348,333,342	241-AX-107C	Clean Out Boxes AX-20, 24,25,26
AX	SN212	241-AX-104-04B-A	241-AX-B-R15
AX	SL112	241-AX-104-04A-A	241-AX-B-R9
AX	8032	241-AX-104-04D-U3	241-AX-104-04B-U5
AX	8034	241-AX-104-04C-U5	241-AX-104-04A-U4A
AX	8044	241-AX-104-04C-U4	241-AX-104-04A-U7
AX	Drain-314	241-AX-102-R24	Clean Out Boxes-AX12, 13,14,15,16,17,18,19
AX	4010	241-AX-151	241-AX-151-F-CELL
AX	4011	241-AX-151	241-AX-151-E-CELL
AX	4016	241-AX-151	241-AX-151-E-CELL
AX	4024	241-AX-152-B	Capped
AX	4030	241-PX-152	241-AX-152
AX	806	244-AR-Vault	241-AX-152-A
AX	802	244-AR-Vault	241-AY-152-B
AX	T15/T05	244-AR-Tank-001	244-AR-Tank-004
AX	837	244-AR-Tank-001	244-AR-Tank002, 003,004
AX	819	244-AR-Tank-001	244-AR-Tank-003-T14
AX	4026	241-AX-152	153-AX-Jumper Box –2
AX	4510/A107	241-AX-152-7	Capped
AX	8033	241-AX-104-04A-U4	241-AX-104-04B-U3
AX	Flush Line	241-AX-A-L17	241-AX-A-Flush Pit
AX	Flush Line	241-AX-B-R8, R6	241-AX-B-Flush Pit
AX	SN-210	241-AX-A-L19	241-AX-B-R19
AX	Drain-329	Drain-314	Clean Out Box-AX-19
AX	Drain-323	Drain-314	Clean Out Box -AX-18
AX	Drain-321	Drain-314	Clean Out Box -AX-16
AX	Drain-322	Drain-314	Clean Out Box -AX-17
AX	Drain-320	Drain-314	Clean Out Box -AX-14
AX	Drain-318	Drain-314	Clean Out Box -AX-12
AX	DR-0030	241-AX-501	241-A-417
AX	4505B/B106/B1061	241-AX-152,N-6	241-AY-102
AX	4511/B109	241-AX-152, 7	241-AZ-102
AX	DR-301/314/315/317/318/321/323	COBS A-10/12/,	AX
AX	Drain-349	Drain-314	Clean Out Box -AX-13
AX	RW-3019	RW-Flush Pit	241-AX-152 Catch Tank
AX	Drain-0029	241-AX-153	241-AX-152 Catch Tank
AX	Drain-Unknown	SP-100	Drain-0029
AX	Drain-0067	SP-550	Drain-0029
AX	Drain-0050	241-AY-501	Drain-0029
AX	Drain-0016	SP-110	241-AX-152 Catch Tank
AX	V100	702-A-SP	Drain-0016
AX	Drain-V713	241-AX-155	241-AX-152 Catch Tank
AX	Drain-0036	241-AX-152 Diversion Box	241-AX-152 Catch Tank
AX	Drain-0035	241-AX-152 Diversion Box	Drain-0036
AX	RW-4030	Unknown	241-AX-152 Diversion Box
AX	PW-4022	241-AX-151	241-AX-152 Diversion Box
AX	V0152	Vent Header	241-AX-152 Diversion Box
AX	PW-4026	241-AX-153	241-AX-152 Diversion Box
AX	RW-3015	Flush	241-AX-152 Diversion Box
AX	PW-A101	241-AX-101	241-AX-152 Diversion Box
AX	PW-A102	241-AX-102	241-AX-152 Diversion Box

Table 8. Inactive Transfer Lines

Farm	Transfer line identifier	Connection facility	Connection facility
AX	PW-A103	241-AX-103	241-AX-152 Diversion Box
AX	PW-A104	241-AX-104	241-AX-152 Diversion Box
AX	PW-B101	241-AX-101	241-AX-152 Diversion Box
AX	PW-B102	241-AX-102	241-AX-152 Diversion Box
AX	PW-B103	241-AX-103	241-AX-152 Diversion Box
AX	PW-B104	241-AX-104	241-AX-152 Diversion Box
AX	FLO-4025	Capped	241-AX-152 Diversion Box
AX	PW-4510/A701	Capped	241-AX-152 Diversion Box
AX	4507/A105	Capped	241-AX-152 Diversion Box
AX	RW-3018	Flush	241-AX-152 Diversion Box
AX	RW-3020	Flush	241-AX-152 Diversion Box
AX	RW-3016	Flush	241-AX-152 Diversion Box
AX	RW-3017	Flush	241-AX-152 Diversion Box
AX	FLO-4024	Capped	241-AX-152 Diversion Box
AX	PW-4017/4003/1037	241-202-A	241-AX-152 Diversion Box
AX	PW-4018/4006	244 AR	241-AX-152 Diversion Box
AX	CNDS-F102	241-AX-501	241-AX-152 Diversion Box
AX	PW-4027/4526	PW-4523/4522	241-AX-152 Diversion Box
AX	PW-4523	PW-4027/4526	LPD-AY-102A
AX	PW-4522	PW-4526	LPD-AY-101B
AX	PW-4522	PW-4522	LPD-AY-101A
AX	PW-4551	Capped	PW-4027/4526
AX	PW-4021	241-AY-151	241-AX-152 Diversion Box
AX	PW-4021 Bypass	241-AX-153	PW-4021
AX	4508/B105	241-AX-152.-155	241-AZ-101
AX	U173	241-AX-155	241-AX-152
AX	4503/C108	241-AX-155, N-3	241-AY-101
AX	SL-101	241-AX-A	241-A-A
AX	SL-109	241-AX-B, R-7	241-AX-02A, A
AX	4001	241-AX-151	CAPPED
AX	4022	241-AX-152-CT	241-AX-151
AX	4020	241-AX-151	241-AY-151
AY	8021	241-AY-152	241-AX-103
AY	8022	241-AY-152	241-AX-103
AY	8023	241-AY-152	241-AX-102
AY	8024	241-AY-152	241-AX-102
AY	8025	241-AY-152	241-AX-101
AY	8026	241-AY-152	241-AX-101
AY	8027	241-AY-152	241-AX-104
AY	8028	241-AX-104-04D-U5	241-AY-152-U7
AY	8061	241-AY-152	241-AX-104
AY	8063	241-AY-152	241-AX-101
AY	8064	241-AY-152	241-AX-103
AY	8064	241-AY-152	241-AX-102
AY	8555	241-CR-151	None Identified
AY	8656	241-AX-151	244-CR DCRT
B	9653/141	221-B	None Identified
B	A4013	241-CR-152	241-AX-151
B	D601D505	241-AZ-152	241-AY-152
B	V-341	241-BX-154	221-B
B	V200	241-B-154	221-B
B	V2000	241-BXR-152	241-BX-155
B	V2001	241-BX-155	241-BR-152
B	V210V111	241-B-154	241-C-151
B	V214/8902	241-B-154	221-B

Table 8. Inactive Transfer Lines

Farm	Transfer line identifier	Connection facility	Connection facility
B	V225	241-B-151	241-ER-151
B	V235	241-BX-153	241-B-151
B	V236	241-BX-153	241-B-151
B	V237	241-B-151	241-BX-101
B	V242	241-BX-153	241-B-152
B	V252	241-BX-153	241-B-152
B	V253	241-BX-153	241-B-152
B	V285	241-BX-154	241-B-252
B	V305	241-B-252	241-BY-109
B	V310	241-B-154	241-C-152
B	V313	242-B-151	242-B Evaporator
B	V314	241-BX-155	241-B-151
B	V314	242-B-151	242-B Evaporator
B	V319	241-BX-155	241-B-152
B	V329	241-B-154	221-B
B	V330	241-B-154	221-B
B	V331	241-B-154	221-B
B	V332	241-B-154	221-B
B	V333	241-B-154	221-B
B	V334	241-B-154	221-B
B	V336	241-BX-154	221-B
B	V337	241-BX-154	221-B
B	V339	241-BX-154	221-B
B	V340	241-BX-154	221-B
B	V342	241-BX-154	221-B
B	V718/817	241-AR-151	244-AR Vault
B	V743	221-B	241-C-154
B	829	241-B-106-06A-C	241-B-109-09A-A
B	BWCTL	241-B-103-03A-C	241-B-106-06A-A
B	Unknown	241-B-201	241-B-109
B	Unknown	241-B-112	241-B-111
B	Unknown	241-B-111	241-B-110
B	231/232/233/234	244-BX-Vault	241-B-104, 107,110
B	227/228	244-BX-Vault	241-B-108, 111
B	223/224/225/226	244-BX-Vault	241-B-106, 105,109
B	827	241-BX-103-03A-UA	241-BX-102-02A-U4
B	V290	241-BX-201	241-B-252-L1
B	V291	241-BX-201	241-B-252-L2
B	V292	241-BX-202	241-B-252-L3
B	V293	241-BX-202	241-B-252-L4
B	V294	241-BX-203	241-B-252-L5
B	V295	241-BX-203	241-B-252-L6
B	V296	241-BX-204	241-B-252-L7
B	V297	241-BX-204	241-B-252-L8
B	V243	241-V-252-U6	241-B-152-L2
B	V289	241-BX-154-U9	241-BX-302B
B	Drain Line	241-BX-302B	241-BX-154
B	V335	221-B	241-BX-154
B	V238	241-B-151	241-153 & 241-B-252
B	Drain Line	241-B-301B	241-B-252 & 241-B-153
B	V230	241-B-153-U1	241-B-151-L1
B	V247	241-B-153-U4	241-B-153-L6
B	V246	241-B-153-U5	241-B-152-L5
B	V245	241-B-153-U6	241-B-153-L4
B	V231	241-B-153-U8	241-B-151-L2
B	V260	241-B-153-L2	241-B-111

Table 8. Inactive Transfer Lines

Farm	Transfer line identifier	Connection facility	Connection facility
B	V261	241-B-153-L3	241-B-110
B	V262	241-B-153-L4	241-B-110
B	V263	241-B-153-L5	241-B-110
B	V266	241-B-153-L8	241-B-107
B	V267	241-B-153-L9	241-B-107
B	V268	241-B-153-L10	241-B-107
B	V271	241-B-153-L13	241-B-104
B	V272	241-B-153-L14	241-B-104
B	V273	241-B-153-L15	241-B-104
B	V201	241-B-154-U8	241-B-302B
B	Drain Line	241-B-302B	241-B-154
B	V203	241-B-154-L2	Crib
B	V204	241-B-154-L3	Sump
B	V208	241-B-154-L7	241-B-152-U6
B	V130	241-B-154-L8	241-C-152-U4
B	V209	241-B-154-L9	241-B-152-U5
B	V211	241-B-154-L11	241-B-152-U4
B	V213	241-B-154-L13	241-B-151-U4
B	V215	241-B-154-L15	241-B-151-U3
B	V238	241-B-152	241-B-151
B	V240	241-B-152-U3	241-B-151-U5
B	V233	241-B-151-L4	241-B-101 Failed
B	V234	241-B-151-L5	241-B-101
B	V250	241-B-152-L11	241-B-106
B	PL2021	242-B	241-B-106
B	Unknown	242-B	241-B-106
B	V314	242-B	242-B-151-U2
B	V307	242-B-151	241-B-108
B	V308	242-B-151-L2	241-B-109
B	V309	242-B-151	241-B-107
B	V310	242-B-151	241-B-105
B	V311	242-B-151	241-B-104
B	826	241-B-109-09A-D	241-B-108-08A-D
B	824	241-B-112-012A-C	241-B-108-08A-A
B	BWCTL-M2	241-B-102-02A-A	241-B-108-08A-C
B	9017	241-B-102-02C-U1	241-BR-152-L7
B	9047	241-B-101-01C-U2	241-BR-152-U1
B	9044	241-B-101-01A-U2	241-BR-152-U2
B	9041	241-B-102-02C-U2	241-BR-152-U3
B	9038	241-B-102-02A-U2	241-BR-152-U4
B	9035	241-B-103-03C-U2	241-BR-152-U5
B	9032	241-B-103-03A-U2	241-BR-152-U6
B	9020	241-B-101-01C-U1	241-BR-152-L9
B	9014	241-B-103-03C-U1	241-BR-152-L10
B	9010	241-B-101-01A-U1/01B-U2	241-BR-152-L11
B	9006	241-B-102-02A-U1/02B-U2	241-BR-152-L12
B	9002	241-B-103-03A-U1/03B-U2	241-BR-152-L13
B	9031	241-B-101-01A-U3	241-BR-152-L14
B	9037	241-B-102-02A-U3	241-BR-152-L15
B	V312	241-B-104	241-B-151
B	6253	241-B-302A	241-BXR-152 & 241-BR-152
BX	9012	241-BXR-151	241-BR-152
BX	9025	241-BXR-151	241-BR-152
BX	9212	241-BYR-152	241-BXR-151
BX	9212	241-BYR-152	241-BXR-152
BX	9225	241-BYR-152	241-BXR-151

Table 8. Inactive Transfer Lines

Farm	Transfer line identifier	Connection facility	Connection facility
BX	9225	241-BYR-152	241-BXR-152
BX	9249	241-BYR-152	241-BXR-152
BX	9412	241-BYR-153	241-BXR-151
BX	9425	241-BYR-153	241-BXR-151
BX	9425	241-BYR-153	241-BXR-153
BX	9449	241-BYR-153	241-BXR-153
BX	9623	241-BYR-154	241-BXR-151
BX	9624	241-BXR-151	241-BR-152
BX	9626	241-BYR-153	241-BXR-151
BX	9626	241-BYR-153	241-BXR-153
BX	9630	241-BXR-151	241-BR-152
BX	9631	241-BYR-152	241-BXR-152
BX	9631	241-BYR-152	241-BXR-151
BX	9632	241-BYR-153	241-BXR-151
BX	9632	241-BYR-153	241-BXR-153
BX	9633	241-BYR-154	241-BXR-151
BX	9633	241-BYR-154	241-BXR-151
BX	9633	241-BYR-154	241-BXR-151
BX	9633	241-BYR-154	241-BXR-151
BX	9633	241-BYR-154	241-BXR-151
BX	9636	241-BXR-151	241-B-252
BX	9644	241-BXR-151	None Identified
BX	9644	241-BXR-151	None Identified
BX	9644	241-BXR-151	None Identified
BX	4005/810	241-AX-151	244-AR Vault
BX	4107VO331	241-AX-151	241-A-152
BX	6307/V336	241-BYR-152	241-BX-153
BX	7435/9365/V304	241-BYR-154	241-B-252
BX	7507/9712	241-BYR-154	B-Swamp
BX	814/4015	241-AX-151	None Identified
BX	9247	241-BX-101-01C-U2	241-BXR-152-U1
BX	9241	241-BX-102-02C-U2	241-BXR-152-U3
BX	9217	241-BX-102-02C-U1	241-BXR-152-L7
BX	9235	241-BX-103-03C-U1	241-BXR-152-U5
BX	9214	241-BX-103-03C-U2	241-BXR-152-L10
BX	9232	241-BX-103-03A-U2	241-BSR-152-U6
BX	9202	241-BX-103-03A-U2	241-BXR-152-L13
BX	9256	241-BX-103-03B-U2	241-BX-103-03A-U1
BX	Unknown	241-BX-103	241-BX-102
BX	Unknown	241-BX-102	241-BX-101
BX	9263	241-BX-102-02B-U2	241-BX-102-02A-U1
BX	9270	241-BX-101-01B-U2	9270
BX	9237	241-BX-102-02A-U3	241-BXR-152-L15
BX	9238	241-BX-102-02A-U2	241-BXR-152-U4
BX	9206	241-BX-102-02A-U1	241-BXR-152-L12
BX	9465	241-BX-106-06B-U2	9402/9456
BX	9435	241-BX-106-06C-U2	241-BXR-153-U5
BX	9414	241-BX-106-06C-U2	241-BXR-153-L10
BX	819/818	241-BX-106-06A-U4	241-BX-110-C
BX	820	241-BX-106-C	241-BX-105-05A-A
BX	9432	241-BX-106-06A-U2	241-BXR-153-U6
BX	9441	241-BX-105-05C-U2	241-BXR-153-U3
BX	9417	241-BX-105-05C-U1	241-BXR-153-L7
BX	9437	241-BX-105-05A-U3	241-BXR-153-L15
BX	9438	241-BX-105-05A-U2	241-BX-153-U4
BX	9406/9463	241-BX-105-05A-U1	241-BXR-153-L12

Table 8. Inactive Transfer Lines

Farm	Transfer line identifier	Connection facility	Connection facility
BX	9463	241-BX-105-05B-U2	9406/9463
BX	9231	241-BX-101-01A-U3	241-BXR-152-L14
BX	9244	241-BX-101-01A-U2	241-BXR-152-U2
BX	V355	241-BX-101	241-BX-153-L17
BX	822	241-BX-105-05A	241-B-109-09A-C
BX	823	241-BX-105-05A-E	241-B-112-012A-A
BX	9420	241-BX-104-04C-U1	241-BXR-153-L9
BX	9447	241-BX-104-04C-U2	241-BXR-153-U1
BX	SN-230/215/214/213	241-BX-104-04B-U1	244-BX-Tanks-109, 111,112
BX	V353	241-BX-104	241-BX-153-L15
BX	9470/9410	241-BX-104-04B-U2	241-BX-104-04A
BX	V352	241-BX-104	241-BX-153-L14
BX	V351	241-BX-104	241-BX-153-L13
BX	9444	241-BX-104-04A-U2	241-BXR-153-U2
BX	9431	241-BX-104-04A-U3	241-BXR-153-L14
BX	9456/9402	241-BX-106-06A-U1	241-BXR-153-L13
BX	816	241-BX-112-012A-C	241-BX-111-011A-A
BX	817	241-BX-111-011A-C	241-BX-110-010A-A
BX	V345	241-BX-109	241-BX-153-L11
BX	V350	241-BX-112	241-BX-153-L7
BX	SN216/217	241-BX-107	241-BX-110 & 244 BX
BX	V347	241-BX-107	241-BX-153-L9
BX	V348	241-BX-107	241-BX-153-L10
BX	V346	241-BX-107	241-BX-153-L8
BX	V349	241-BX-104	241-BX-153
BX	V344	241-BX-110	241-BX-153-L6
BX	V343	241-BX-110	241-BX-153-L5
BX	V342	241-BX-110	241-BX-153-L4
BX	9210/9270	241-BX-101-01B-U2	241-BXR-152-L11
BX	V318	241-BX-153-U7	241-BX-155-L5
BX	V317	241-BX-153-UB	241-BX-155-L4
BX	V316	241-BX-153-U9	241-BX-155-L3
BX	V338	241-BX-153-U12	241-B-302A
BX	DrainCB-302A	241-B-302A	241-BX-153
BX	V282	241-BX-155-U2	241-BX-154-L3
BX	V283	241-BX-155-U3	241-BX-154-L4
BX	V284	241-BX-155-U4	241-BX-154-L5
BX	V323	241-BX-155-U7	241-BX-302C
BX	Drain (BX-302B)	241-BX-155	241-BX-302C
BX	V315	241-BX-155	241-B-151-U6
BY	9625/9212	241-BYR-152	241-BXR-151
BY	9625/9212	241-BYR-152	241-BXR-152
BY	6402	241-BYR-153-L13	241-BY-106-06A-U1
BY	6414	241-BYR-153-L10	241-BY-106-06C-U1
BY	6444	241-BYR-153-U2	241-BY-104-04D-U2
BY	6438	241-BYR-153-U4	241-BY-105-05D-U2
BY	6432	241-BYR-153-U6	241-BY-106-06D-U2
BY	6435	241-BYR-153-U5	241-BY-106-06C-U2
BY	6441	241-BYR-153-U2	241-BY-105-05C-U2
BY	6417	241-BYR-153-L7	241-BY-105-05C-U1
BY	6406	241-BYR-153-L12	241-BY-105-05A-U1
BY	6410	241-BYR-153-L11	241-BY-104-04A-U1
BY	6420	241-BYR-153-L9	241-BY-104-04C-U1
BY	6447	241-BYR-153-U1	241-BY-104-04C-U2
BY	6443/9453	241-BYR-153	241-BXR-153 & 241-BX-104-04C
BY	6232	241-BY-103-03D-U2	241-BYR-152-U6

Table 8. Inactive Transfer Lines

Farm	Transfer line identifier	Connection facility	Connection facility
BY	6202	241-BY-103-03A-U1	241-BYR-152-L13
BY	SN-201	241-BY-103-U2	SN-200 & SN-203
BY	6214	241-BY-103-03C-U1	241-BYR-152-L10
BY	6235	241-BY-103-03C-U2	241-BYR-152-U5
BY	810	241-BY-103-03C	241-BY-106-06D-A
BY	809	241-BY-103-03C-A	241-BY-105-05D-C
BY	SN-207	241-BY-103-03A	244-BX-D
BY	808	241-BY-102	241-BY-105-05D-D
BY	806	241-BY-102-02A-U8	241-BY-111-U4-011D
BY	814	241-BY-102-02B	241-BY-111-U8-011D
BY	6238	241-BY-102-02D-U2	241-BYR-152-U4
BY	6206	241-BY-102-02A-U1	241-BYR-152-L12
BY	6217	241-BY-102-02C-U1	241-BYR-152-L7
BY	6241	241-BY-102-02C-U2	241-BYR-152-U3
BY	SN-200	241-BY-102-02A-U2	SN-201
BY	SN-202	241-BY-105-05A-U2	SN-201
BY	807	241-BY-105-05D-A	241-BY-104-04D-C
BY	806	241-BY-104-04D-A	241-BY-107-07A-D
BY	6247	241-BY-101-01C-U2	241-BYR-152-U1
BY	6244	241-BY-101-01D-U2	241-BYR-152-2
BY	6210	241-BY-101-01A-U1	241-BYR-152-L11
BY	6220	241-BY-101-01C-U1	241-BYR-152-L9
BY	822	241-BY-101-01C-C	241-BY-104-04D
BY	821	241-BY-101-01C-A	241-BX-105-05A-C
BY	Unknown	241-BY-106-06D, C	241-BY-109
BY	PL-P11	241-BY-112-012D	241-BY-109-09A-U6
BY	SN-205/207	241-BY-109-09A-U5	Capped
BY	7406/9394	241-BY-109-09A-U4	241-BYR-154-L12
BY	PL-P22	241-BY-109	241-BY-108
BY	SN-204	241-BY-108-08A-U1	Capped
BY	813	241-BY-108-08A-A	241-BY-107-07A-C
BY	805	241-BY-107-07A-A	241-BY-110-010A-C
BY	801	241-BY-11-012D-U7	241-BY-111-011D-U7
BY	SN-207	241-BY-112-012A	801
BY	7406/9394	241-BY-112-012A-U1	241-BY-109-09A-U4
BY	800	241-BY-112-012D-U6	241-BY-111-011D-U6
BY	7437	241-BY-112-012D-U1	241-BYR-154-L15
BY	7438	241-BY-112-012D-U2	241-BYR-154-U4
BY	7417	241-BY-112-012C-U1	241-BYR-154-L10
BY	7441	241-BY-112-012C-U2	241-BYR-154-U3
BY	7447	241-BY-111-011C-U2	241-BYR-154-U2
BY	7420	241-BY-111-011C-U1	241-BYR-154-L9
BY	7410	241-BY-111-011A-U1	241-BYR-154-L11
BY	SN-206	241-BY-111-011A-U2	Capped
BY	7444	241-BY-111-011D-U2	241-BYR-154-U2
BY	7431	241-BY-111-011D-U1	241-BYR-154-L14
BY	Unknown	241-BY-112	241-BY-111
BY	804	241-BY-110-010-A	241-BY-111-A
BY	SN-211	241-BY-110-01A	SN-204
BY	815	241-BY-110-010A-D	241-BX-112-012-A-A
BY	9613	244-BXR-Tank-003-U2	244-BXR-011
BY	9604	244-BXR-Tank-003	244-BXR-011-U2
BY	Unknown	244-BSR-Tank-002-U2	244-BXR-011
BY	9648	244-BXR-Tank-002-U1	241-BXR-151-L6
BY	9647	244-BXR-Tank-003-U1	241-BXR-151-L4
BY	9622	244-BXR-Tank-001-U3	241-BXR-151-L3

Table 8. Inactive Transfer Lines

Farm	Transfer line identifier	Connection facility	Connection facility
BY	9601	244-BXR-Tank-001	241-BXR-151-L1
BY	9616	244-BXR-011-U1	241-BXR-151-L5
BY	9765	241-BXR-157	244-BXR Vault
BY	Drain Line	241-BYR-154	244-BXR Vault
BY	6253	241-BYR-152	241-BXR-152
BY	9719	241-BXR-151-U24	241-ER-151-L3
C	V1000	241-CR-152	244-CR Vault
C	V101	241-C-153	None Identified
C	V109	241-C-151-U2	241-A-101-A
C	V110	241-C-151	244-CR Vault
C	V113	241-C-151	241-AX-101
C	V113	241-C-151	241-AX-103
C	V121	241-C-152	None Identified
C	V136	241-C-153	None Identified
C	V137	241-C-153	None Identified
C	V141	241-C-153	None Identified
C	V142	241-C-153	None Identified
C	V147	241-C-153	None Identified
C	Unknown	241-C-109	241-C-108
C	Unknown	241-C-108	241-C-107
C	Unknown	241-C-112	241-C-111
C	Unknown	241-C-111	241-C-110
C	8552	241-C-201, 202,203,204	241-CR-151-U2
C	V175	241-C-252-U5	201-C Hot Semi Works
C	V107	241-C-252-U4	241-C-151-I8
C	V172	241-C-252-U1	241-C-109
C	V163	241-C-204	241-C-252-L8
C	V162	241-C-204	241-C-252-L7
C	V160	241-C-203	241-C-252-L5
C	V161	241-C-203	241-C-252-L6
C	V159	241-C-202	241-C-252-L4
C	V158	241-C-202	241-C-252-L3
C	V157	241-C-201	241-C-252-L2
C	V156	241-C-201	241-C-252-L1
C	V839	241-C-154	201-C Hot Semi Works
C	8900	201-C	244-CR-Tank-003-U10
C	V122	241-C-105-05A-U4	241-C-152-L8
C	V120	241-C-152-L6	241-C-153-U4
C	V119	241-C-152-L5	241-C-153-U5
C	V118	241-C-152-L4	241-C-153-U6
C	V115	241-C-105-05A-U5	241-C-152-L1
C	8032	241-C-103-03A-U2	241-CR-152-U6
C	8035	241-C-103-03C-U2	241-CR-152-U5
C	8014	241-C-103-03C-U1	241-CR-152-L10
C	8002	241-C-103-03A-U1	241-CR-152-L13
C	Unknown	241-C-103-03B-U1	241-C-Valve Pit
C	Unknown	241-C-103-03B-U2	Line 8002
C	Drain Line	241-C-103	241-C-Valve Pit
C	8037	241-C-102-02A-U3	241-CR-152-L15
C	8038	241-C-102-02A-U2	241-CR-152-U4
C	8006	241-C-102-02A-U1	241-CR-152-L12
C	V843	241-C-102	241-CR-151-L9
C	V844	241-C-102	241-CR-151-L9
C	Drain Line	241-C-102-02B-U3	241-C-Valve Pit
C	Unknown	241-C-102-02B-U2	Line 8006
C	8041	241-C-102-02C-U2	241-CR-152-U3

Table 8. Inactive Transfer Lines

Farm	Transfer line identifier	Connection facility	Connection facility
C	8017	241-C-102-02C-U1	241-CR-152-L7
C	8630	241-CR-152-L1, 2,3,4,5,6	241-CR-151-U9
C	8047	241-C-101-01C-U2	241-CR-152-U1
C	8044	241-C-101-01A-U2	241-CR-152-U3
C	V1001	241-CR-152-U4A	241-CR-153-U3A
C	8648	241-CR-151-L6	244-CR-Tank-002-U1
C	8636/V105	241-CR-151-U1	241-C-151-L6
C	Drain Line	244-CR-Tank-002	241-CR-151
C	8653/8618	241-ER-151-L9	241-CR-151-U14
C	Unknown	241-C-106-06B-U2	Line 8202
C	Drain-301	241-C-106-06C-U8	To Metal Filter Drain
C	Drain-302	241-C-106-06C-U9	To Process Building Floor Drain
C	Unknown	241-C-105-05B-U2	Line 8210
C	V150	241-C-104	241-C-153-L15
C	V149	241-C-104	241-C-153-L14
C	V148	241-C-104	241-C-153-L13
C	V138	241-C-110	241-C-153-L3
C	V139	241-C-110	241-C-153-L4
C	V140	241-C-110	241-C-153-L5
C	V143	241-C-107	241-C-153-L8
C	V144	241-C-107	241-C-153-L9
C	V145	241-C-107	241-C-153-L10
C	V100	241-C-151-L1	241-C-153-U9
C	V108/812	241-C-151-U1	244-AR-Tank-002-T9
C	V102	241-C-101	241-C-151-L4
C	V103	241-C-105	241-C-151-L3
C	V104	241-C-101	241-C-151-L4
C	Drain Line	241-C-252	241-C-153 & 241-C-151
C	V219	241-ER-151-L4	Capped
C	V365	241-ER-151-U8	Flow meter Box
C	Unknown	241-C-104-04B-U3	241-C-Valve Pit
C	Unknown	241-C-104-04B-U2	Line 8210
C	Drain Line	241-C-104-04C	241-C-Valve Pit & 241-CR-153
C	Drain Line	241-C-107-U1	241-C-Valve Pit
C	Unknown	241-C-112	241-C-Valve Pit
C	V172	241-C-252	241-C-109, 112
C	Unknown	241-C-110-U1	241-C-Valve Pit
C	Unknown	241-C-105	Unknown
C	V1002	241-CR-152-U6A	241-CR-153-U1A
C	8107/V844	241-C-102	241-CR-152-L8
C	8020	241-C-101-01C-U1	241-CR-152-L9
C	8010	241-C-101-01A	241-CR-152-L11
C	Unknown	241-C-101-01B-U1	8010
C	8031	241-C-101-01A-U3	241-CR-152-L14
C	8624	241-CR-152-U8	241-CR-151-U9
C	8012	241-CR-152-U9, U11, U12	241-CR-151-U4
C	8625	241-CR-153-U8	241-CR-151-U6
C	V228	241-CR-153-U6A	241-ER-153-7
C	8232	241-C-106-06A-U2	241-CR-153-U6
C	8235	241-C-106-06C-U2	241-CR-153-U5
C	8238	241-C-105-05A-112	241-CR-153-U4
C	8241	241-C-105-05C-U2	241-CR-153-U3
C	8244	241-C-104-04A-U2	241-CR-153-U2
C	8247	241-C-104-04C-U2	241-CR-153-U1
C	8225	241-CR-153-U10	241-CR-151-U10
C	8237	241-C-105-05A-U3	241-CR-153-L15

Table 8. Inactive Transfer Lines

Farm	Transfer line identifier	Connection facility	Connection facility
C	8231	241-C-104-04A-U3	241-CR-153-L14
C	8202	241-C-106-06A-U1	241-CR-153-L13
C	8206	241-C-105-05A-U1	241-CR-153-L12
C	8210	241-C-104-04A-U10	241-CR-153-L11
C	8214	241-C-106-06C-U1	241-CR-153-L10
C	8220	241-C-104-04C-U1	241-CR-153-L9
C	8217	241-C-105-05C-U1	241-CR-153-L7
C	8631	241-CR-153-L (1-6)	241-CR-151-U8
C	8644	241-CR-151-U12, 13,15	241-CR-151
C	8601	241-CR-151-L1	244-CR-Tank-001
C	8647	241-CR-151-L4	244-CR-244-CR-U1-Tank-003
C	8616	241-CR-151-L5	244-CR-U1-Tank-011
S	1006	205-S	240-S-152
S	1115	240-S-151	202-S
S	1140	240-S-151	202-S
S	1145	240-S-151	202-S
S	1236	240-S-151	202-S
S	1540	240-S-151	202-S
S	1541	240-S-151	202-S
S	3130	240-S-151	202-S
S	3591	240-S-151	202-S
S	3592	240-S-151	202-S
S	3603	240-S-151	None
S	3610	240-S-151	202-S
S	3635	240-S-151	202-S
S	3658	240-S-151	202-S
S	3666	240-S-151	202-S
S	4242	240-S-151	202-S
S	Unknown	242-S Evaporator	241-S-103
S	Unknown	242-S Evaporator	241-S-103
S	Unknown	240-S-152	204-S
S	SL101	241-S-152	Blocked
S	SL115	241-S-A	241-S-C
S	SL117	241-S-C	241-SX-A
S	SL126	241-S-D	None Identified
S	SL138	241-S-152	242-S Evaporator
S	SL139	241-S-152	Blocked
S	SL139/SL114	242-S Evaporator	241-S-B
S	SN217	241-S-C	241-SX-A
S	SN218	241-S-D	241-SX-B
S	SL-121	241-S-101-01A-B	241-S-B-R5
S	SN221	241-S-101-01-A	241-S-B-R14
S	V541	241-S-101	101-S Caisson 241-S-151-L19
S	V538	241-S-104	241-S-151-L16
S	V539	241-S-104	241-S-151-L17
S	V536	241-S-107	241-S-151-L14
S	V5006	241-S-104-04A	241-S-107-07A
S	540	241-S-107-07A	241-S-151-L18
S	V537	241-S-107	241-S-151-L15
S	SN245	241-S-107	244-S
S	SN246	241-S-107	244-S
S	SN247	241-S-107	244-S
S	SN248	241-S-107	244-S
S	SN249	241-S-107	244-S
S	Drain Line	241-S-107	241-S-C Flush Pit
S	Drain Line	241-S-107	241-S-D Flush Pit

Table 8. Inactive Transfer Lines

Farm	Transfer line identifier	Connection facility	Connection facility
S	Flush Line	241-S-C-L17	241-S-C Flush Pit
S	Flush Line	241-S-D-R17	241-S-D Flush Pit
S	SN226	241-S-107-07A-A	241-S-D-R14
S	SN246	241-S-107-07A-B	241-S-D-R2
S	V534	241-S-110	241-S-151-L12
S	V535	241-S-110	241-S-151-L13
S	SL127	241-S-110-10A	241-S-D-R7
S	SN227	241-S-110-10A	241-S-D-R15
S	Drain Line	241-S-302-B	241-S-302-A
S	SN242	241-S-02A-U6	241-S-A-L12
S	SN214	241-S-102	241-S-V-R14
S	SN213	241-S-102	241-S-A-L1
S	SL140	241-S-02B-U2	241-S-A-L5
S	234	241-S-102-02A-A	Unknown
S	235	241-S-102-02A-AA	Unknown
S	Unknown	241-S-102-BB	Flush Pit
S	Drain Line	241-S-102-02A-F	241-S-152
S	SL125	241-S-112-12A-B	241-S-C-L9
S	SL123	241-S-109-09A-B	241-S-C-L7
S	SL124	241-S-108-08A-B	241-S-C-L5
S	SN224	241-S-108-08A-A	241-S-C-L14
S	SN222	241-S-105-05A	241-S-B-R16
S	SN220	241-S-106-06A-A	241-S-A-L16
S	SL122	241-S-105-05A	241-S-B-R9
S	Flush Line	241-S-B-R8/R17	241-S-B Flush Pit
S	SN225	241-S-112-12A-A	241-S-C-L16
S	SL120	241-S-106-B	241-S-A-L9
S	SL128	241-S-111-11A-B	241-S-D-R9
S	SN228	241-S-111-11A-A	241-S-D-R16
S	SN239	241-S-C-L19	241-S-D-R19
S	SN223	241-S-109-09A-A	241-S-C-L15
S	SN215	A-L14	241-S-C-L1
S	SL134	241-S-A-L18	241-S-D-R18
S	Unknown	241-S-A-L19	241-S-B-R19
S	SL219	241-S-103-03A-A	241-S-A-L15
S	SL119	241-S-103-03A-B	241-S-A-L7
S	Flush Line	241-S-A-L8/L17	241-S-A Flush Pit
S	V519	240-S-151-L2	241-S-151-U18
S	V517	202-S	241-S-151-U16
S	V516	240-X-151-L7	241-S-151-U15
S	V515	240-S-151-L7	241-S-151-U14
S	V514	240-S-151-L6	Capped
S	V513	240-S-151-L12	241-S-151-U11
S	V512	240-S-151-L16	241-S-151-U10
S	V509	240-S-151-L16	241-S-151-U7
S	V509	240-S-151-L17	241-S-151-U8
S	V521	241-S-151-L17	241-S-151-B1
S	V533	241-S-151-B2	Crib
S	V560	244-S Catch Station	241-S-S-151
S	SL116	211-S-B-R10	241-S-D-R3
S	SN216	241-S-B-R12	241-S-D-R1
S	Unknown	241-S-C-L18	241-S-D-R19
S	SN200	241-S-102	241-S-152-5
S	SL139	241-S-152-4	Capped
S	SN201	241-S-102	241-S-152-7
S	Unknown	241-S-103	Clean Out Boxes-9, 10

Table 8. Inactive Transfer Lines

Farm	Transfer line identifier	Connection facility	Connection facility
S	Unknown	241-S-109	Clean Out Boxes-13, 14
S	V555	240-S-152-L1	240-S-151-U17
S	V554	240-S-151	241-S-302-CT
S	1238	202-S	240-S-151-U10
S	V553	240-S-151-U8	240-S-142-L3
S	V552	240-S-151-U3	240-S-152-L3
S	1045	240S-152	204-S
S	V544	240-S-151-L1	216-S Swamp
S	V517	240-S-151	Capped
S	V547	240-S-151	216-S Crib
S	V546	240-S-151	V544/216-S Swamp
S	V550	240-S-151	V544/216-S Swamp
S	V-510	241-S-151	241-S-304
S	V-520	241-S-151	244-S
S	V-522	241-S-151	244-S
S	V-542	241-S-151	241-S-304
S	V-560	241-S-151	244-S
SX	V569	241-SX-302-A	241-SX-151-L1
SX	V762/4853	241-SX-152	241-UX-154
SX	SN241	241-SX-101-01A-A	241-SX-B-R14
SX	SL137	241-SX-101-01A	241-SX-B-R5
SX	V578	241-SX-101	241-SX-151-L10
SX	SL133	241-SX-104-04A-B	241-SX-B-R7
SX	SN233	241-SX-104-04A-A	241-SX-B-R15
SX	V584	241-SX-104	241-SX-151-L16
SX	312	241-SX-102	Clean Out Boxes-15, 16,17,18,19,20,21,22
SX	318	241-SX-102	241-SX-A Flush Pit
SX	SL130	241-SX-102-02B-B	241-SX-A-L5
SX	SN230	241-SX-102-02B-A	241-SX-A-L14
SX	V579	241-SX-105-05A-A	241-SX-B-R16
SX	V583	241-SX-105	241-SX-151-L15
SX	SL132	241-SX-105	241-SX-B-R9
SX	105	241-SX-105	241-SX-152
SX	108	241-SX-108-08A-1	241-SX-152
SX	109	241-SX-109-09A-1	241-SX-152
SX	107	241-SX-107-07A-1	241-SX-152
SX	V576	241-SX-107	241-SX-151-L8
SX	V575	241-SX-108	241-SX-151-L7
SX	V570	241-SX-110	241-SX-151-L2
SX	V571	241-SX-111	241-SX-151-L2
SX	110	241-SX-110-10A-1	241-SX-152
SX	111	241-SX-111-11A-1	241-SX-152
SX	112	241-SX-112-12A-1	241-SX-152
SX	113	241-SX-113-13A-1	241-SX-152
SX	114	241-SX-114-14A-1	241-SX-152
SX	115	241-SX-115-15A-1	241-SX-152
SX	V574	241-SX-109	241-SX-151-L6
SX	V582	241-SX-106	241-SX-151-L14
SX	V580	241-SX-103-03	241-SX-151-L12
SX	SL129	241-SX-103-03B-B	241-SX-A-L7
SX	SN229	241-SX-103-03B-A	241-SX-A-15
SX	103	241-SX-103-03-A	Capped
SX	V572	241-SX-112	241-SX-151-L4
SX	V591	241-SX-114	241-SX-151-L23
SX	SL131	241-SX-106-06A-B	241-SX-151-L9
SX	SN231	241-SX-106-06A-A	241-SX-A-L16

Table 8. Inactive Transfer Lines

Farm	Transfer line identifier	Connection facility	Connection facility
SX	Unknown	241-SX-A-L19	241-SX-B-R19
SX	Unknown	241-SX-A-L18	241-SX-B-R18
SX	Flush Line	241-SX-A-L17	241-SX-A Flush Pit
SX	Flush Line	241-SX-A-R17	241-SX-B Flush Pit
SX	Drain Line	241-SX-B	241-SX-A Flush Pit
SX	Unknown	241-SX-106	Clean Out Boxes-24, 25
SX	V577	241-SX-151-L9	241-SX-152
SX	V567/V581	241-SX-151-U7	241-SX-152
SX	V595	241-SX-302-A	241-SX-152
SX	456	241-SX-152	Capped
SX	V526	241-SX-152-U13	241-S-151-L4
SX	V564	241-SX-151-U11	241-SX-151-U2
SX	V527	241-SX-151-U10	241-S-151-L5
SX	V566	241-SX-151-U9	241-SX-151-U5
SX	V530	241-SX-151-U4	241-S-151-L5
SX	V528	241-SX-151-U8	241-S-151-L6
SX	V529	241-SX-151-U6	241-S-151-L8
SX	V563	241-SX-151-U1	241S-302A
SX	V542	241-S-304	241-S-151
SX	V543	241-S-304	241-S-151
SY	SN282	241-S-152-11	Failed
SY	SN216	241-S-152-9	Capped
SY	SL175	241-S-152-8	Failed
SY	SN281	241-S-152-10	Failed
SY	SL100	241-S-152	241-UC-L3
SY	SL175	241-SY-A-L3	R-231 Project
T	V399	241-T-152	241-TX-155
T	V405	241-T-152	241-TX-155
T	V405	241-TX-155	241-T-152
T	V411	241-T-151	241-TX-155
T	V412	241-TX-155	Blocked
T	V597	241-TY-153	241-TX-153
T	V6002	241-TR-152	241-T-103
T	V6006	241-TR-152	241-T-102
T	V601	241-T-152	241-TX-153
T	V6010	241-TR-152	241-T-101
T	V610	241-TX-153	242-T Evaporator
T	V653	241-T-151	221-T
T	V654	241-T-151	221-T
T	V657	241-T-153	241-T-151
T	V658	241-T-153	241-T-151
T	V667	241-T-152	221-T
T	V668	241-T-152	221-T
T	V669	241-T-152	221-T
T	V671	241-T-152	224-T
T	V675	241-T-153	241-T-152
T	V676	241-T-153	241-T-152
T	V707	241-T-252	221-T
T	V695	241-T-107	241-T-153-L8
T	V692	241-T-110	241-T-153-L5
T	V691	241-T-110	241-T-153-L4
T	V690	241-T-110	241-T-153-L2
T	7624	241-TR-153-U14	Capped
T	6012	241-TR-153-U13	Capped
T	6165	241-TR-153-U6	241-TR-152-L1, 2,3,4,5,6
T	6017	241-T-102-02C-U1	241-TR-152-L7

Table 8. Inactive Transfer Lines

Farm	Transfer line identifier	Connection facility	Connection facility
T	6041	241-T-102-02C-U2	241-TR-152-U3
T	Unknown	241-T-102-02C-U2	6006
T	6037	241-TR-02-U3	241-TR-152-L15
T	6038	241-T-102-02A-U2	241-TR-152-U4
T	6035	241-T-103-03C-U2	241-TR-152-U5
T	6014	241-T-103-03C-U1	241-TR-152-L10
T	Unknown	241-T-103-03B-U2	6002
T	6032	241-T-103-03A-U2	241-TR-152-U6
T	6170	241-TR-152-U8	241-TR-153-U1
T	6160	241-TR-152-U9, 11,12	241-TR-153-U2
T	V718	241-T-204	241-T-252-L8
T	V717	241-T-204	241-T-252-L7
T	V716	241-T-203	241-T-252-L6
T	V715	241-T-203	241-T-252-L5
T	Unknown	241-T-203	241-T-101
T	Unknown	241-T-204	241-T-101
T	Unknown	241-T-202	241-T-101
T	Unknown	241-T-202	241-T-101
T	V714	241-T-202	241-T-252-L4
T	V713	241-T-202	241-T-252-L3
T	V712	241-T-201	241-T-252-L2
T	V711	241-T-201	241-T-252-L1
T	V707	221-T-10	Unknown
T	V663	241-T-151-L8	Crib
T	V664	241-T-152	241-T-151
T	V727	241-T-301-B	241-T-252
T	V664	241-T-301-B	241-T-153
T	Unknown	241-T-101	241-T-102
T	Unknown	241-T-104	241-T-105
T	Unknown	241-T-107	241-T-108
T	Unknown	241-T-110	241-T-111
T	Unknown	241-T-111	241-T-112
T	Unknown	241-T-108	241-T-109
T	Unknown	241-T-105	241-T-106
T	Unknown	241-T-102	241-T-103
T	6047	241-T-101-01C-U2	241-TR-152-U1
T	6053	241-T-101-01C	241-TR-152
T	6020	241-T-101-01C-U1	241-TR-152-U2
T	Unknown	241-T-101	241-T-102-02B-U3
T	Unknown	241-T-101-01B-U3	241-T-105
T	Unknown	241-T-101-01B-U2	6010
T	6031	241-T-101-01A-U3	241-TR-152-L14
T	3044	241-T-101-01A-U2	241-TR-152-U2
T	V660	241-T-101	241-T-151-L4
T	V661	241-T-101	241-T-151-L5
T	V677	241-T-152-L8	241-T-153-U4
T	6172	241-T-102	241-TR-153
T	V698	241-T-106	241-T—153-L11
T	V699	241-T-105	241-T-153-L12
T	V701	241-T-104	241-T-153-L14
T	V700	241-T-104	241-T-153-L13
T	V702	241-T-104	241-T-153-L15
T	V697	241-T-107	241-T-153-L10
T	V696	241-T-107	241-T-153-L9
T	V695	241-T-107	241-T-153-L8
T	V692	241-T-110	241-T-153-L5

Table 8. Inactive Transfer Lines

Farm	Transfer line identifier	Connection facility	Connection facility
T	V691	241-T-110	241-T-153-L4
T	V690	241-T-110	241-T-153-L2
T	7624	241-TR-153-U14	Capped
T	6012	241-TR-153-U13	Capped
T	6165	241-TR-153-U6	241-TR-152-L1, 2,3,4,5,6
T	6017	241-T-102-02C-U1	241-TR-153-L7
T	6041	241-T-102-02C-U2	241-TR-153-U3
T	Unknown	241-T-102-02B-U2	6006
T	6037	241-T-02A-U3	241-TR-152-L15
T	6038	241-T-102-02A-U2	241-TR-152-U4
T	6035	241-T-103-03C-U2	241-TR-152-U5
T	6014	241-T-103-03C-U1	241-TR-152-L10
T	Unknown	241-T-103-03B-U2	6002
T	6032	241-T-103-03A-U2	241-TR-152-U6
T	3170	241-TR-152-U8	241-TR-153-U1
T	6160	241-T-152-U9, 11,12	241-TR-153-U2
TX	V625	241-TX-116	241-TX-153-L19
TX	SN200	241-TX-116	241-TX-E
TX	SN201	241-TX-113-13A	SN206
TX	V621	241-TX-113	241-TX-153-L15
TX	V622	241-TX-113	241-TX-153-L16
TX	718	241-TX-113-13A	241-TX-115
TX	V827	241-TX-113	241-T-151-L2
TX	Unknown	241-TX-113	241-TX-114-14A
TX	Unknown	241-TX-113	241-TX-114
TX	Unknown	241-TX-109-09A-D	241-TX-117
TX	704	241-TX-109-09A-D	241-TX-103-A
TX	703	241-TX-109-09A-A	242-T-15-U3
TX	V618	241-TX-109	241-TX-153-L12
TX	V613	241-TX-105	241-TX-153-L7
TX	V619	241-TX-109	241-TX-153-L13
TX	Unknown	241-TX-109-09A-C	241-TX-05A-A
TX	Unknown	241-TX-109	241-TX-110
TX	V612	241-TX-105	241-TX-153-L6
TX	7359	241-TX-115-U4	241-TX-153-L17
TX	V616	241-TX-118	241-TX-153-L10
TX	720	241-TX-114	241-15V Valve Pit
TX	Drain	241-TX-105-05D	241-TXR-153
TX	7231	241-TX-105-05D-U1	241-TXR-153-L17
TX	7210	241-TX-105-05A-U1	241-TXR-153-L14
TX	Unknown	241-TX-105	241-TX-106
TX	706	241-TX-105-05A-C	241-TX-102-02A-A
TX	7220	241-TX-105-05C-U1	241-TXR-153-L12
TX	7247	241-TX-105-05C	241-TXR-153-U1
TX	7404	241-TX-101-01D-U2	241-TXR-152-U2
TX	7031	241-TX-101-01D-U1	241-TR-152-L18
TX	SN213/SN211	241-TX-101-01A	244-TX-B
TX	730	241-TX-110	241-TX-14B Valve Pit
TX	724	241-TX-111	TX-14B Valve Pit
TX	V831	241-TX-114	TX-14B Valve Pit
TX	SN204	244-TX-D	241-117-17A
TX	SN205	241-TX-114-14A	SN204
TX	SN206	241-TX-110-10A	SN204
TX	SN207	241-TX-106-06A	SN204
TX	707	241-TX-06A-A	241-TX-02-C
TX	V625	241-TX-116	241-TX-153-L19

Table 8. Inactive Transfer Lines

Farm	Transfer line identifier	Connection facility	Connection facility
TX	SN200	241-TX-116	244-TX-E
TX	SN201	241-TX-113-13A	SN206
TX	V621	241-TX-113	241-TX-153-L15
TX	V622	241-TX-113	241-TX-153-L16
TX	718	241-TX-113-13A	241-TX-115
TX	V827	241-TX-113	242-T-141-L2
TX	Unknown	241-TX-113	241-TX-114-14A
TX	Unknown	241-TX-113	241-TX-114
TX	Unknown	241-TX-116	241-TX-117
TX	704	241-TX-109-09A-D	241-TY-103-A
TX	703	241-TX-109-09A-A	241-T-151-U3
TX	V618	241-TX-109	241-TX-153-L12
TX	V613	241-TX-105	241-TX-153-L7
TX	V619	241-TX-109	241-TX-153-L13
TX	Unknown	241-TX-109-09A-C	241-TX-05A-A
TX	Unknown	241-TX-109	241-TX-110
TX	V612	241-TX-105	241-TX-153-L6
TX	7359	241-TX-115A-U4	241-TXR-153-L17
TX	V616	241-TX-118	241-TX-153-L10
TX	720	241-TX-114	241-15B Valve Pit
TX	Drain	241-TX-105-05D	241-TXR-153
TX	7231	241-TX-105-05D-U1	241-TXR-153-L17
TX	7210	241-TX-105-05A-U1	241-TXR-153-L14
TX	Unknown	241-TX-105	241-TX-106
TX	706	241-TX-105-05A-C	241-TX-102-02A-A
TX	7220	241-TX-105-05C-U1	241-TXR-153-L12
TX	7247	241-TX-105-05C	241-TXR-153-U1
TX	7404	241-TX-101-01D-U2	241-TXR-153-U2
TX	SN213/SN211	241-TX-101-01A	241-TX-B
TX	730	241-TX-110	241-TX-14B Valve Pit
TX	724	241-TX-111	241-TX-14B Valve Pit
TX	V831	241-TX-114	241-TX-14B Valve Pit
TX	SN204	241-TX-D	241-TX-117-17A
TX	SN205	241-TX-114-14A	SN204
TX	SN206	241-TX-110-10A	SN204
TX	SN207	241-TX-106-06A	SN204
TX	707	241-TX-06A-A	241-TX-02A-C
TX	714	241-TX-110-10A-C	241-TX-111-11A-A
TX	731	241-TX-117-17A	241-TX-118
TX	Unknown	241-T-117	241-TX-118
TX	Unknown	241-TX-114	241-TX-115
TX	721	241-TX-114-14A	241-TX-115
TX	715	241-TX-111-11A-C	241-TX-112-12A-A
TX	Unknown	241-TX-110	241-TX-111
TX	Unknown	241-TX-110A-A	241-TX-106-06A-C
TX	7238	241-TX-106-06D-U2	241-TXR-153-U4
TX	7235	241-TX-107-07C-U2	241-TXR-153-U5
TX	7217	241-TX-106-06C-U1	241-TXR-153-L9
TX	7244	241-TX-105-05D-U2	241-TXR-153-U2
TX	V615	241-TX-115	241-TX-153-L9
TX	SN209	241-TX-115-15A	SN208
TX	SN210	241-TX-111-11A	SN208
TX	SN208	241-TX-118-18A	244-TX-C
TX	V609	241-TX-101	241-TX-153-L3
TX	7010	241-TX-101-01A-U1	241-TXR-152-L14
TX	7020	241-TX-101-01C-U1	241-TXR-153-L12

Table 8. Inactive Transfer Lines

Farm	Transfer line identifier	Connection facility	Connection facility
TX	7047	241-TX-101-01C-U2	241-TXR-152-U1
TX	Drain	241-TX-101	241-TXR-152
TX	V608	241-TX-101	241-TX-153-L2
TX	7041	241-TX-102-02C-U2	241-TXR-152-U3
TX	7017	241-TX-102-02C-U1	241-TXR-152-L9
TX	708	241-TX-102-02A-D	241-TX-103-03A-A
TX	7006	241-TX-102-02A-U1	241-TXR-152-L14
TX	7037	241-TX-102-02D-U1	241-TSR-152-L19
TX	7237	241-TX-106-06D-U1	241-TXR-153-L19
TX	7241	241-TX-106-06C-U2	241-TXR-153-U3
TX	7038	241-TX-102-02D-U2	241-TXR-152-U4
TX	Unknown	241-TX-106-06A-D	241-TX-107-07A-C
TX	7206	241-TX-106-06A-U1	241-TXR-153-L15
TX	7035	241-TX-103-03C-U2	241-TXR-152-U5
TX	7032	241-TX-103-03D-U2	241-TXR-152-U6
TX	7164	241-TX-104-04C-U2	241-TXR-152-U7
TX	7166	241-TX-104-04D-U2	241-TXR-152-U8
TX	7632	241-TXR-152-L1, 2,3,4,5,6,7,8	241-TXR-151-U12
TX	7162	241-TX-104-04C-U1	241-TXR-152-L11
TX	7014	241-TX-103-03C-U1	241-TXR-152-L13
TX	7002	241-TX-103-03A-U1	241-TXR-152-L16
TX	7159	241-TX-105-05A-B	241-TXR-152-L17
TX	7628	241-TXR-152-U9	241-TXR-151-U7
TX	7012	241-TXR-152-U10, 12,13	241-TXR-151-U8
TX	7025	241-TXR-152-U11	241-TXR-151-U19
TX	V600	241-TXR-152-U14	241-TXR-153-U14/241-TX-153-U8
TX	7214	241-TX-107-07C-U1	241-TXR-153-L13
TX	7232	241-TX-107-07D	241-TXR-153-U6
TX	V617	241-TX-107	241-TX-153-L11
TX	709	241-TX-103-03A-C	241-TX-104-04A-A
TX	710	241-TX-108-08A-A	241-TX-104-04A-C
TX	Unknown	241-TX-107	241-TX-108
TX	711	241-TX-107-07A-A	241-TX-108-08A-C
TX	Unknown	241-TX-111	241-TX-112
TX	717	241-TX-118	15-D-Valve Pit/241-TX-112
TX	5193	241-TX-115-15A-U6	15-B Valve Pit
TX	5191	241-TX-115-15A-U1	15-X
TX	Unknown	241-TX-115	15-X
TX	750	241-TX-118-18A	241-TX-TX-115-15A-U2
TX	5185	241-TX-15A-U3	241-TXR-151-U11
TX	728	241-TX-118	241-TY-104-A
TX	723	241-TX-118-18A	242-T
TX	724	241-TX-118	242-T
TX	V831	TX-14B-Valve Pit	242-T-151-L1
TX	5185	242-T-151-U2	242-T
TX	7202	241-TX-107-07A-U1	241-TXR-153-L15
TX	7631	241-TXR-151-U15	24`-TXR-153-L1, 2,3,4,5,6,7,8
TX	7384	241-TX-108-08C-U2	241-TXR-153-U7
TX	7366	241-TX-108-08D-U2	241-TXR-153-U8
TX	7362	241-TX-108-08C-U1	241-TXR-153-L11
TX	Unknown	241-TZ	242-T
TX	7613	241-TXR-244-U2-Tank-003	241-TXR-151-L1
TX	Unknown	241-TXR-244-Tank-003	241-TXR-244-U2-Tank-001
TX	Unknown	241-TXR-244-Tank-002	241-TXR-244-U1-Tank-001
TX	7647	241-TXR-244-U1-Tank-003	241-TXR-151-L8
TX	7809	241-TXR-244-U2-Tank-002	241-TXR-151-L3

Table 8. Inactive Transfer Lines

Farm	Transfer line identifier	Connection facility	Connection facility
TX	7648	241-TXR-244-U1-Tank-002	241-TXR-151-L10
TX	7622	241-TXR-244-U3-Tank-001	241-TXR-151-L7
TX	7601	241-TXR-244-Tank-001	241-TXR-151-L5
TX	7625	241-TXR-151-U13	241-TXR-153-U9
TX	7212	241-TXR-151-U6	241-TXR-153-U10, 12, 13
TX	7225	241-TXR-151-U18	241-TXR-153-U11
TX	7644	241-TXR-151-U21, 23, 25	241-TXR-151-U21, 23, 25
TX	6025	241-TXR-151-U20	241-TR-152-U10
TX	7630	241-TXR-151-U17	241-TR-153-U9
TX	7636	241-TXR-151-U5	241-TX-153-L4
TX	7624	241-TXR-151-U14	Capped
TX	6012	241-TXR-151-U10	Capped
TX	Drain	241-TXR-244-002-Sump	241-TXR-151
TX	SN249	244-TX-A	704
TX	6012	244-TX-104	244-TX
TX	V604	241-TX-153-B1	241-TX-153-B2
TX	V606	241-TX-153-C2	219-1 Crib
TX	V603	241-TX-153-A1	241-TX-153-A2
TX	Drain	241-TX-302A	241-TX-153
TX	V598	241-TX-153-U1	241-TX-302A
TX	Drain	241-TX-302B	Encasement Drain
TX	Drain	241-TX-302A	Crib
TX	V413	241-TX-155-L20	241-TX-153-U3
TX	V-406	244-TX	241-TX-152
TX	V-410	241-TX-155	241-U-151
TX	TX-151 Drain Line	241-TX-154	241-TX-302C
TX	V-408	244-TX	241-TX-152
TX	V-402	244-TX	241-TX-152
TX	SN-202/203	PFP	244-TX
TX	V-387	241-TX-152	241-TX-154
TX	V-739	241-TX-302C	241-TX-154
TY	Unknown	241-TY-105	241-TY-106
TY	704	241-TY-103-A	241-TY-102
TY	Unknown	241-TY-103	241-TY-104
TY	Unknown	241-TY-101	241-TY-102
TY	V648	241-TY-101	241-TY-153-L11
TY	V649	241-TY-101	241-TY-153-L12
TY	724	241-TY-101-01A-A	241-TY-103-03A-A
TY	Unknown	241-TY-103-03A-A	241-TY-103-C
TY	726	241-TY-01A-C	241-TY-102-02A-A
TY	727	241-TY-102-02A-C	241-TY-104-04A-C
TY	V644	241-TY-103	241-TY-153-L7
TY	V645	241-TY-103	241-TY-153-L8
TY	Drain	241-TY-302A	241-TY-153
TY	V402	Capped	Capped
TY	V406	Capped	Capped
TY	V408	Capped	Capped
U	5012	241-UR-152	241-UR-151
U	5025	241-UR-152	241-UR-151
U	5225	241-UR-151	241-UR-153
U	5412	241-UR-151	241-UR-154
U	5425	241-UR-151	241-UR-154
U	5624	241-UR-152	241-UR-151
U	5626	241-UR-151	241-UR-154
U	5630	241-UR-152	241-UR-151
U	5632	241-UR-151	241-UR-154

Table 8. Inactive Transfer Lines

Farm	Transfer line identifier	Connection facility	Connection facility
U	4859/4703	241-TX-155	241-UX-154
U	SL101	241-UD	Blocked
U	V426	241-U-152	241-U-153
U	V458	241-U-153	240-S-151
U	V459	241-U-153	240-S-151
U	V460	241-U-153	240-S-151
U	V465	241-U-153	241-U-110
U	V466	241-U-153	241-U-110
U	V467	241-U-153	241-U-110
U	V470	241-U-153	241-U-107
U	V471	241-U-153	241-U-107
U	V471	241-U-153	241-U-107
U	V472	241-U-153	241-U-107
U	V472	241-U-153	241-U-107
U	5447	241-U-107-07C-U2	241-U-UR-154-1
U	5444	241-U-107-07A-U2	241-U-154-U2
U	5441	241-U-108-08C-U2	241-UR-154-U3
U	5438	241-U-108-08A-U2	241-UR-154-U4
U	5435	241-U-109-09C-U2	241-UR-154-U5
U	5432	241-U-109-09A-U2	241-UR-154-U6
U	5417	241-U-108-08C-U1	241-U-154-L7
U	5507	241-UR-154-L8	241-U-153-L8
U	5107/V473	241-UR-152	241-U-153-L11
U	5420	241-U-107-07C-U1	241-UR-154-L9
U	5414	241-U-109-09C-U1	241-UR-154-L10
U	5410	241-U-107-07A-U1	251-UR-154-L11
U	5406	241-U-108-08A-U1	241-UR-154-L12
U	5402	241-U-109-09A-U1	241-UR-154-L13
U	5431	241-U-107-07A	241-UR-154-L14
U	5437	241-U-108-08A-U3	241-UR-154-L15
U	Drain	241-U-107-07C	241-UR-154
U	SL108	241-U-107-07B-A	241-UD-R9
U	5076	241-UR-Tank-001	U-103, 109,108,105,107,102
U	SN206	241-U-107-07A-A	241-UD-R14
U	Drain	241-U-107-07A	Clean Out Box-U-31
U	SL108	241-U-110-10B-A	241-UD-R7
U	5041	241-U-102-02C-U2	241-UR-152-U3
U	5053	241-U-102-02C-U1	241-UR-152
U	SL111	241-U-102-02B-A	241-UB-R7
U	Drain	241-U-102-02A	P19 K1 Exhauster
U	5038	241-U-102-02A-U2	241-UR-152-U4
U	5006	241-U-102-02A-U1	241-UR-152-L12
U	SN211	241-U-102-02A-A	241-UB-R14
U	Drain	241-U-102-02A-C	Clean Out Boxes-U32, 33, 34
U	5037	241-U-102-02A-U3	241-UR-152-L15
U	5241	241-U-105-05C-U2	241-UR-153-U3
U	5631	241-UR-153-L1-6	241-UR-151-U13
U	5212	241-UR-153-U-9, 11,12	241-UR-151-U8
U	5644	241-UR-151-U-18, 19,21	241-UR-151-U-18, 19,21
U	SN2025	241-U-108-08A-A	241-UC-L15
U	SL105	241-U-108-08B-A	241-UC-L9
U	Drain	241-U-108-08A-C	Clean Out Box U-29
U	Drain	241-U-108-08A-B	P-20 Exhauster
U	5237	241-U-105-05A-U3	241-UR-153-L15
U	Drain	241-U-105-05C-U11	241-UR-153
U	Drain	241-U-105-05C-B	241-UA, 241-UB Flush Pits

Table 8. Inactive Transfer Lines

Farm	Transfer line identifier	Connection facility	Connection facility
U	SL112	241-U-105-05B-A	241-UA-L7
U	5238	241-7-105-051-U2	241-UR-153-U4
U	SN212	241-U-105-05C-A	241-U-L14
U	Drain	241-U-111-11A-E	241-UC
U	SN207	251-U-111-11A-A	241-UD-R20
U	SN215	241-U-111-11A-B	241-UD-R15
U	SN213	241-U-111-11A-C	241-UC-L15
U	SN207	241-U-111-11B-A	241-UC-L15
U	5235	241-U-106-06C-U2	241-UR-153-U5
U	5232	241-U-106-06A-U2	241-UR-153-U6
U	5625	241-UR-153-U8	241-UR-151-U11
U	5214	241-U-105-05A-U1	241-UR-153-L10
U	5206	241-U-105-05A-U1	241-UR-153-L12
U	5202	251-U-106-06A-U1	241-UR-153-L13
U	SN210	241-U-106-06C-A	241-UA-L15
U	SL110	241-U-06B	241-UA-L9
U	5002	241-U-103-03A-U1	241-UR-152-L13
U	5014	241-U-103-03C-U1	241-UR-152-L10
U	5035	241-U-103-03C-U2	241-UR-152-U5
U	5032	241-U-103-03A-U2	241-UB-R9
U	SL109	241-U-103-03B-A	Service Pit
U	SN209	241-U-103-03A-A	241-UB-R-15
U	SN202	241-UC-L12	241-UA-L1
U	SL102	241-UC-L10	241-UA-L3
U	SL104	241-U-109-09B-A	241-UC-L7
U	SL205	241-U-109-09A-A	241-UC-L14
U	V407	V201	241-U-252-L1
U	V488	241-U-201	241-U-252-L2
U	V489	241-U-202	241-U-252-L3
U	V490	241-U-203	241-U-252-L4
U	V491	241-U-203	241-U-252-L5
U	V492	241-U-203	241-U-252-L6
U	V493	241-U-204	241-U-252-L7
U	SL103	241-UD-RID	241-UB-R3
U	SN203	241-UC-R12	241-UB-R2
U	Flush	241-UC-L17	241-UC Flush Pit
U	Unknown	241-UC-L19	241-UD-R18
U	Unknown	241-UC-L19	241-UD-R19
U	Flush	241-UD-R17, R21	241-UD-Flush Pit/R-8
U	SN264	241-UD-R5	244-U-A Vault
U	SN265	241-UD-r4	244-UB-Vault
U	SN266	242-U-C	Capped
U	SN216	241-UD-R1/SN282	241-SY-B-R2
U	V427	241-U-152-15	241-U-153-U5
U	V461/V428	241-U-152-L6	241-U-153-U4
U	Drain	241-U-301-B	241-U-152
U	V716	241-U-301-B	244-U-E-Vault
U	V430	241-U-153-U9	241-U-151-L1
U	V410	241-U-151-U2	241-TX-155-L17
U	Unknown	241-UA-L18	241-UB-R-18
U	Unknown	241-UA-L19	241-UB-R19
U	Flush	241-UB-R-17, R-8, R-6	241-UB Flush Pit
U	Flush	241-UA-L8, L-7, L-6	241-UA Flush Pit
U	V416	241-U-152-U1	241-TX-153-U10
U	V422/V452	241-U-151	241-U-152
U	V398	241-U-152	241-TX-152

Table 8. Inactive Transfer Lines

Farm	Transfer line identifier	Connection facility	Connection facility
U	V-404	241-U-152	241-TX-152
U	V421/V453	241-U-151	241-U-152
U	241-U-151 Drain Line	241-U-152	241-U-301B
U	241-U-151 Drain Line	241-U-151	241-U-301B
U	SN-216/282	241-U-D	241-SY-B
U	SL-107	241-U-111	241-U-C
U	V-455	241-U-151	241-S-151
U	V-456	241-U-151	244-S
U	V-473	241-U-301B	241-U-152
UA	No number	241-UA	241-UB
UA	No number	241-UA	241-UB
UX	V-503/4700	241-UX-154	241-S-151
UX	V-505/4701	241-UX-154	241-S-151
UX	4977	241-UX-152-U4	241-WR
UX	V374	241-UX-U6	221-U
UX	V363	241-UX-154-U7	241-ER-151-U6
UX	V384	241-UX-154-U8	241-TX-155-U17
UX	V375	241-UX-154-U9	241-TX-155-U17
UX	V376	241-US-154-U10	241-TX-155-U15
UX	V362	241-UX-154	241-ER-151-U4
UX	V361	241-UX-154-U12	241-ER-151-U3
UX	V366	241-UX-154-U13	241-ER-151-U9
UX	V360	241-UX-154-L1	241-ER-151-U2/241-E1-151-Vent Station
UX	V379	241-UX-154-U16	241-UX-302A
UX	Drain	241-UX-302A	241-UX-154
UX	Unknown	241-UX-302A	291-U Stack
UX	4878	241-UX-154-L-2	241-WR
UX	V382	241-UX-154	241-TX-155-U11
UX	4851	241-UX-154-L-4	241-UTX-155-U3
UX	4702	241-UX-154-L-6	241-WR
UX	5613	244-UR-Tank-002-U2	241-UR-151-L1
UX	5609	244-UR-Tank-002-U2	251-U4-151-L3
UX	5653	244-UR-Tank-004	241-U4-151-L4
UX	5601	244-UR-Tank-001	241-U4-151-L5
UX	5622	244-UR-Tank-001-U3	241-UR-151-L7
UX	5647	244-UR-U1-Tank-001	241-UR-151-L8
UX	5648	244-UR-U1-Tank-002	241-UR-151-L10
UX	7785	244-UR	241-UR-151
UX	V392	241-TX-154-L2	241-TX-155-U18
UX	V736	241-TX-154-L6	291-5 STACK
UX	V391	241-TX-154	241-TX-155-U16
UX	V388	241-TX-154-L4	241-TX-152-U3
UX	V387	241-TX-154-L5	241-TX-152-U1
UX	V385	241-TX-154	Capped
UX	V384	241-TX-154-7	Capped
UX	V383	241-TX-154-L7	Capped
UX	Drain	241-TX-308C	241-TX-154
UX	V386	241-TX-155-V8	Capped
UX	V394	241-TX-155-A1	241-TX-155-A2
UX	V395	241-TX-155-B1	241-TX-155-B2
UX	V387	B155-U10	Capped
UX	V388	241-TX-155-U112	Capped
UX	V393	241-TX-302B	241-TX-155-V19
UX	Drain	241-TX-302B	241-TX-155
UX	7616	241-TX-155	241-TX-151-U2, U3
UX	V936	241-TX-155-L2	241-TX-153-U15

Table 8. Inactive Transfer Lines

Farm	Transfer line identifier	Connection facility	Connection facility
UX	V401	241-TX-155-L8	241-TX-153-U12
UX	V397	241-TX-155-L4	241-TX-153-U14
UX	V445	241-U-151-U1	241-T-151-L6
UX	820	241-TX-152-U5	To Drain
UX	V407	241-TX-155-L14	241-TX-153-U6
UX	V406	241-TX-155-L13	Capped
UX	V408	241-TX-155-L15	Capped
UX	V410	241-TX-155-L17	Capped
UX	V409	241-TX-155-L16	241-TX-153-U4
UX	V403	241-TX-155-L10	241-TX-153-U11
ER	V224	241-ER-311	241-ER-151, U-1
ER	V244ER	241-ER-152,2	241-ER-153,1
ER	SN-9808	241-ER-151,E-5	244-BX,N
ER	V-228	241-ER-151, U-10	241-ER-153,2
ER	V-229	241-ER-151, U-11	241-ER-152,3
ER	DR311	241-ER-152	241-ER-311
ER	V-226	241-ER-151	241-ER-311
ER	V-226-1	241-ER-151	241-ER-311
ER	241-ER-153 to 244-A Drain Line	241-ER-153	244-A
ER	V-361	241-ER-151	241-UX-154
ER	V-244CR	241-ER-153,9	244-CR-3, U-13
ER	V-362	241-ER-151	241-UX-154
ER	V-363	241-ER-151	241-UX-154
ER	V-364	241-ER-151	241-UX-154
ER	V-365	241-ER-151	241-UX-154

Table 9. Single-Shell Tank System/Double-Shell Tank System Interface Points

Farm	Transfer Line	From Facility	Interface Point	To Facility	Interface Point
A	Unknown Drain	241-A-164 Seal Pot	DST	241-A-350-Side Wall	N/A
A	Overflow	241-A-106 Side Wall	N/A	241-A-350-	DST
A	Drain-307	241-A-Service Pit	DST	241-A-350-D	N/A
A	Drain-306	241-A-A Flush Pit Floor Drain	DST	Drain-307	N/A
A	Drain-305	241-A-B-Floor Drain	DST	Drain-307	N/A
A	Drain-300	207-A-Pump Pit Floor Drain	DST	241-A-350-A	N/A
A	Drain-303	Clean Out Box A-5	DST	Drain-301	N/A
A	Drain-316	Clean Out Box A-8	DST	Drain-301	N/A
A	Drain-304	Clean Out Box A-9	DST	Drain-301	N/A
A	SL-107	241-A-01H-A	N/A	241-A-A-Valve Pit-L-5	DST
A	Flush Line	241-A-A-Flush Pit	N/A	241-A-A-Valve Pit-L17-L6-L8	DST
A	404/V-029/4004/G34/4029	202-A	N/A	241-A-A-Valve Pit-L-12	DST
A	SL-105	241-A-03D-A	N/A	241-A-B-Valve Pit-R5	DST
A	Flush Line	241-A-B-Flush Pit	N/A	241-A-B-Valve Pit-R6-R8-R17	DST
A	4001/T029	202-A	N/A	241-A-B-Valve Pit-R12	DST
A	V-021	241-A-151-L-25	N/A	241-AN-Valve Pit-L-12	DST
A	CND-323	216-A-40-Crib	DST	244-A-P-6	N/A
A	EFD-02	241-A-401 Condensate Building	N/A	241-A-401-Diversion Caisson	DST
A	EFD-92	241-A-401 Condensate Building	N/A	241-A-401-Diversion Caisson	DST
A	SN-207	241-A-A-L14	DST	241-A-01B-A	N/A
A	SL-102	241-A-B-R7	DST	241-A-06D-A	N/A
A	SL-106	241-A-B-R10	DST	241-A-02D-A	N/A
A	SN-202	241-A-B-R11	DST	241-A-06C-A	N/A
A	SN-205	241-A-B-R14	DST	241-A-03C-A	N/A
AW	V023 Encasement Drain	V-023 Encasement	N/A	241-AW-B-Valve Pit-Side Wall	DST
AW	V-021 Encasement Drain	V-021 Encasement	N/A	241-AW-A-Valve Pit-Side Wall	DST
AW	V-023	241-A-151-L-23	N/A	241-AW-B-Valve Pit-R-11	DST
AW	V-021	241-A-151-L-25	N/A	241-AW-A-Valve Pit-L-12	DST
AW	V-022 Encasement Drain	V-022 Encasement	N/A	241-AW-B-Valve Pit-Side Wall	DST
AW	V-022	244-AR-T-9-A	N/A	241-AW-B-Valve Pit-R12	DST
AX	CNDS-F102	241-AX-152	N/A	241-AX-501	DST
AX	PW-4508/B105	241-AX-152	DST	241-AZ-101	N/A
AX	PW-4511/B107/4601	241-AX-152	DST	241-AZ-102	N/A
AX	PW-4502/B1081/B108	241-AX-152	DST	241-AY-101	N/A
AX	SL-111	241-AX-A-L7	DST	241-AX-03A-A	N/A
AX	Drain-V713	241-AX-155	DST	241-AX-152	N/A
AX	Drain-331	Clean Out Box AX-22	DST	Drain-314	N/A
AX	PW-B-103	241-AX-101 – Side Wall	N/A	241-AX-152-B3	DST
AX	PW-4501/A1081/A108	241-AX-152	DST	241-AY-101	N/A
AX	PW-4505/B1061/B106	241-AX-152	DST	241-AY-102	N/A
AX	PW-4504/A1061/A106	241-AX-152	DST	241-AY-102	N/A
AX	SN-211	241-AX-A-L14	DST	241-AX-03D-A	N/A
AX	SN-208	241-AX-A-L15	DST	241-AX-01B-A	N/A
AX	SL-112	241-AX-B-R9	DST	241-AX-04A-A	N/A
AX	SN-209	241-AX-B-R14	DST	241-AX-02D-A	N/A
AX	SN-212	241-AX-B-R14	DST	241-AX-04B-A	N/A
AX	SL-108	241-AX-01A-A	N/A	241-AX-A-Valve Pit-L9	DST
AX	Flush Line	241-AX-A-Flush Pit	N/A	241-AX-A-Valve Pit-L6/L8/L17	DST
AX	SL-109	241-AX-02A-A	N/A	241-AX-B-Valve Pit-R7	DST
AX	Flush Line	241-AX-13-Flush Pit	N/A	241-AX-B-Valve Pit-R6/R8/R17	DST
AX	Drain-324	Clean Out Box-AX-21	DST	Drain-314	N/A
AX	Drain-332	Clean Out Box-AX-23	DST	Drain-314	N/A
AX	Drain-327	241-AX-SP-Floor Drain	DST	241-AX-WT-SP-137	N/A
AX	Drain-328	241-AX-B-Flush Pit	DST	Drain-327	N/A
AX	Drain-337	241-AX-A-Flush Pit	DST	Drain-327	N/A
AX	RW-Unknown	Hose Connection	N/A	241-AX-155-Exterior Wall	DST

Table 9. Single-Shell Tank System/Double-Shell Tank System Interface Points

Farm	Transfer Line	From Facility	Interface Point	To Facility	Interface Point
AY	PW-4021	241-AX-151-G-Cell	NA	2241-AY-151-L2	DST
AY	PW-4530	241-A-153-U1	NA	241-AY-151-U4	DST
AY	PSW-8028	241-AX-04D-U5	NA	241-AY-152-U7	DST
AY	PSW-8061	241-AX-04A-U5	NA	241-AY-152-L7	DST
AY	PSW-8027	241-AX-04C-U3	NA	241-AY-152-U16	DST
AY	PSW-8024	241-AX-02D-U5	NA	241-AY-152-U15	DST
AY	PSW-8062	241-AX-02A-U5	NA	241-AY-152-L6	DST
AY	PSW-8023	241-AX-02C-U3	NA	241-AY-152-U14	DST
AY	PSW-8063	241-AX-01A-U8	NA	241-AY-152-L5	DST
AY	PSW-8026	241-AX-01C-U5	NA	241-AY-152-U13	DST
AY	PSW-8025	241-AX-01D-U3	NA	241-AY-152-U12	DST
AY	PSW-8022	241-AX-03C-U5	NA	241-AY-152-U11	DST
AY	PSW-8021	241-AX-03D-U3	NA	241-AY-152-U10	DST
AY	PSW-8064	241-AX-03A-U8	NA	241-AY-152-L4	DST
AY	PSW-806	244-AR-T11	NA	241-AY-152-A	DST
AY	PSW-802	244-AR-T4	NA	241-AY-152-B	DST
AY	Condensate-101	241-AX-101-Side Wall	NA	241-AY-501-	DST
AY	Condensate-102	241-AX-102-Side Wall	NA	241-AY-501-	DST
AY	Condensate-103	241-AX-103-Side Wall	NA	241-AY-501-	DST
AY	Condensate-104	241-AX-104-Side Wall	NA	241-AY-501-	DST
AY	Condensate	Ion Exchange Effluent	NA	241-AY-501	DST
AY	NHW-V-714	202-A-F16	NA	241-AR-151-2	DST
AY	NHW-V-714-Encasement Drain	NHW-V-714-Encasement	NA	241-AR-151-3	DST
AY	PAW-V-716	244-AR-T-8	NA	241-AR-151-9	DST
AY	NHW-V-718/817/4019	244-AR-T-15	NA	241-AR-151-10	DST
AY	DrainV-717	244-AR-T9	DST	241-AR-151-Floor Drain	NA
AY	DR-0050	241-AY-501	DST	DR-0029	N/A
AY	PW-4523	LPD-AY-102A	DST	PW-4027/4526	N/A
AY	PW-4522	LPD-AY-101B	DST	PW-4526	N/A
AY	PW-4522	LPD-AY-101A	DST	PW-4S22	N/A
AY	PW-4021	241-AY-151	DST	241-AX-152	N/A
AZ	Condensate-F-561	216-A-08	N/A	241-AZ-F505	DST
BX	SN-215	241-BX-111	NA	244-BX-A	DST
BX	SN-208	241-BX-101	NA	244-BX-B	DST
BX	SN-200	241-BX-102	NA	244-BX-C	DST
BX	SN-207	241-BX-103-03A	NA	244-BX-D	DST
BX	SN-216	241-BX-110	NA	244-BX-E	DST
BX	SN-231	241-B-104/107/110	NA	244-BX-F	DST
BX	SN-227	241-B-108	NA	244-BX-G	DST
BX	SN-223	241-B-103	NA	244-BX-H	DST
BX	PAS-244	221-B-25.1	NA	241-ER-152-1	DST
BX	Overflow To Encasement	PAS-244-Encasement	NA	241-ER-152-5	DST
BX	V-228 (PAS)	241-CR-153-U6A	NA	241-ER-153-7	DST
BX	PAS-244	244-CR-U13	NA	241-ER-153-9	DST
BX	Overflow To Encasement	PAS-228 Encasement	NA	241-ER-153-8	DST
BX	9719/979	241-BXR-151-U24	NA	241-ER-151-L3	DST
BX	9653/243	221-B	NA	241-ER-151-L7	DST
BX	8653/8618	241-CR-151-U14	NA	241-ER-151-L9	DST
BX	V-225	241-B-151-U1	NA	241-ER-151-L10	DST
BX	V-365	Flow Transmitter Box	NA	241-ER-151-U8	DST
BX	V-219	B Facility Aqueous Waste	NA	241-ER-151-L2	DST
C	SL-100	241-C-06A-U9	DST	241-AY-02A-U11	NA
C	SL-100 Encasement Drain	241-C-06A-U8	DST	SL-100 Encasement	NA
C	SN-200	241-C-06C-U6	DST	241-AY-02E-U2	NA
C	SN-200 Encasement Drain	241-C-06C-U7	DST	SN-200 Encasement	NA

Table 9. Single-Shell Tank System/Double-Shell Tank System Interface Points

Farm	Transfer Line	From Facility	Interface Point	To Facility	Interface Point
S	SN-245	241-S-107-07A-8	N/A	244-S-18	DST
S	SN-246	241-S-107-07A-7	N/A	244-S-17	DST
S	SN-247	241-S-107-07A-7	N/A	244-S-17	DST
S	SN-248	241-S-107-07A-5	N/A	244-S-15	DST
S	SN-249	241-S-107-07A-4	N/A	244-S-14	DST
S	V-526	241-SX-151-U13	N/A	241-S-151-L4	DST
S	V-527	241-SX-151-U10	N/A	241-S-151-L5	DST
S	V-528	241-SX-151-U8	N/A	241-S151-L6	DST
S	V-529	241-SX-151-U6	N/A	241-S-151-L7	DST
S	V-530	241-SX-151-U4	N/A	241-S-151-L8	DST
S	V-533	216-S-Crib	N/A	241-S-151-L11	DST
S	V-534	241-S-110	N/A	241-S-151-L12	DST
S	V-535	241-S-110	N/A	241-S-151-L13	DST
S	V-536	241-S-107	N/A	241-S-151-L14	DST
S	V-537	241-S-107	N/A	241-S-151-L15	DST
S	V-538	241-S-104	N/A	241-S-151-L16	DST
S	V-539	241-S-104	N/A	241-S-151-L17	DST
S	V-540	241-S-107	N/A	241-S-151-L18	DST
S	V-541	241-S-101	N/A	241-S-151-L19	DST
S	V-508	240-S-151-L17	N/A	241-S-151-U6	DST
S	V-509	240-S-151-L16	N/A	241-S-151-U7	DST
S	V-512	240-S-151-L13	N/A	241-S-151-U10	DST
S	V-513	240-S-151-L12	N/A	241-S-151-U11	DST
S	V-514	240-S-151-L6	N/A	241-S-151-U12	DST
S	V-515	240-S-151-L9	N/A	241-S-151-U14	DST
S	V-516	240-S-151-L7	N/A	241-S-151-U15	DST
S	V-517	202-S-Lab Waste	N/A	241-S-S-151-U16	DST
S	V-519	240-S-151-L2	N/A	241-S-151-U18	DST
SY	SN-283	242-S-13	N/A	241-SY-102-023-A	DST
SY	SN-283 Encasement Drain	SN-283-Encasement	N/A	241-SY-102-02E- Side Wall	DST
SY	SN-284	242-S-14	N/A	241-SY-02E-B	DST
SY	SN-284 Encasement Drain	SN-284-Encasement	N/A	241-SY-102-02E Side Wall	DST
SY	Drain-375	Clean Out Box-SY-1	N/A	241-SY-102-02D-B	DST
SY	Drain-375-Encasement Drain	Drain-375-Encasement	N/A	241-SY-102-02D Side Wall	DST
SY	SN-275	241-S-A-L20	N/A	241-SY-A-Valve Pit-L1	DST
SY	SN-281	241-S-152-10	N/A	241-SY-A-Valve Pit-L2	DST
SY	SN-281 Encasement	SN-281 Encasement	N/A	241-SY-A-Valve Pit Side Wall	DST
SY	SL-175	242-S-19	N/A	241-SY-A-Valve Pit-L3	DST
SY	SL-175 Encasement Drain	SL-175 Encasement	N/A	241-SY-A-Valve Pit Side Wall	DST
SY	SN-276	241-S-B-R-20	N/A	241-SY-B-Valve Pit-R1	DST
SY	SN-282/SN-216	241-U-D-R1	N/A	241-SY-B-Valve Pit-R2	DST
SY	SN-282/SN-216 Encasement Drain	SN-282/SN-216 Encasement	N/A	241-SY-B-Valve Pit-Side Wall	DST
SY	SL-176	241-S-152-8	N/A	241-SY-B-Valve Pit-R3	DST
SY	SL-176 Encasement Drain	SL-176 Encasement	N/A	241-SY-B-Valve Pit-Sidewall	DST

Table 9. Single-Shell Tank System/Double-Shell Tank System Interface Points

Farm	Transfer Line	From Facility	Interface Point	To Facility	Interface Point
TX	SN-249	241-TY-103/241-TX-109	NA	244-TX-A	DST
TX	SN-211	241-TX-112	NA	244-TX-B	DST
TX	SN-208	241-TX-118	NA	244-TX-C	DST
TX	SN-204	241-TX-117	NA	244-TX-D	DST
TX	SN-200	241-TX-116	NA	244-TX-E	DST
TX	SN-6012	241-T-104	NA	244-TX-H	DST
TX	SB-7624	241-T-111	NA	244-TX-I	DST
TX	V-387	241-TX-154-L5	NA	241-TX-152-U1	DST
TX	V-387 Encasement Drain	V-387 Encasement	NA	241-TX-152-L2	DST
TX	V-388	241-TX-154-L4	NA	241-TX-152-U3	DST
TX	V-388 Encasement Drain	V-388 Encasement	NA	241-TX-152-L4	DST
TX	Drain-820	V-383, 4,5,7,8,391,392 Concrete Encasement	NA	241-TX-152-U5	DST
TX	Drain-820 Encasement Drain	Drain-820-Encasement	N/A	241-TX-152-L6	DST
TX	RW-	Hose Connection	N/A	241-TX-152-Spray Nozzle	DST
TX	RW-	Hose Connection	N/A	241-TX-152 External	DST
TX	RW-	Hose Connection	N/A	241-TX-152 Wall	DST
TX	RW-	Hose Connection	N/A	241-TX-152	DST
TX	RW-	Hose Connection	N/A	241-TX-152	DST
TX	RW-	Hose Connection	N/A	241-TX-152	DST
U	V-450	241-U-153-U9	N/A	241-U-151-L1	DST
U	V-445	241-T-151-L6	N/A	241-U-151-U-1	DST
U	V-410	241-TX-155-L17	N/A	241-U-151-U2	DST
U	V-426	241-U-153-U6	N/A	241-U-152-L4	DST
U	V-427	241-U-153-U5	N/A	241-U-152-L5	DST
U	V-428/V-461	241-U-153-U4	N/A	241-U-152-L6	DST
U	V-416	241-TX-153-U10	N/A	241-U-152-U1	DST
U	V-473	241-U-252-Floor Drain	N/A	241-U-301-B-Catch Tank	DST
U	4878	241-WR-Tank-Pump	N/A	241-UX-154-L2	DST
U	V-382	241-TX-155-U-11	N/A	241-UX-154-L3	DST
U	4851	241-TX-155-U3	N/A	241-UX-154-L4	DST
U	4703/4859	241-TX-155-U2	N/A	241-UX-154-L5	DST
U	4702	241-WR	N/A	241-UX-154-L6	DST
U	4853/V-762	241-SX-152	N/A	241-UX-154-L9	DST
U	V-374	221-USEC-5CONN-101	N/A	241-UX-154-U6	DST
U	V-375	241-TX-155-U17	N/A	241-UX-154-U9	DST
U	V-376	241-TX-155-U15	N/A	241-UX-154-U10	DST
U	4977	241-WR-Vault	N/A	241-UX-154-U4	DST

Table 10. Miscellaneous Structures

Structure Number	Associated Line Number /Component	Year of Construction	Year Removed from Service
COB-A-10	SL-101	1955	2005
COB-A-11	SL-100	1955	2005
COB-A-12	SL-101	1955	2005
COB-A-13	SL-100	1955	2005
COB-A-30	DR-334	1955	2005
COB-AX-14	SL-101	1964	2005
COB-AX-15	SL-100	1964	2005
COB AX-16	SL-101	1964	2005
COB AX-17	SL-100	1964	2005
COB AX-18	SL-101	1964	2005
COB AX-19	SL-100	1964	2005
COB AX-24	SL-100	1964	2005
COB AX-25	SL-100	1964	2005
SP-137, AX (Seal Pot)	DR-326,DR-327,DR -314	1964	2005
241-AZ-154	F560, F602, F604, DR-0079	1976	2006

200-W-126	N/A	1967	1995

Attachment 4
08-ESQ-223

222-S Dangerous and Mixed Waste TSD
Part A of Application for Dangerous Waste Permit

WASHINGTON STATE DEPARTMENT OF ECOLOGY

Dangerous Waste Permit Application Part A Form

Date Received	Reviewed by:	Date:
Month Day Year	Approved by:	Date:

I. This form is submitted to: (place an "X" in the appropriate box)

☐	**Request modification to a final status permit (commonly called a "Part B" permit)**
☒	**Request a change under interim status**
☐	**Apply for a final status permit. This includes the application for the initial final status permit for a site or for a permit renewal (i.e., a new permit to replace an expiring permit).**
☐	**Establish interim status because of the wastes newly regulated on:** (Date)
	List waste codes:

II. EPA/State ID Number

W A 7 8 9 0 0 0 8 9 6 7

III. Name of Facility

US Department of Energy – Hanford Facility

IV. Facility Location (Physical address not P.O. Box or Route Number)

A. Street

825 Jadwin

City or Town	State	ZIP Code
Richland	WA	99352

County Code (if known)	County Name
0 0 5	Benton

B. Land Type	C. Geographic Location Latitude (degrees, mins, secs)	Longitude (degrees, mins, secs)	D. Facility Existence Date Month Day Year
F	Refer to TOPO Map (Section XV.)		0 3 0 2 1 9 4 3

V. Facility Mailing Address

Street or P.O. Box

P.O. Box 450

City or Town	State	ZIP Code
Richland	WA	99352

VI. Facility contact (Person to be contacted regarding waste activities at facility)		
Name (last)	(first)	
Olinger	Shirley	
Job Title	Phone Number (area code and number)	
Manager	(509) 372-3062	
Contact Address		
Street or P.O. Box		
P.O. Box 450		
City or Town	State	ZIP Code
Richland	WA	99352

VII. Facility Operator Information	
A. Name	Phone Number
Department of Energy Owner/Operator Washington River Protection Solutions, LLC Co-Operator for 222-S Dangerous and Mixed Waste TSD Unit*	(509) 372-3062 (509) 372-9138*
Street or P.O. Box	
P.O. Box 450 P.O. Box 850*	
City or Town	State / ZIP Code
Richland	WA / 99352
B. Operator Type: F	
C. Does the name in VII.A reflect a proposed change in operator?	☐ Yes ☒ No Co-Operator* change
If yes, provide the scheduled date for the change:	Month 10 Day 01 Year 2008
D. Is the name listed in VII.A. also the owner? If yes, skip to Section VIII.C.	☐ Yes ☒ No

VIII. Facility Owner Information	
A. Name	Phone Number (area code and number)
Shirley J Olinger, Operator/Facility-Property Owner	(509) 372-3062
Street or P.O. Box	
P.O. Box 450	
City or Town	State / ZIP Code
Richland	WA / 99352
B. Owner Type: F	
C. Does the name in VIII.A reflect a proposed change in owner?	☐ Yes ☒ No
If yes, provide the scheduled date for the change:	Month Day Year

IX. NAICS Codes (5/6 digit codes)													
A. First							B. Second						
5	6	2	2	1		Waste Treatment & Disposal	9	2	4	1	1	0	Administration of Air & Water Resource & Solid Waste Management Programs
C. Third							D. Fourth						
5	4	1	7	1		Research & Development in the Physical, Engineering, & Life Sciences							

X. Other Environmental Permits (see instructions)

A. Permit Type	B. Permit Number	C. Description
E	FF-01	Hanford Site Radioactive Air Emissions License #FF-01 Emission Unit ID: 254 and 337. (296-S-21 and 296-S-16 Stacks, respectively)

XI. Nature of Business (provide a brief description that includes both dangerous waste and non-dangerous waste areas and activities)

This unit was previously known as the *222-S Laboratory Complex*. The name was changed to the *222-S Dangerous and Mixed Waste TSD Unit* to clarify the boundaries of the TSD units subject to this Permit. 'TSD component' is used to define a subdivision of the overall TSD unit.

The 222-S Dangerous and Mixed Waste TSD Unit includes four TSD components: 219-S Waste Handling Facility, 222-S Dangerous and Mixed Waste Storage Area (DMWSA), Room 4-E container storage area (Room 4-E), and the northern portion of Room 2-B container storage area (Room 2-B).

The 219-S Waste Handling Facility includes the 219-S Tank System (Tanks 101, 102, 103, and 104 and ancillary equipment), operating gallery, and sample gallery, and is located northeast of the 222-S Laboratory building. The DMWSA is located north of the 222-S Laboratory building. Rooms 2-B and 4-E are located within (north side) the 222-S Laboratory building, which is located in the 200 West Area of the Hanford Facility. The 222-S Laboratory began laboratory and waste management operations in June 1951.

S01 Storage in Containers

The maximum process design capacity for container storage is 28,470 liters. Containers containing dangerous and/or mixed waste are stored in the DMWSA, Room 4-E, and the northern portion of Room 2-B.

S02 Storage in Tanks

The 219-S Waste Handling Facility houses the 219-S Tank System, which comprises four tanks, three active and one inactive (tanks 101, 102, 104, and 103 respectively). Tank 103 is located within the 219-S Tank System, but was drained, isolated, and rinsed and is no longer used for waste management.

The maximum process design capacity for tank storage is 37,472 liters. Tanks 101, 102, and 104 are used for dangerous and mixed waste storage.

T01 Treatment in Tanks

The maximum process design capacity for treatment in tanks is 37,472 liters. Tanks 101, 102, and 104 are used for dangerous and mixed waste treatment.

Note: Although tank 201(Page 26, (Figure 219-S Waste Handling Facility) is indicated as being within the TSD unit boundary, its sole function is to provide caustic solution for waste treatment within Tanks 101, 102, and 104. Mixed and/or dangerous waste is not treated, stored, or disposed of within Tank 201, and therefore this tank is not considered a permitted TSD component.

WL01 and WL02 addresses lab packs containing state-only waste.

EXAMPLE FOR COMPLETING ITEMS XII and XIII (shown in lines numbered X-1, X-2, and X-3 below): A facility has two storage tanks that hold 1200 gallons and 400 gallons respectively. There is also treatment in tanks at 20 gallons/hr. Finally, a one-quarter acre area that is two meters deep will undergo *in situ vitrification*.

Section XII. Process Codes and Design Capacities								Section XIII. Other Process Codes								
Line Number		A. Process Codes (enter code)			B. Process Design Capacity		C. Process Total Number of Units	Line Number		A. Process Codes (enter code)			B Process Design Capacity		C. Process Total Number of Units	D. Process Description
					1. Amount	2. Unit of Measure (enter code)							1. Amount	2. Unit of Measure (enter code)		
X	1	S	0	2	1,600	G	002	X	1	T	0	4	700	C	001	In situ vitrification
X	2	T	0	3	20	E	001									
X	3	T	0	4	700	C	001									
	1	S	0	2	37,472	L	003		1							
	2	T	0	1	37,472	L	003		2							
	3	S	0	1	28,470	L	003		3							
	4								4							
	5								5							
	6								6							
	7								7							
	8								8							
	9								9							
1	0							1	0							
1	1							1	1							
1	2							1	2							
1	3							1	3							
1	4							1	4							
1	5							1	5							
1	6							1	6							
1	7							1	7							
1	8							1	8							
1	9							1	9							
2	0							2	0							
2	1							2	1							
2	2							2	2							
2	3							2	3							
2	4							2	4							
2	5							2	5							

XIV. Description of Dangerous Wastes

Example for completing this section: A facility will receive three non-listed wastes, then store and treat them on-site. Two wastes are corrosive only, with the facility receiving and storing the wastes in containers. There will be about 200 pounds per year of each of these two wastes, which will be neutralized in a tank. The other waste is corrosive and ignitable and will be neutralized then blended into hazardous waste fuel. There will be about 100 pounds per year of that waste, which will be received in bulk and put into tanks.

Line Number			A. Dangerous Waste No.				B. Estimated Annual Quantity of Waste	C. Unit of Measure	D. Processes									
									(1) Process Codes									(2) Process Description [If a code is not entered in D(1)]
X	1		D	0	0	2	400	P	S	0	1	T	0	1				
X	2		D	0	0	1	100	P	S	0	2	T	0	1				
X	3		D	0	0	2												Included with above
		1	D	0	0	1	283,955	K	S	0	2	T	0	1				
		2	D	0	0	2		K	S	0	2	T	0	1				
		3	D	0	0	3		K	S	0	2	T	0	1				
		4	D	0	0	4		K	S	0	2	T	0	1				
		5	D	0	0	5		K	S	0	2	T	0	1				
		6	D	0	0	6		K	S	0	2	T	0	1				
		7	D	0	0	7		K	S	0	2	T	0	1				
		8	D	0	0	8		K	S	0	2	T	0	1				
		9	D	0	0	9		K	S	0	2	T	0	1				
	1	0	D	0	1	0		K	S	0	2	T	0	1				
	1	1	D	0	1	1		K	S	0	2	T	0	1				
	1	2	D	0	1	8		K	S	0	2	T	0	1				
	1	3	D	0	1	9		K	S	0	2	T	0	1				
	1	4	D	0	2	2		K	S	0	2	T	0	1				
	1	5	D	0	2	8		K	S	0	2	T	0	1				
	1	6	D	0	2	9		K	S	0	2	T	0	1				
	1	7	D	0	3	0		K	S	0	2	T	0	1				
	1	8	D	0	3	3		K	S	0	2	T	0	1				
	1	9	D	0	3	4		K	S	0	2	T	0	1				
	2	0	D	0	3	5		K	S	0	2	T	0	1				
	2	1	D	0	3	6		K	S	0	2	T	0	1				
	2	2	D	0	3	8		K	S	0	2	T	0	1				
	2	3	D	0	3	9		K	S	0	2	T	0	1				
	2	4	D	0	4	0		K	S	0	2	T	0	1				
	2	5	D	0	4	1		K	S	0	2	T	0	1				

EPA/State ID Number	W	A	7	8	9	0	0	0	8	9	6	7

Line Number	A. Dangerous Waste No.	B. Estimated Annual Quantity of Waste	C. Unit of Measure	D. Process (1) Process Codes									D. Process (2) Process Description [If a code is not entered in D(1)]
26	D043		K	S02	T01								
27	WP01		K	S02	T01								
28	WP02		K	S02	T01								
29	WT01		K	S02	T01								
30	WT02		K	S02	T01								
31	F001		K	S02	T01								
32	F002		K	S02	T01								
33	F003		K	S02	T01								
34	F004		K	S02	T01								
35	F005		K	S02	T01								
36	F039		K	S02	T01								
37	D001	48,840	K	S01									
38	D002		K	S01									
39	D003		K	S01									
40	D004		K	S01									
41	D005		K	S01									
42	D006		K	S01									
43	D007		K	S01									
44	D008		K	S01									
45	D009		K	S01									
46	D010		K	S01									
47	D011		K	S01									
48	D012		K	S01									
49	D013		K	S01									
50	D014		K	S01									
51	D015		K	S01									
52	D016		K	S01									
53	D017		K	S01									
54	D018		K	S01									
55	D019		K	S01									
56	D020		K	S01									
57	D021		K	S01									
58	D022		K	S01									
59	D023		K	S01									
60	D024		K	S01									
61	D025		K	S01									
62	D026		K	S01									
63	D027		K	S01									
64	D028		K	S01									
65	D029		K	S01									

EPA/State ID Number	W	A	7	8	9	0	0	0	8	9	6	7

Line Number	A. Dangerous Waste No.	B. Estimated Annual Quantity of Waste	C. Unit of Measure	D. Process (1) Process Codes									D. Process (2) Process Description [If a code is not entered in D(1)]
66	D 0 3 0		K	S 0 1									
67	D 0 3 1		K	S 0 1									
68	D 0 3 2		K	S 0 1									
69	D 0 3 3		K	S 0 1									
70	D 0 3 4		K	S 0 1									
71	D 0 3 5		K	S 0 1									
72	D 0 3 6		K	S 0 1									
73	D 0 3 7		K	S 0 1									
74	D 0 3 8		K	S 0 1									
75	D 0 3 9		K	S 0 1									
76	D 0 4 0		K	S 0 1									
77	D 0 4 1		K	S 0 1									
78	D 0 4 2		K	S 0 1									
79	D 0 4 3		K	S 0 1									
80	W P C B		K	S 0 1									
81	W P 0 1		K	S 0 1									
82	W P 0 2		K	S 0 1									
83	W P 0 3		K	S 0 1									
84	W S C 2		K	S 0 1									
85	W T 0 1		K	S 0 1									
86	W T 0 2		K	S 0 1									
87	F 0 0 1		K	S 0 1									
88	F 0 0 2		K	S 0 1									
89	F 0 0 3		K	S 0 1									
90	F 0 0 4		K	S 0 1									
91	F 0 0 5		K	S 0 1									
92	F 0 0 6		K	S 0 1									
93	F 0 0 7		K	S 0 1									
94	F 0 0 8		K	S 0 1									
95	F 0 0 9		K	S 0 1									
96	F 0 1 0		K	S 0 1									
97	F 0 1 1		K	S 0 1									
98	F 0 1 2		K	S 0 1									
99	F 0 1 9		K	S 0 1									
100	F 0 2 0		K	S 0 1									

EPA/State ID Number	W	A	7	8	9	0	0	0	8	9	6	7

Line Number	A. Dangerous Waste No.	B. Estimated Annual Quantity of Waste	C. Unit of Measure	D. Process (1) Process Codes									D. Process (2) Process Description [If a code is not entered in D(1)]
101	F021		K	S01									
102	F022		K	S01									
103	F023		K	S01									
104	F026		K	S01									
105	F027		K	S01									
106	F028		K	S01									
107	F039		K	S01									
108	U001		K	S01									
109	U002		K	S01									
110	U003		K	S01									
111	U004		K	S01									
112	U005		K	S01									
113	U006		K	S01									
114	U007		K	S01									
115	U008		K	S01									
116	U009		K	S01									
117	U010		K	S01									
118	U011		K	S01									
119	U012		K	S01									
120	U014		K	S01									
121	U015		K	S01									
122	U016		K	S01									
123	U017		K	S01									
124	U018		K	S01									
125	U019		K	S01									
126	U020		K	S01									
127	U021		K	S01									
128	U022		K	S01									
129	U023		K	S01									
130	U024		K	S01									
131	U025		K	S01									
132	U026		K	S01									
133	U027		K	S01									
134	U028		K	S01									
135	U029		K	S01									

EPA/State ID Number	W	A	7	8	9	0	0	0	8	9	6	7

Line Number	A. Dangerous Waste No.	B. Estimated Annual Quantity of Waste	C. Unit of Measure	D. Process (1) Process Codes									D. Process (2) Process Description [If a code is not entered in D(1)]
136	U 0 3 0		K	S 0 1									
137	U 0 3 1		K	S 0 1									
138	U 0 3 2		K	S 0 1									
139	U 0 3 3		K	S 0 1									
140	U 0 3 4		K	S 0 1									
141	U 0 3 5		K	S 0 1									
142	U 0 3 6		K	S 0 1									
143	U 0 3 7		K	S 0 1									
144	U 0 3 8		K	S 0 1									
145	U 0 3 9		K	S 0 1									
146	U 0 4 1		K	S 0 1									
147	U 0 4 2		K	S 0 1									
148	U 0 4 3		K	S 0 1									
149	U 0 4 4		K	S 0 1									
150	U 0 4 5		K	S 0 1									
151	U 0 4 6		K	S 0 1									
152	U 0 4 7		K	S 0 1									
153	U 0 4 8		K	S 0 1									
154	U 0 4 9		K	S 0 1									
155	U 0 5 0		K	S 0 1									
156	U 0 5 1		K	S 0 1									
157	U 0 5 2		K	S 0 1									
158	U 0 5 3		K	S 0 1									
159	U 0 5 5		K	S 0 1									
160	U 0 5 6		K	S 0 1									
161	U 0 5 7		K	S 0 1									
162	U 0 5 8		K	S 0 1									
163	U 0 5 9		K	S 0 1									
164	U 0 6 0		K	S 0 1									
165	U 0 6 1		K	S 0 1									
166	U 0 6 2		K	S 0 1									
167	U 0 6 3		K	S 0 1									
168	U 0 6 4		K	S 0 1									
169	U 0 6 6		K	S 0 1									
170	U 0 6 7		K	S 0 1									

EPA/State ID Number	W	A	7	8	9	0	0	0	8	9	6	7

Line Number	A. Dangerous Waste No.	B. Estimated Annual Quantity of Waste	C. Unit of Measure	D. Process (1) Process Codes									D. Process (2) Process Description [If a code is not entered in D(1)]
171	U068		K	S01									
172	U069		K	S01									
173	U070		K	S01									
174	U071		K	S01									
175	U072		K	S01									
176	U073		K	S01									
177	U074		K	S01									
178	U075		K	S01									
179	U076		K	S01									
180	U077		K	S01									
181	U078		K	S01									
182	U079		K	S01									
183	U080		K	S01									
184	U081		K	S01									
185	U082		K	S01									
186	U083		K	S01									
187	U084		K	S01									
188	U085		K	S01									
189	U086		K	S01									
190	U087		K	S01									
191	U088		K	S01									
192	U089		K	S01									
193	U090		K	S01									
194	U091		K	S01									
195	U092		K	S01									
196	U093		K	S01									
197	U094		K	S01									
198	U095		K	S01									
199	U096		K	S01									
200	U097		K	S01									
201	U098		K	S01									
202	U099		K	S01									
203	U101		K	S01									
204	U102		K	S01									
205	U103		K	S01									

EPA/State ID Number	W	A	7	8	9	0	0	0	8	9	6	7

Line Number	A. Dangerous Waste No.	B. Estimated Annual Quantity of Waste	C. Unit of Measure	D. Process (1) Process Codes									D. Process (2) Process Description [If a code is not entered in D(1)]
206	U105		K	S01									
207	U106		K	S01									
208	U107		K	S01									
209	U108		K	S01									
210	U109		K	S01									
211	U110		K	S01									
212	U111		K	S01									
213	U112		K	S01									
214	U113		K	S01									
215	U114		K	S01									
216	U115		K	S01									
217	U116		K	S01									
218	U117		K	S01									
219	U118		K	S01									
220	U119		K	S01									
221	U120		K	S01									
222	U121		K	S01									
223	U122		K	S01									
224	U123		K	S01									
225	U124		K	S01									
226	U125		K	S01									
227	U126		K	S01									
228	U127		K	S01									
229	U128		K	S01									
230	U129		K	S01									
231	U130		K	S01									
232	U131		K	S01									
233	U132		K	S01									
234	U133		K	S01									
235	U134		K	S01									
236	U135		K	S01									
237	U136		K	S01									
238	U137		K	S01									
239	U138		K	S01									
240	U140		K	S01									

EPA/State ID Number	W	A	7	8	9	0	0	0	8	9	6	7

Line Number	A. Dangerous Waste No.	B. Estimated Annual Quantity of Waste	C. Unit of Measure	D. Process (1) Process Codes									D. Process (2) Process Description [If a code is not entered in D(1)]
241	U141		K	S01									
242	U142		K	S01									
243	U143		K	S01									
244	U144		K	S01									
245	U145		K	S01									
246	U146		K	S01									
247	U147		K	S01									
248	U148		K	S01									
249	U149		K	S01									
250	U150		K	S01									
251	U151		K	S01									
252	U152		K	S01									
253	U153		K	S01									
254	U154		K	S01									
255	U155		K	S01									
256	U156		K	S01									
257	U157		K	S01									
258	U158		K	S01									
259	U159		K	S01									
260	U160		K	S01									
261	U161		K	S01									
262	U162		K	S01									
263	U163		K	S01									
264	U164		K	S01									
265	U165		K	S01									
266	U166		K	S01									
267	U167		K	S01									
268	U168		K	S01									
269	U169		K	S01									
270	U170		K	S01									
271	U171		K	S01									
272	U172		K	S01									
273	U173		K	S01									
274	U174		K	S01									
275	U176		K	S01									

EPA/State ID Number	W	A	7	8	9	0	0	0	8	9	6	7

Line Number	A. Dangerous Waste No.	B. Estimated Annual Quantity of Waste	C. Unit of Measure	D. Process (1) Process Codes									D. Process (2) Process Description [If a code is not entered in D(1)]
276	U177		K	S01									
277	U178		K	S01									
278	U179		K	S01									
279	U180		K	S01									
280	U181		K	S01									
281	U182		K	S01									
282	U183		K	S01									
283	U184		K	S01									
284	U185		K	S01									
285	U186		K	S01									
286	U187		K	S01									
287	U188		K	S01									
288	U189		K	S01									
289	U190		K	S01									
290	U191		K	S01									
291	U192		K	S01									
292	U193		K	S01									
293	U194		K	S01									
294	U199		K	S01									
295	U200		K	S01									
296	U201		K	S01									
297	U202		K	S01									
298	U203		K	S01									
299	U204		K	S01									
300	U205		K	S01									
301	U206		K	S01									
302	U207		K	S01									
303	U208		K	S01									
304	U209		K	S01									
305	U210		K	S01									
306	U211		K	S01									
307	U212		K	S01									
308	U213		K	S01									
309	U214		K	S01									
310	U215		K	S01									

EPA/State ID Number	W	A	7	8	9	0	0	0	8	9	6	7

Line Number	A. Dangerous Waste No.	B. Estimated Annual Quantity of Waste	C. Unit of Measure	D. Process (1) Process Codes									D. Process (2) Process Description [If a code is not entered in D(1)]
311	U216		K	S01									
312	U217		K	S01									
313	U218		K	S01									
314	U219		K	S01									
315	U220		K	S01									
316	U221		K	S01									
317	U222		K	S01									
318	U223		K	S01									
319	U225		K	S01									
320	U226		K	S01									
321	U227		K	S01									
322	U228		K	S01									
323	U234		K	S01									
324	U235		K	S01									
325	U236		K	S01									
326	U237		K	S01									
327	U238		K	S01									
328	U239		K	S01									
329	U240		K	S01									
330	U243		K	S01									
331	U244		K	S01									
332	U246		K	S01									
333	U247		K	S01									
334	U248		K	S01									
335	U249		K	S01									
336	U271		K	S01									
337	U278		K	S01									
338	U279		K	S01									
339	U280		K	S01									
340	U328		K	S01									
341	U353		K	S01									
342	U359		K	S01									
343	U364		K	S01									
344	U367		K	S01									
345	U372		K	S01									

EPA/State ID Number	W	A	7	8	9	0	0	0	8	9	6	7

Line Number	A. Dangerous Waste No.	B. Estimated Annual Quantity of Waste	C. Unit of Measure	D. Process (1) Process Codes									D. Process (2) Process Description [If a code is not entered in D(1)]
346	U373		K	S01									
347	U387		K	S01									
348	U389		K	S01									
349	U394		K	S01									
350	U395		K	S01									
351	U404		K	S01									
352	U409		K	S01									
353	U410		K	S01									
354	U411		K	S01									
355	P001		K	S01									
356	P002		K	S01									
357	P003		K	S01									
358	P004		K	S01									
359	P005		K	S01									
360	P006		K	S01									
361	P007		K	S01									
362	P008		K	S01									
363	P009		K	S01									
364	P010		K	S01									
365	P011		K	S01									
366	P012		K	S01									
367	P013		K	S01									
368	P014		K	S01									
369	P015		K	S01									
370	P016		K	S01									
371	P017		K	S01									
372	P018		K	S01									
373	P020		K	S01									
374	P021		K	S01									
375	P022		K	S01									
376	P023		K	S01									
377	P024		K	S01									
378	P026		K	S01									
379	P027		K	S01									
380	P028		K	S01									

EPA/State ID Number	W	A	7	8	9	0	0	0	8	9	6	7

Line Number	A. Dangerous Waste No.	B. Estimated Annual Quantity of Waste	C. Unit of Measure	D. Process (1) Process Codes									D. Process (2) Process Description [If a code is not entered in D(1)]
381	P029		K	S01									
382	P030		K	S01									
383	P031		K	S01									
384	P033		K	S01									
385	P034		K	S01									
386	P036		K	S01									
387	P037		K	S01									
388	P038		K	S01									
389	P039		K	S01									
390	P040		K	S01									
391	P041		K	S01									
392	P042		K	S01									
393	P043		K	S01									
394	P044		K	S01									
395	P045		K	S01									
396	P046		K	S01									
397	P047		K	S01									
398	P048		K	S01									
399	P049		K	S01									
400	P050		K	S01									
401	P051		K	S01									
402	P054		K	S01									
403	P056		K	S01									
404	P057		K	S01									
405	P058		K	S01									
406	P059		K	S01									
407	P050		K	S01									
408	P062		K	S01									
409	P063		K	S01									
410	P064		K	S01									
411	P065		K	S01									
412	P066		K	S01									
413	P067		K	S01									
414	P068		K	S01									
415	P069		K	S01									

EPA/State ID Number	W	A	7	8	9	0	0	0	8	9	6	7

Line Number	A. Dangerous Waste No.	B. Estimated Annual Quantity of Waste	C. Unit of Measure	D. Process (1) Process Codes									D. Process (2) Process Description [If a code is not entered in D(1)]
416	P070		K	S01									
417	P071		K	S01									
418	P072		K	S01									
419	P073		K	S01									
420	P074		K	S01									
421	P075		K	S01									
422	P076		K	S01									
423	P077		K	S01									
424	P078		K	S01									
425	P081		K	S01									
426	P082		K	S01									
427	P084		K	S01									
428	P085		K	S01									
429	P087		K	S01									
430	P088		K	S01									
431	P089		K	S01									
432	P092		K	S01									
433	P093		K	S01									
434	P094		K	S01									
435	P095		K	S01									
436	P096		K	S01									
437	P097		K	S01									
438	P098		K	S01									
439	P099		K	S01									
440	P101		K	S01									
441	P102		K	S01									
442	P103		K	S01									
443	P104		K	S01									
444	P105		K	S01									
445	P106		K	S01									
446	P107		K	S01									
447	P108		K	S01									
448	P109		K	S01									
449	P110		K	S01									
450	P111		K	S01									

EPA/State ID Number	W	A	7	8	9	0	0	0	8	9	6	7

Line Number	A. Dangerous Waste No.	B. Estimated Annual Quantity of Waste	C. Unit of Measure	D. Process (1) Process Codes									D. Process (2) Process Description [If a code is not entered in D(1)]
451	P112		K	S01									
452	P113		K	S01									
453	P114		K	S01									
454	P115		K	S01									
455	P116		K	S01									
456	P118		K	S01									
457	P119		K	S01									
458	P120		K	S01									
459	P121		K	S01									
460	P122		K	S01									
461	P123		K	S01									
462	P127		K	S01									
463	P128		K	S01									
464	P185		K	S01									
465	P188		K	S01									
466	P189		K	S01									
467	P190		K	S01									
468	P191		K	S01									
469	P192		K	S01									
470	P194		K	S01									
471	P196		K	S01									
472	P197		K	S01									
473	P198		K	S01									
474	P199		K	S01									
475	P201		K	S01									
476	P202		K	S01									
477	P203		K	S01									
478	P204		K	S01									
479	P205		K	S01									
480	WL02		K	S01									
481	WL01		K	S01									

XV. Map

Attach to this application a topographic map of the area extending to at least one (1) mile beyond property boundaries. The map must show the outline of the facility; the location of each of its existing and proposed intake and discharge structures; each of its dangerous waste treatment, storage, recycling, or disposal units; and each well where fluids are injected underground. Include all springs, rivers, and other surface water bodies in this map area, plus drinking water wells listed in public records or otherwise known to the applicant within ¼ mile of the facility property boundary. The instructions provide additional information on meeting these requirements.

Topographic map is located in the Ecology Library

XVI. Facility Drawing

All existing facilities must include a scale drawing of the facility (refer to instructions for more detail).

XVII. Photographs

All existing facilities must include photographs (aerial or ground-level) that clearly delineate all existing structures; existing storage, treatment, recycling, and disposal areas; and sites of future storage, treatment, recycling, or disposal areas (refer to instructions for more detail).

XVIII. Certifications

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Operator Name and Official Title (type or print)	**Signature**	**Date Signed**
Shirley J. Olinger, Manager U.S. Department of Energy Office of River Protection	Shirley J. Olinger	9/24/08
Co-Operator* Name and Official Title (type or print)	**Signature**	**Date Signed**
William J. Johnson President and Project Manager Washington River Protection Solutions, LLC	William J. Johnson	9/09/08
Co-Operator – Address and Telephone Number* P.O. Box 850 Richland, WA 99352 (509) 372-9138		
Facility-Property Owner Name and Official Title (type or print)	**Signature**	**Date Signed**
Shirley J. Olinger, Manager U.S. Department of Energy Office of River Protection	Shirley J. Olinger	9/24/08

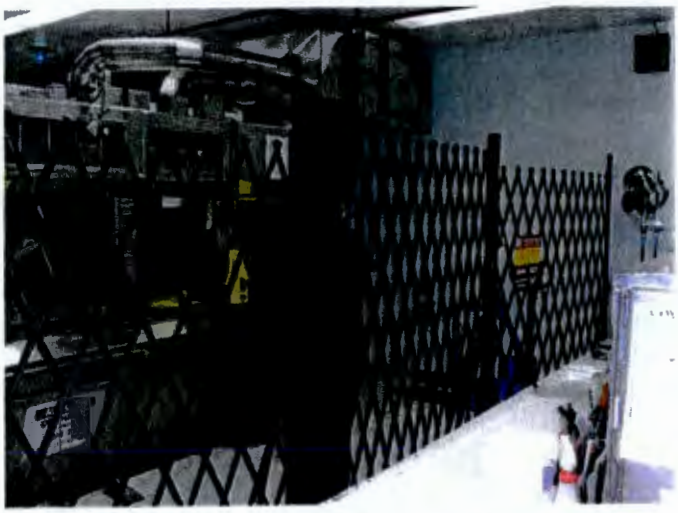
Comments

In Section VII, Facility Operator Information, there is no change to DOE as the Facility Owner/Operator; only a change in Co-Operator*. The change in Co-Operator* will be effective October 1, 2008.

222-S Dangerous and Mixed Waste TSD Components

219-S Waste Handling Facility 00100005-2CN
Photo Taken 2000

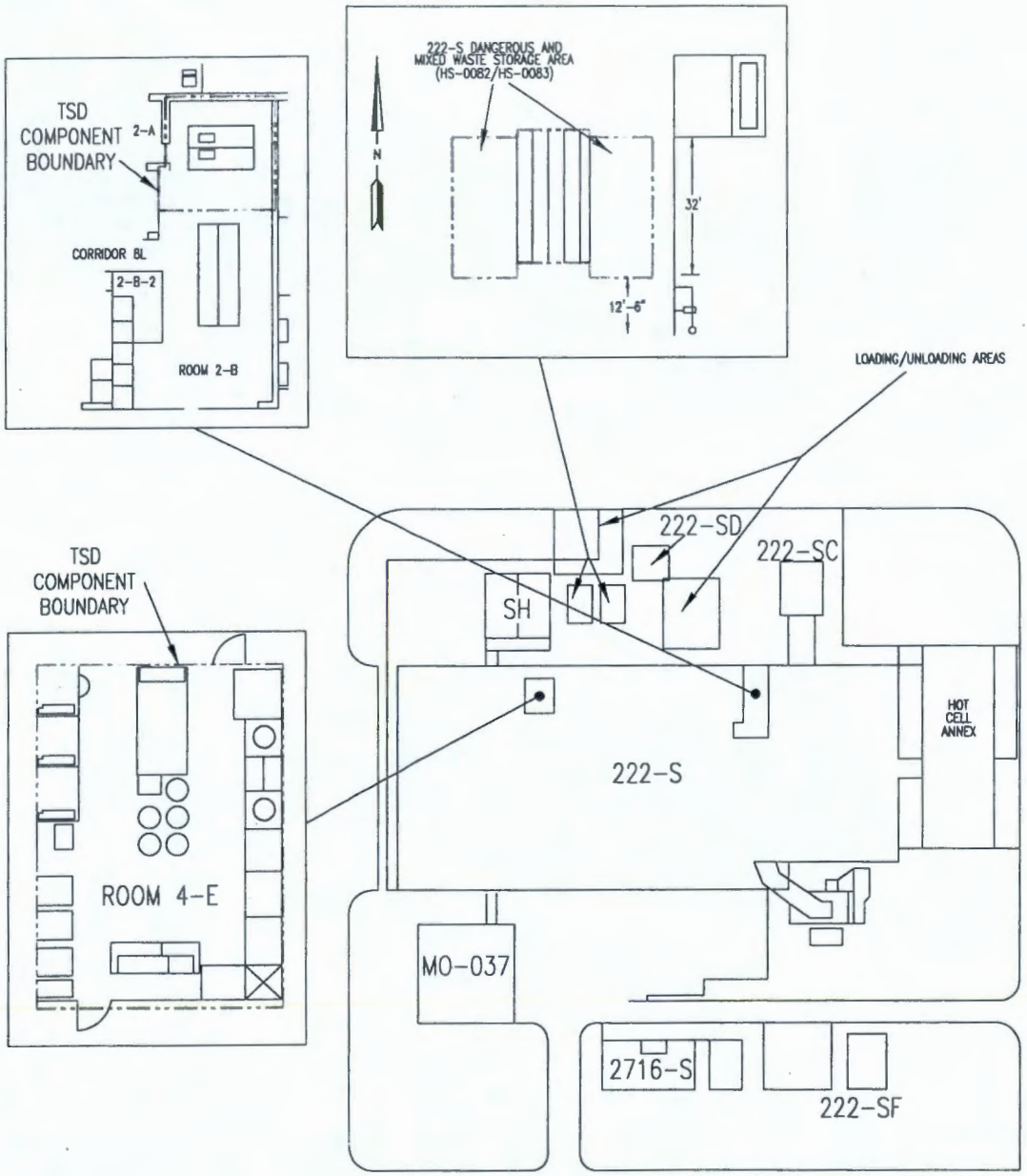
Dangerous and Mixed Waste Storage Area 98110210-13.JPG
Photo Taken 1998



Room 2-B Photo Taken 2006

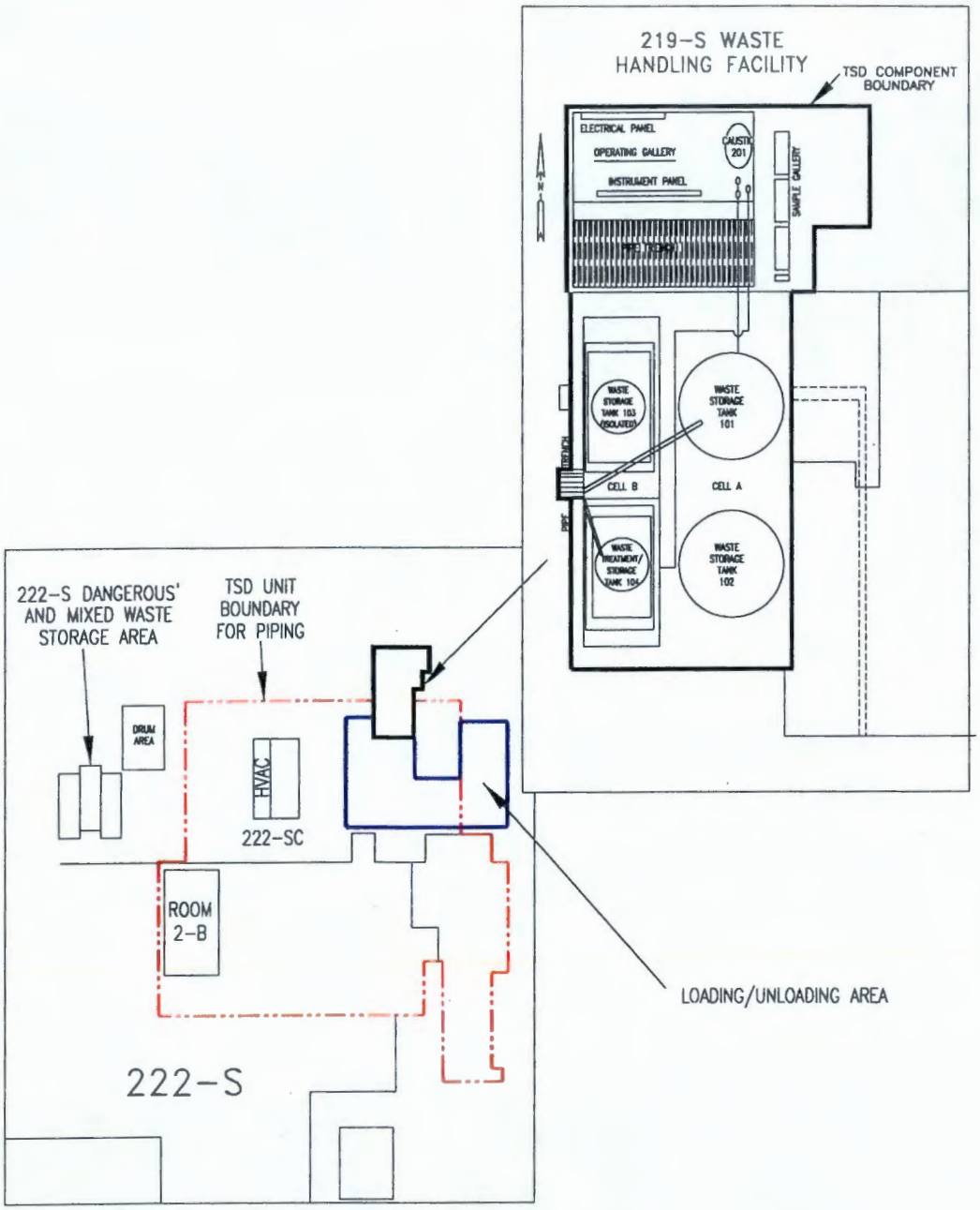
Room 4-E Photo Taken 2006

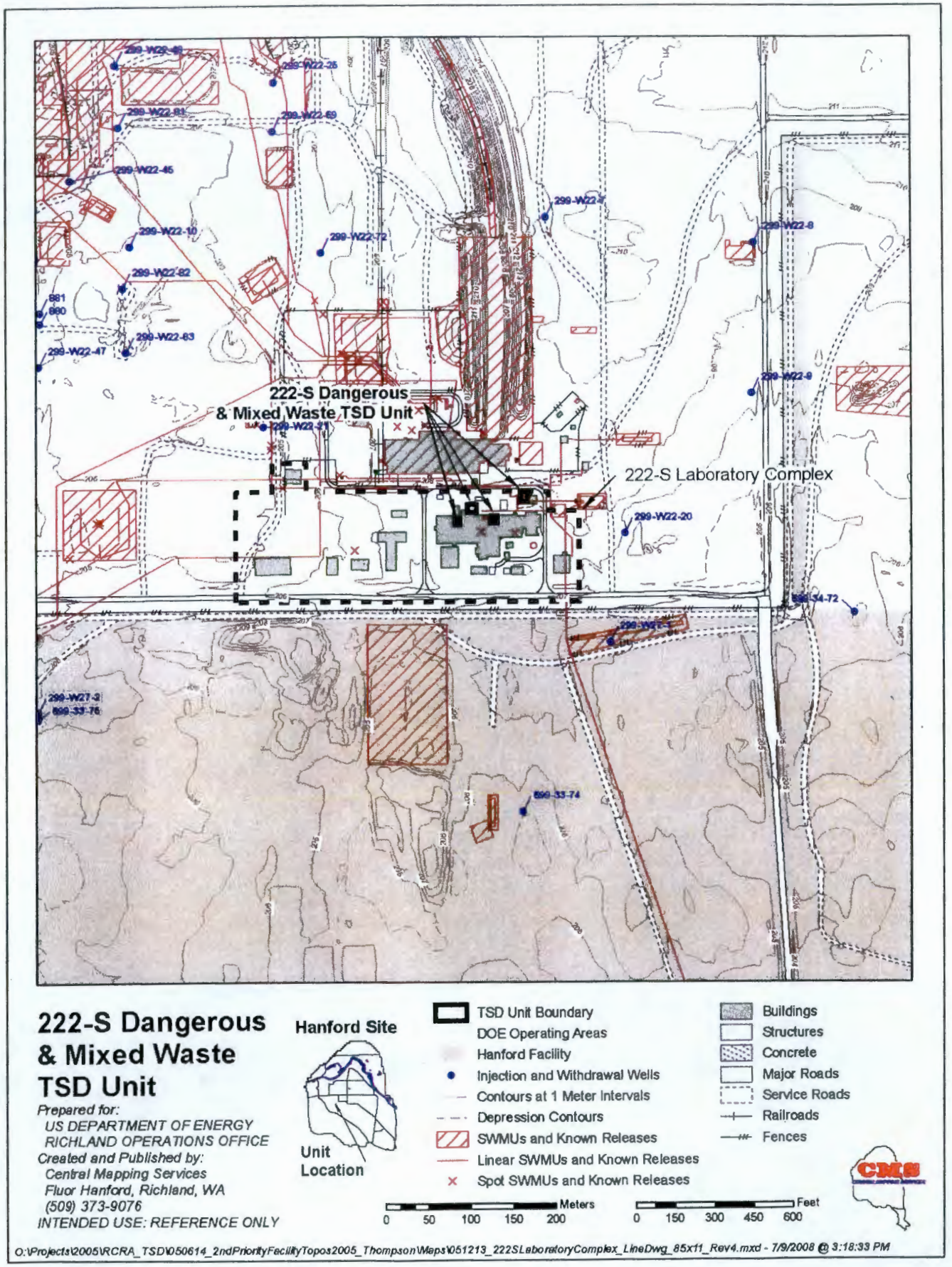
Container Storage Areas



CONTAINER STORAGE AREAS

Tank System Treatment and Storage Area




222-S Dangerous
& Mixed Waste TSD Unit
222-S Laboratory Complex
299-W22-45
299-W22-10
299-W22-72
299-W22-82
299-W22-83
299-W22-47
299-W22-8
299-W22-9
299-W22-20
299-W27-3
699-33-76
699-33-74
699-34-72
222-S Dangerous & Mixed Waste TSD Unit
Prepared for:
US DEPARTMENT OF ENERGY
RICHLAND OPERATIONS OFFICE
Created and Published by:
Central Mapping Services
Fluor Hanford, Richland, WA
(509) 373-9076
INTENDED USE: REFERENCE ONLY
Hanford Site
Unit Location
TSD Unit Boundary
DOE Operating Areas
Hanford Facility
Injection and Withdrawal Wells
Contours at 1 Meter Intervals
Depression Contours
SWMUs and Known Releases
Linear SWMUs and Known Releases
Spot SWMUs and Known Releases
Buildings
Structures
Concrete
Major Roads
Service Roads
Railroads
Fences
Meters
0 50 100 150 200
Feet
0 150 300 450 600
O:\Projects\2005\RCRA_TSD\050614_2ndPriorityFacilityTopos2005_Thompson\Maps\051213_222SLaboratoryComplex_LineDwg_85x11_Rev4.mxd - 7/9/2008 @ 3:18:33 PM

Attachment 5
08-ESQ-223

Permit for Dangerous and or Mixed Waste Research, Development, and Demonstration

WASHINGTON STATE DEPARTMENT OF ECOLOGY

Dangerous Waste Permit Application Part A Form

Date Received	Reviewed by:	Date:
Month Day Year	Approved by:	Date:

I. This form is submitted to: (place an "X" in the appropriate box)

- ☐ Request modification to a final status permit (commonly called a "Part B" permit)
- ☒ Request a change under interim status
- ☐ Apply for a final status permit. This includes the application for the initial final status permit for a site or for a permit renewal (i.e., a new permit to replace an expiring permit).
- ☐ Establish interim status because of the wastes newly regulated on: (Date)

List waste codes:

II. EPA/State ID Number

W A 7 8 9 0 0 0 8 9 6 7

III. Name of Facility

US Department of Energy – Hanford Facility

IV. Facility Location (Physical address not P.O. Box or Route Number)

A. Street

825 Jadwin

City or Town	State	ZIP Code
Richland	WA	99352

County Code (if known)	County Name
0 0 5	Benton

B. Land Type	C. Geographic Location Latitude (degrees, mins, secs)	Longitude (degrees, mins, secs)	D. Facility Existence Date Month Day Year
F	Refer to TOPO Map (Section XV.)		0 3 0 2 1 9 4 3

V. Facility Mailing Address

Street or P.O. Box

P.O. Box 450

City or Town	State	ZIP Code
Richland	WA	99352

VI. Facility contact (Person to be contacted regarding waste activities at facility)		
Name (last)	**(first)**	
Olinger	Shirley	
Job Title	**Phone Number (area code and number)**	
Manager	(509) 372-3062	
Contact Address		
Street or P.O. Box		
P.O. Box 450		
City or Town	**State**	**ZIP Code**
Richland	WA	99352

VII. Facility Operator Information	
A. Name	**Phone Number**
Department of Energy Owner/Operator Washington River Protection Solutions, LLC Co-Operator for DST System/204-AR Waste Unloading Station*	(509) 372-3062 (509) 372-9138*
Street or P.O. Box	
P.O. Box 450 P.O. Box 850*	

City or Town	**State**	**ZIP Code**
Richland	WA	99352

B. Operator Type F

C. Does the name in VII.A reflect a proposed change in operator? ☐ Yes ☒ No Co-Operator* change

If yes, provide the scheduled date for the change:

Month		Day		Year			
1	0	0	1	2	0	0	8

D. Is the name listed in VII.A. also the owner? If yes, skip to Section VIII.C. ☐ Yes ☒ No

VIII. Facility Owner Information	
A. Name	**Phone Number (area code and number)**
Shirley J Olinger, Operator/Facility-Property Owner	(509) 372-3062
Street or P.O. Box	
P.O. Box 450	

City or Town	**State**	**ZIP Code**
Richland	WA	99352

B. Owner Type F

C. Does the name in VIII.A reflect a proposed change in owner? ☐ Yes ☒ No

If yes, provide the scheduled date for the change:

Month		Day		Year			

IX. NAICS Codes (5/6 digit codes)

A. First							B. Second						
5	6	2	2	1		Waste Treatment & Disposal	9	2	4	1	1	0	Administration of Air & Water Resource & Solid Waste Management Programs
C. Third							**D. Fourth**						
5	4	1	7	1		Research & Development in the Physical, Engineering, & Life Sciences							

X. Other Environmental Permits (see instructions)

A. Permit Type	B. Permit Number	C. Description
E	AIR 06-1206	WAC 246-247, Radiation Protection - Air Emissions
E	FF 01	WAC 246-247, Hanford Site Radioactive Air Emission License
E	486	Emission Unit ID in FF-01/200 Area Diffuse/Fugitive
E	50	Emission Unit ID in FF-01/Stack # 296-P-45
E	53	Emission Unit ID in FF-01/Stack # 296-P-22
E	56	Emission Unit ID in FF-01/Stack # 296-P-23
E	59	Emission Unit ID in FF-01/Stack # 296-S-25
E	93	Emission Unit ID in FF-01/Stack # 296-A-42
E	96	Emission Unit ID in FF-01/Stack # 296-A-26
E	150	Emission Unit ID in FF-01/Stack # 296-A-27
E	156	Emission Unit ID in FF-01/Stack # 296-A-28
E	174	Emission Unit ID in FF-01/Stack # 296-A-20
E	204	Emission Unit ID in FF-01/Stack # 296-A-40
E	205	Emission Unit ID in FF-01/Stack # 296-A-41
E	216	Emission Unit ID in FF-01/Stack # 296-A-43
E	217	Emission Unit ID in FF-01/Stack # 296-A-18
E	218	Emission Unit ID in FF-01/Stack # 296-A-19
E	227	Emission Unit ID in FF-01/Stack # 296-A-29
E	228	Emission Unit ID in FF-01/Stack # 296-A-30
E	735	Emission Unit ID in FF-01/Stack # 296-A-44
E	736	Emission Unit ID in FF-01/Stack # 296-A-45
E	855	Emission Unit ID in FF-01/Stack # 296-A-46
E	856	Emission Unit ID in FF-01/Stack # 296-A-47
E	DE00NWP-01	WAC 173-400 and 173-460, NOC Nonradioactive Air
E	NOC 94-07-01	WAC 173-400 and 173-460, NOC Nonradioactive Air
E	TSCA2008-31	40 CFR 761, TSCA approval

XI. Nature of Business (provide a brief description that includes both dangerous waste and non-dangerous waste areas and activities)

The DST Tank System began operations between April 1971 and October 1986 (Table 1). The DST Tank System is used for receipt and the storage (S02) of liquid mixed waste generated on the Hanford Facility. Two operating units, one in the 200 East (242-A Evaporator) and one in the 200 West Area (222-S Laboratory) directly transfer liquid mixed waste through buried double-encased transfer lines to designated underground DSTs. Additionally the DST System receives liquid mixed waste via temporary transfer lines from, the Single-Shell Tank (SST) System, tank truck transfers (bulk chemical for corrosion control or mixed waste meeting the DST waste acceptance criteria). Smaller temporary storage tanks used to support decontamination and miscellaneous SST and DST tank farm activities that are known to meet DST waste acceptance criteria based on process knowledge may also be transferred to the DST System. Note that Hose-in-Hose temporary transfer lines are used for SST to DST transfers only. Transfers from tanker trucks use a single wall hose with plastic sleeving as the secondary containment and is under continuous surveillance.

The tanks in the DST System are considered treatment units (T01) because chemicals can be added for corrosion control; the waste can be mixed using equipment such as airlift circulators or pumps. The DSTs are listed in Table 1, which includes tank numbers, locations, design capacities, and operational dates. The specific treatment, storage, and disposal (TSD) unit boundaries are defined in the DST System Dangerous Waste Part B permit application documentation.

The maximum process design capacity for both tank storage (S01) and tank treatment (T01) at the DST System is 126,189,294 L (33,335,685 gal). The total capacity is consistent with individual tank capacities shown on Table 1 and is based on the maximum analyzed limit of for each tank as shown in the Operating Specification for Double-Shell Storage Tanks (OSD-T-151-00007, Rev. 1).

The 204-AR Waste Unloading Station (WUS) began waste management operations in February 1982, but is currently not used for its' original intent. The 204-AR Waste Unloading Station was used for the treatment of liquid mixed waste that exhibited a pH of less than 12. The waste was chemically adjusted in-line at the 204-AR Waste Unloading Station by adding caustic (sodium hydroxide and sodium nitrate) to increase the pH of the waste to meet DST System corrosion specifications for storage in the DST System. The 204-AR WUS received liquid mixed waste transported in railroad tank cars or tank trucks of varying capacity. The mixed waste was generated from decontamination and regeneration operations in the 100 and 200 Areas, from recovery and laboratory operations in the 200 and 300 Areas, and from decontamination operations in the 400 Area. The maximum process design capacity, with a specific gravity for the waste of 1.0, for tank treatment (T04) at the 204-AR WUS was 50,000 gal (189,270 L) of which 10,000 gal (37,854 L) was associated with the flushing of the system. Due to the non-compliant transfer system between AW Farm and the 204-AR WUS, no waste can be received at the 204 AR WUS for direct transfer into the DST Tank System until the transfer system has been made RCRA compliant. The current function of the 204 AR facility is to provide storage for approximately 1500 gallons of dilute aqueous mixed waste collected in Tank TK-1 from previous waste unloading activities. Tank TK-1 also continues to receive liquid from building drain seal maintenance, safety shower drainage, and periodic discharge of ventilation condensate water. The mixed waste consists of listed waste, characteristic waste (D001, D002, and D003), toxic constituents (D004 through D011, D018, D019, D022, D028 through D030, D033 through D036, D038 through D041, and D043), nonspecific source waste (F001 through F005), and state-only waste (WT01, WT02, WP01, and WP02). Multi-source leachate (F039) is included as a waste derived from non-specific sources F001-F005. F039 was added to the list of DST waste codes in 1994 in anticipation of receiving leachate from the start-up of low-level burial grounds (Trench 31).

The debris designation (Section XIV) refers to in-tank equipment that is abandoned in place. This equipment will be addressed by the DST System final closure plan.

EXAMPLE FOR COMPLETING ITEMS XII and XIII (shown in lines numbered X-1, X-2, and X-3 below): A facility has two storage tanks that hold 1200 gallons and 400 gallons respectively. There is also treatment in tanks at 20 gallons/hr. Finally, a one-quarter acre area that is two meters deep will undergo *in situ vitrification*.

Section XII. Process Codes and Design Capacities								Section XIII. Other Process Codes								
Line Number		A. Process Codes (enter code)			B. Process Design Capacity		C. Process Total Number of Units	Line Number		A. Process Codes (enter code)			B. Process Design Capacity		C. Process Total Number of Units	D. Process Description
					1. Amount	2. Unit of Measure							1. Amount	2. Unit of Measure		
X	1	S	0	2	1,600	G	002	X	1	T	0	4	700	C	001	In situ vitrification
X	2	T	0	3	20	E	001									
X	3	T	0	4	700	C	001									
	1	S	0	2	126,189,294	L	29		1							
	2	T	0	1	126,189,294	V	29		2							
	3								3							
	4								4							
	5								5							
	6								6							
	7								7							
	8								8							
	9								9							
1	0							1	0							
1	1							1	1							
1	2							1	2							
1	3							1	3							
1	4							1	4							
1	5							1	5							
1	6							1	6							
1	7							1	7							
1	8							1	8							
1	9							1	9							
2	0							2	0							
2	1							2	1							
2	2							2	2							
2	3							2	3							
2	4							2	4							
2	5							2	5							

XIV. Description of Dangerous Wastes

Example for completing this section: A facility will receive three non-listed wastes, then store and treat them on-site. Two wastes are corrosive only, with the facility receiving and storing the wastes in containers. There will be about 200 pounds per year of each of these two wastes, which will be neutralized in a tank. The other waste is corrosive and ignitable and will be neutralized then blended into hazardous waste fuel. There will be about 100 pounds per year of that waste, which will be received in bulk and put into tanks.

Line Number			A. Dangerous Waste No.				B. Estimated Annual Quantity of Waste	C. Unit of Measure	D. Processes									
									(1) Process Codes									(2) Process Description [If a code is not entered in D(1)]
X	1		D	0	0	2	400	P	S	0	1	T	0	1				
X	2		D	0	0	1	100	P	S	0	2	T	0	1				
X	3		D	0	0	2												Included with above
		1	D	0	0	1	426,850,200	K	S	0	2	T	0	1				Includes Debris
		2	D	0	0	2		K	S	0	2	T	0	1				Includes Debris
		3	D	0	0	3		K	S	0	2	T	0	1				Includes Debris
		4	D	0	0	4		K	S	0	2	T	0	1				Includes Debris
		5	D	0	0	5		K	S	0	2	T	0	1				Includes Debris
		6	D	0	0	6		K	S	0	2	T	0	1				Includes Debris
		7	D	0	0	7		K	S	0	2	T	0	1				Includes Debris
		8	D	0	0	8		K	S	0	2	T	0	1				Includes Debris
		9	D	0	0	9		K	S	0	2	T	0	1				Includes Debris
	1	0	D	0	1	0		K	S	0	2	T	0	1				Includes Debris
	1	1	D	0	1	1		K	S	0	2	T	0	1				Includes Debris
	1	2	D	0	1	8		K	S	0	2	T	0	1				Includes Debris
	1	3	D	0	1	9		K	S	0	2	T	0	1				Includes Debris
	1	4	D	0	2	2		K	S	0	2	T	0	1				Includes Debris
	1	5	D	0	2	8		K	S	0	2	T	0	1				Includes Debris
	1	6	D	0	2	9		K	S	0	2	T	0	1				Includes Debris
	1	7	D	0	3	0		K	S	0	2	T	0	1				Includes Debris
	1	8	D	0	3	3		K	S	0	2	T	0	1				Includes Debris
	1	9	D	0	3	4		K	S	0	2	T	0	1				Includes Debris
	2	0	D	0	3	5		K	S	0	2	T	0	1				Includes Debris
	2	1	D	0	3	6		K	S	0	2	T	0	1				Includes Debris
	2	2	D	0	3	8		K	S	0	2	T	0	1				Includes Debris
	2	3	D	0	3	9		K	S	0	2	T	0	1				Includes Debris
	2	4	D	0	4	0		K	S	0	2	T	0	1				Includes Debris
	2	5	D	0	4	1		K	S	0	2	T	0	1				Includes Debris

EPA/State ID Number	W	A	7	8	9	0	0	0	8	9	6	7

Continuation of Section XIV. Description of Dangerous Waste

Line Number	A. Dangerous Waste No. (enter code)	B. Estimated Annual Quantity of Waste	C. Unit of Measure (enter code)	D. Process (1) Process Codes (enter)	D. Process (2) Process Description [If a code is not entered in D (1)]
26	D043		K	S02T01	Includes Debris
27	WT01		K	S02T01	Includes Debris
28	WT02		K	S02T01	Includes Debris
29	WP01		K	S02T01	Includes Debris
30	WP02		K	S02T01	Includes Debris
31	F001		K	S02T01	Includes Debris
32	F002		K	S02T01	Includes Debris
33	F003		K	S02T01	Includes Debris
34	F004		K	S02T01	Includes Debris
35	F005		K	S02T01	Includes Debris
36	F039		K	S02T01	Includes Debris

XV. Map

Attach to this application a topographic map of the area extending to at least one (1) mile beyond property boundaries. The map must show the outline of the facility; the location of each of its existing and proposed intake and discharge structures; each of its dangerous waste treatment, storage, recycling, or disposal units; and each well where fluids are injected underground. Include all springs, rivers, and other surface water bodies in this map area, plus drinking water wells listed in public records or otherwise known to the applicant within ¼ mile of the facility property boundary. The instructions provide additional information on meeting these requirements.

Topographic map is located in the Ecology Library

XVI. Facility Drawing

All existing facilities must include a scale drawing of the facility (refer to Instructions for more detail).

XVII. Photographs

All existing facilities must include photographs (aerial or ground-level) that clearly delineate all existing structures; existing storage, treatment, recycling, and disposal areas; and sites of future storage, treatment, recycling, or disposal areas (refer to Instructions for more detail).

XVIII. Certifications

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Operator Name and Official Title (type or print) Shirley J. Olinger, Manager U.S. Department of Energy Office of River Protection	**Signature**	**Date Signed** 9/25/08
Co-Operator* Name and Official Title (type or print) William J. Johnson President and Project Manager Washington River Protection Solutions, LLC	**Signature**	**Date Signed** 9/10/08
Co-Operator – Address and Telephone Number* P.O. Box 850 Richland, WA 99352 (509) 372-9138		
Facility-Property Owner Name and Official Title (type or print) Shirley J. Olinger, Manager U.S. Department of Energy Office of River Protection	**Signature**	**Date Signed** 9/25/08

Comments

In Section VII, Facility Operator Information, there is no change to DOE as the Facility Owner/Operator; only a change in Co-Operator*. The change in Co-Operator* will be effective October 1, 2008.

Historically liquid mixed waste streams that have been transferred to the DST System through permanent buried pipelines and via the 204-AR WUS included:

- Dilute miscellaneous waste generated at the Hanford Facility (100, 200, 300, 400 Areas, and the 240 Complex)
- Supernate and transuranic sludges that consist of neutralized cladding removal waste generated during Plutonium-Uranium Extraction Plant headend operations, and waste generated during Plutonium Finishing Plant processing
- Concentrated DST waste (slurry) from the 242-A Evaporator
- Concentrated complexed waste generated from B Plant processing
- Neutralized current acid waste from the first extraction column at the Plutonium-Uranium Extraction Plant
- Liquid waste from the SST System
- Waste from the Grout Treatment Facility
- T Plant Complex decontamination activities
- Waste from the 204-AR Waste Unloading Station.

Additional liquid mixed waste streams meeting the waste acceptance criteria of the DST system have been transferred to the DST system via tanker trucks and temporary hose transfer lines to the DST system. Any of these waste types could be stored and/or treated in any of the DSTs.

The list of dangerous waste numbers includes some constituents that have not been detected by laboratory analysis however, knowledge of the processes that generated the waste stored in the DST System indicates the strong possibility that these constituents are in the waste.

Detailed topographic maps including latitude and longitude for the DST System are located in the Ecology Library, as required by Ecology guidance document ECY-030-0-31. These maps are also included in Hanford Facility Operating Record, DST System file (H-13-000707, Rev 2, Sheets 1 through 4) as provided in Hanford Facility Dangerous Waste Permit Application, Double-Shell Tank System, DOE/RL-90-39, Rev. 1B, Appendix 2A. Note: The unloading areas for truck transfers have not been identified on the H-13-000707 drawings per WAC 173-303-806(4)(a)(xviii)(J). All DSTs are considered unloading areas because of the potential for placement of waste directly through tank risers.

Table 1. Double-Shell Tanks

Tank Number	Location	Design Capacity (L)	Operation Date
24 Nonaging[+] Waste Double-Shell Tanks (Nonaging waste is a waste that is not neutralized current acid waste)			
241-AN-101	200 East Area	4,542,480	9/81
241-AN-102	200 East Area	4,542,480	9/81
241-AN-103	200 East Area	4,542,480	9/81
241-AN-104	200 East Area	4,542,480	9/81
241-AN-105	200 East Area	4,542,480	9/81
241-AN-106	200 East Area	4,542,480	9/81
241-AN-107	200 East Area	4,542,480	9/81
241-AP-101	200 East Area	4,795,460	10/86
241-AP-102	200 East Area	4,795,460	10/86
241-AP-103	200 East Area	4,795,460	10/86
241-AP-104	200 East Area	4,795,460	10/86
241-AP-105	200 East Area	4,795,460	10/86
241-AP-106	200 East Area	4,795,460	10/86
241-AP-107	200 East Area	4,795,460	10/86
241-AP-108	200 East Area	4,795,460	10/86
241-AW-101	200 East Area	4,542,480	8/80
241-AW-102	200 East Area	4,542,480	8/80
241-AW-103	200 East Area	4,542,480	8/80
241-AW-104	200 East Area	4,542,480	8/80
241-AW-105	200 East Area	4,542,480	8/80
241-AW-106	200 East Area	4,542,480	8/80
241-SY-101	200 West Area	4,542,480	4/77
241-SY-102	200 West Area	4,542,480	4/77
241-SY-103	200 West Area	4,542,480	4/77
4 Aging[+] Waste Double-Shell Tanks (Aging waste is neutralized current acid waste generated from the Plutonium-Uranium Extraction Plant)			
241-AY-101	200 East Area	3,785,400	4/71
241-AY-102	200 East Area	3,785,400	4/76*
241-AZ-101	200 East Area	3,785,400	11/76
241-AZ-102	200 East Area	3,785,400	11/76

*Estimated operational date.

[+] Aging waste tanks differ from nonaging waste tanks by inclusion of internal ancillary equipment (i.e., steam coils and airlift circulators).

204 AR Waste Unloading Station			
TK-1 Catch Tank	200 East Area	4334	2/82

Nonaging Waste Double-Shell Tanks

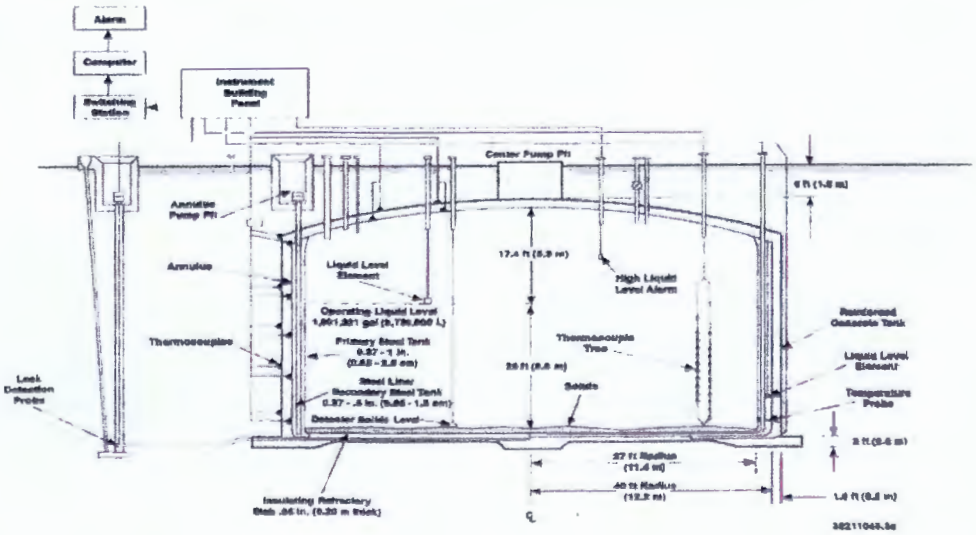
241-AN Double-Shell Tank 96080579-24CN
Photo Taken 1996

241-AP Double-Shell Tank 8704135-12CN
Photo Taken 1987

241-AW Double-Shell Tank 8704135-11CN
Photo Taken 1987

241-SY Double-Shell Tank 96080579-1CN
Photo Taken 1996

Typical Non-Aging Waste Tank



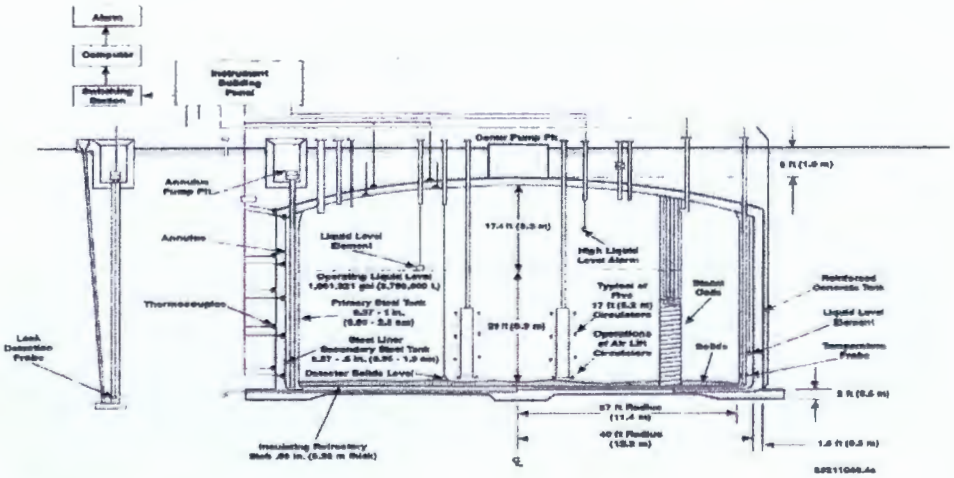
Aging Waste Double-Shell Tanks

241-AY Double-Shell Tank

8704135-10CN
Photo Taken 1987

241-AZ Double-Shell Tank

96020361-17CN
Photo Taken 1996



Typical Aging Waste Tank

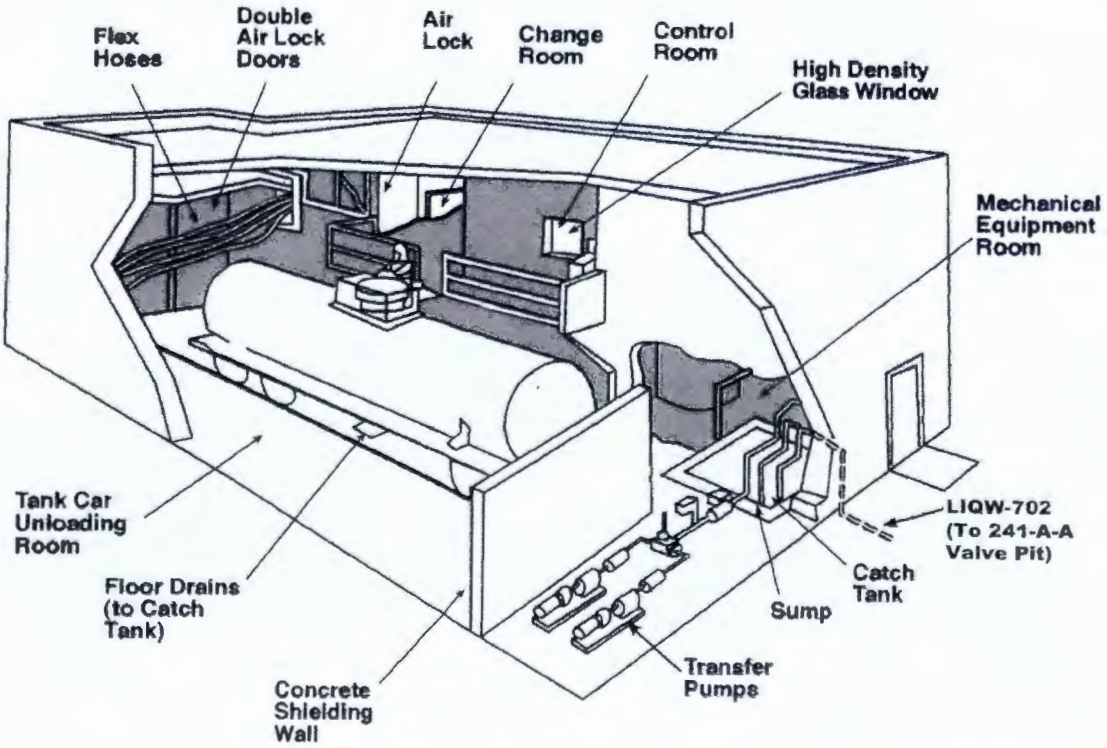
204-AR Waste Unloading Station

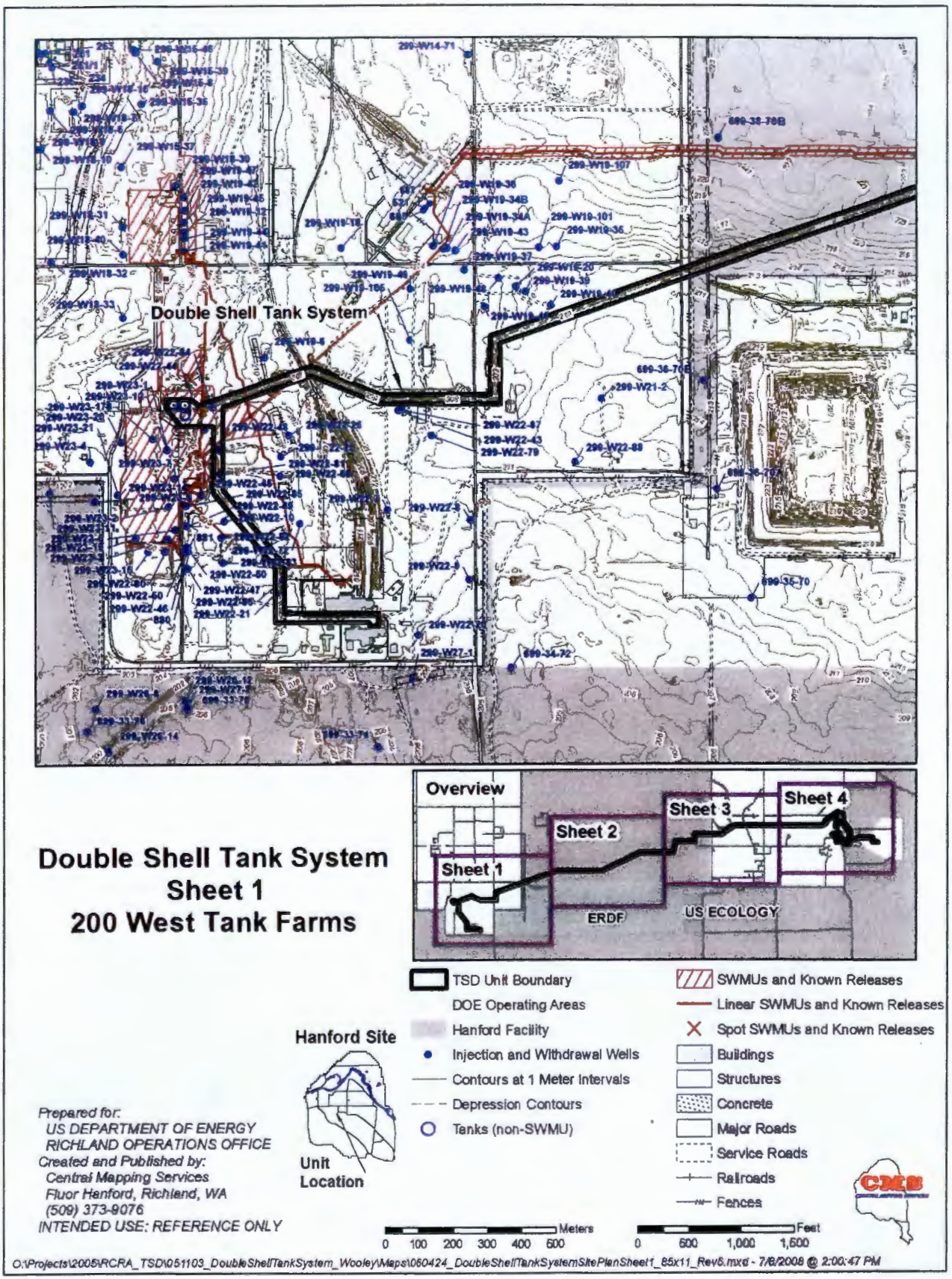
8706421-18CN

Photo Taken 1987

Internal View

8706421-16CN
Photo Taken 1987




Double Shell Tank System
Overview
Sheet 1
Sheet 2
Sheet 3
Sheet 4
ERDF
US ECOLOGY
Double Shell Tank System
Sheet 1
200 West Tank Farms
Hanford Site
Unit Location
TSD Unit Boundary
DOE Operating Areas
Hanford Facility
Injection and Withdrawal Wells
Contours at 1 Meter Intervals
Depression Contours
Tanks (non-SWMU)
SWMUs and Known Releases
Linear SWMUs and Known Releases
Spot SWMUs and Known Releases
Buildings
Structures
Concrete
Major Roads
Service Roads
Railroads
Fences
Prepared for:
US DEPARTMENT OF ENERGY
RICHLAND OPERATIONS OFFICE
Created and Published by:
Central Mapping Services
Fluor Hanford, Richland, WA
(509) 373-9076
INTENDED USE: REFERENCE ONLY
Meters
0 100 200 300 400 500
Feet
0 500 1,000 1,500
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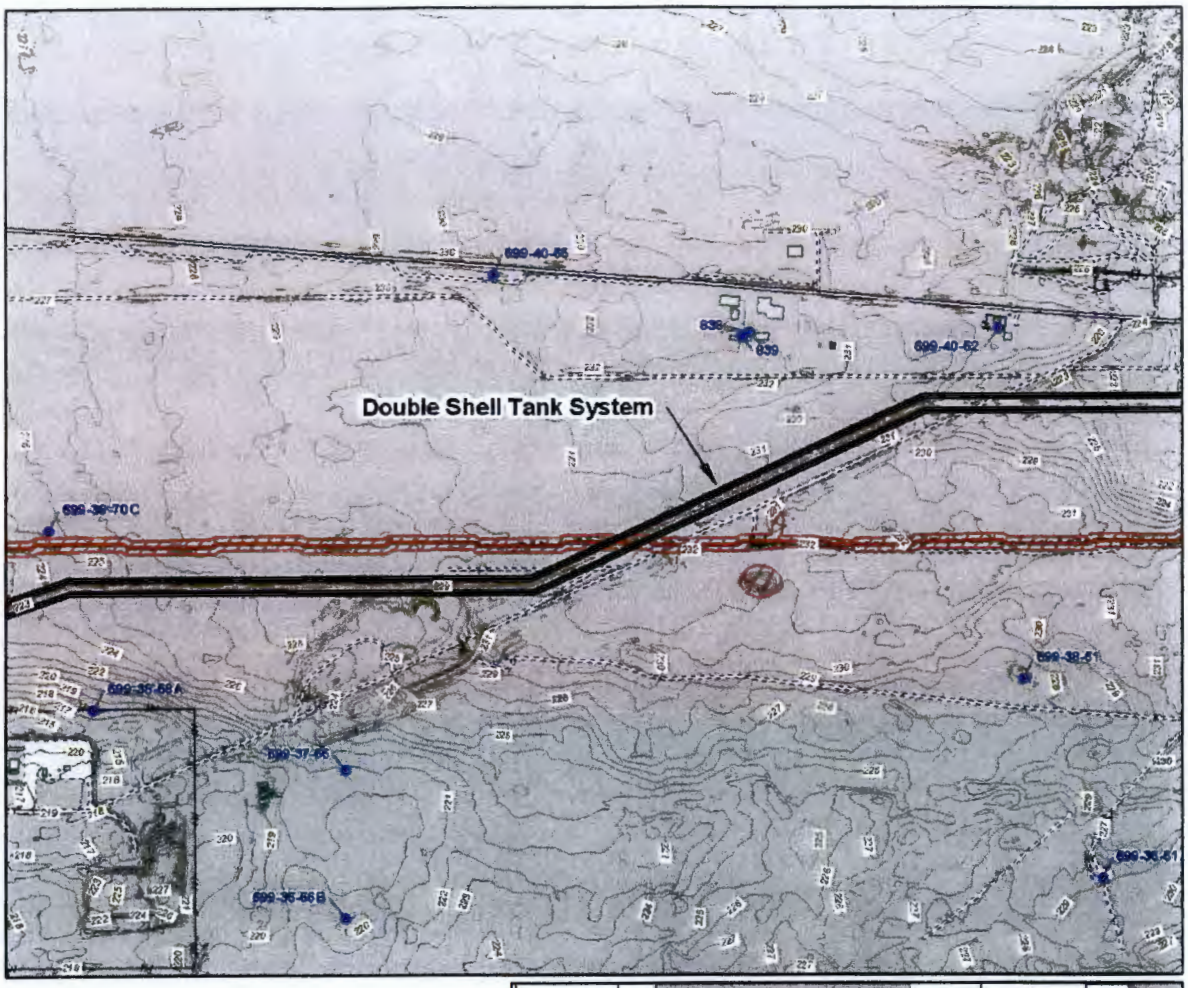
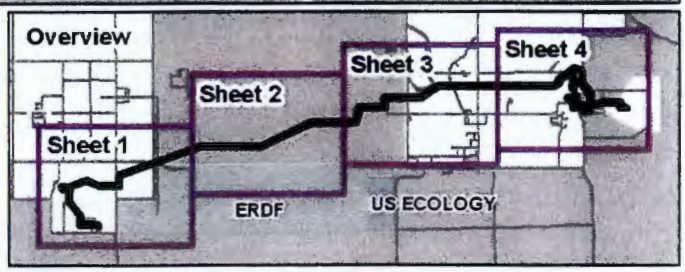


Double Shell Tank System
Sheet 2
200 West
Cross-Site Transfer Line
(Section)



TSD Unit Boundary
DOE Operating Areas
Hanford Facility
Injection and Withdrawal Wells
Contours at 1 Meter Intervals
Depression Contours
SWMUs and Known Releases
Linear SWMUs and Known Releases
Spot SWMUs and Known Releases
Buildings
Structures
Concrete
Major Roads
Service Roads
Railroads
Fences

Hanford Site

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Meters: 0 100 200 300 400 500
Feet: 0 500 1,000 1,500

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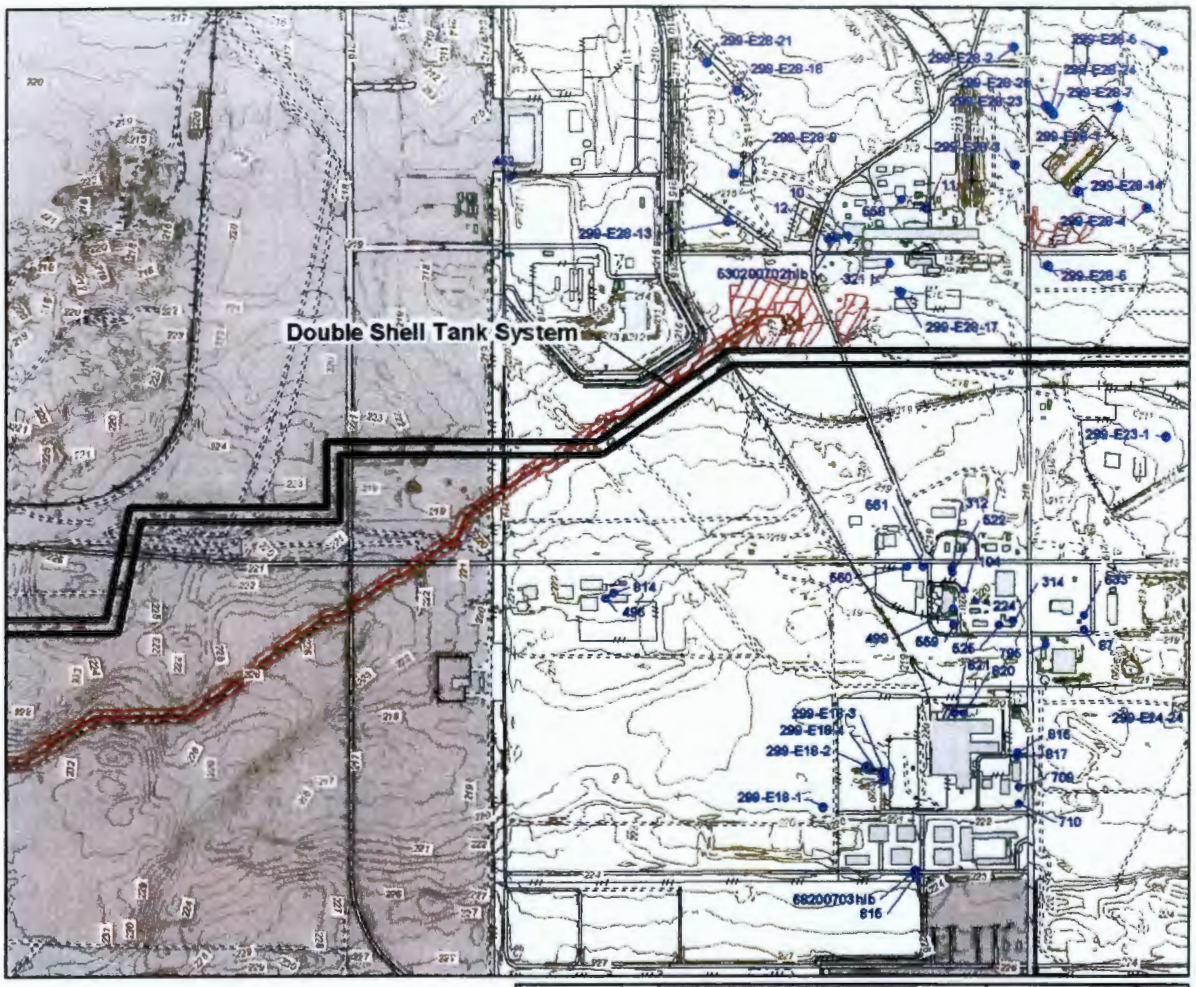
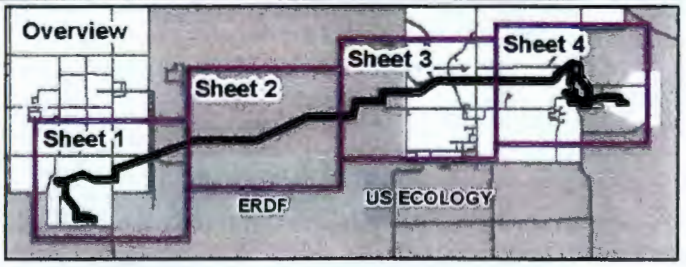


Double Shell Tank System
Sheet 3
200 East
Cross-Site Transfer Line
(Section)



TSD Unit Boundary
DOE Operating Areas
Hanford Facility
Injection and Withdrawal Wells
Contours at 1 Meter Intervals
Depression Contours

SWMUs and Known Releases
Linear SWMUs and Known Releases
Spot SWMUs and Known Releases
Buildings
Structures
Concrete
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Service Roads
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Hanford Site

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Meters: 0 100 200 300 400 500
Feet: 0 500 1,000 1,500

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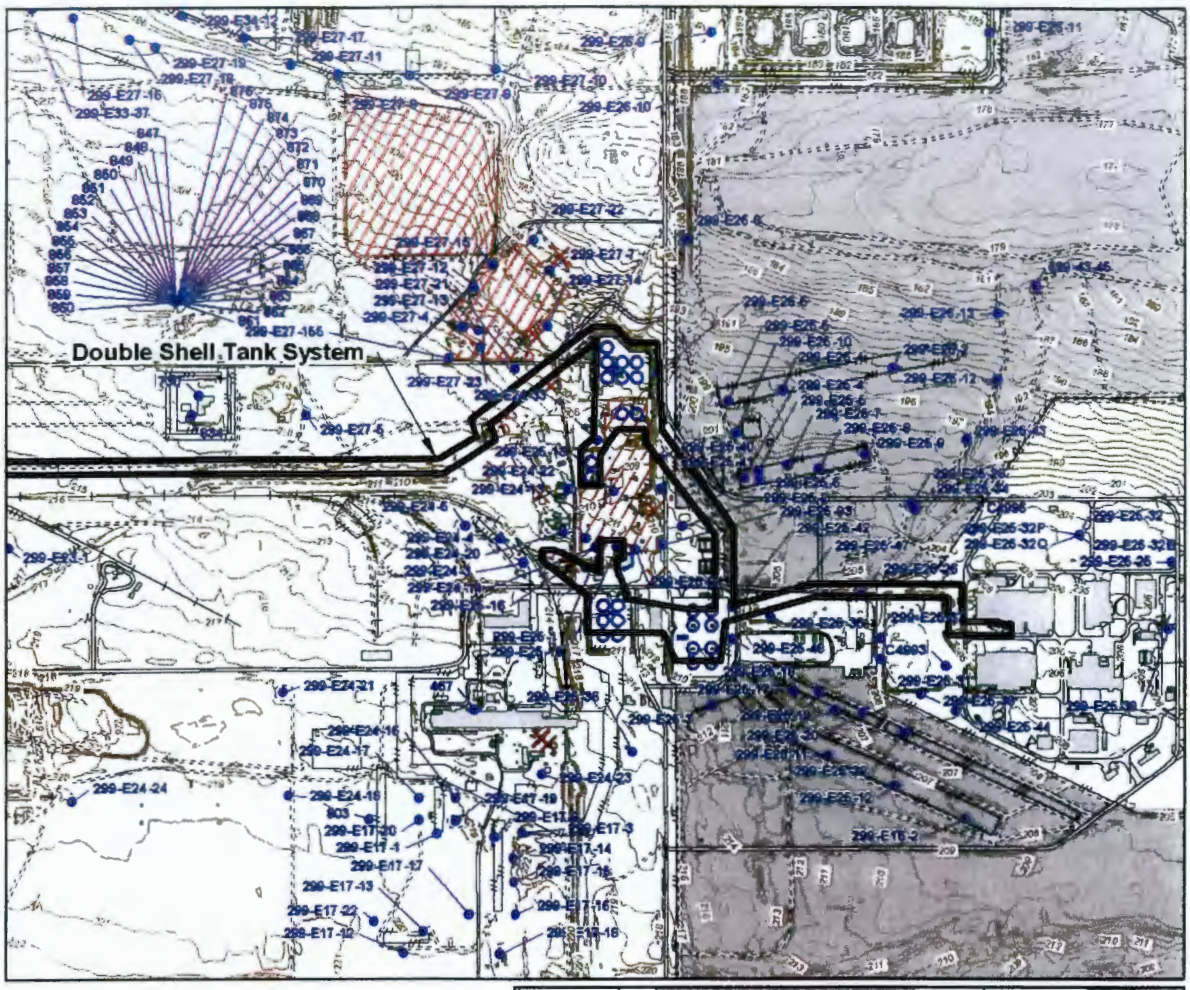

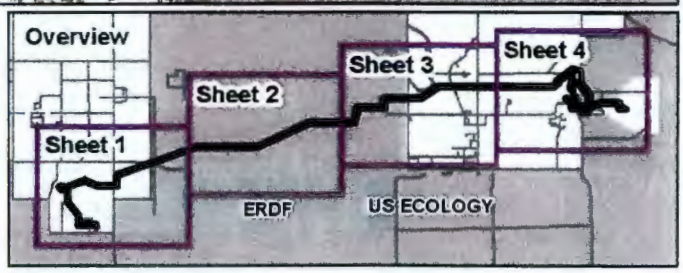

Double Shell Tank System
Sheet 4
200 East Tank Farms

Hanford Site

TSD Unit Boundary
DOE Operating Areas
Hanford Facility
Injection and Withdrawal Wells
Contours at 1 Meter Intervals
Depression Contours
Tanks (non-SWMU)

SWMUs and Known Releases
Linear SWMUs and Known Releases
Spot SWMUs and Known Releases
Buildings
Structures
Concrete
Major Roads
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Meters: 0 100 200 300 400 500
Feet: 0 500 1,000 1,500

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Attachment 6
08-ESQ-223

Permit for Dangerous and or Mixed Waste Research, Development, and Demonstration

PERMIT FOR
DANGEROUS AND OR MIXED WASTE RESEARCH, DEVELOPMENT, AND DEMONSTRATION

Washington State Department of Ecology
Nuclear Waste Program
3100 Port of Benton Boulevard
Richland, Washington 99354-1670
Telephone: (509) 372-7950

This Permit is issued in accordance with the applicable provisions of the Hazardous Waste Management Act, Chapter 70.105 Revised Code of Washington (RCW), and the regulations promulgated hereunder in Chapter 173-303 Washington Administrative Code (WAC).

ISSUED TO: United States Department of Energy
Office of River Protection
Owner/Operator
P.O. Box 450
Richland, Washington 99354

Co-Permittee: ~~CH2M HILL Hanford Group, Inc.~~Washington River Protection Solutions, LLC
Co-Operator
P.O. Box ~~1500~~850
Richland, Washington ~~99354~~99352

This Permit is effective as of January 12, 2005, and shall remain in effect until December 13, 2013, unless modified or revoked and reissued under WAC 173-303-830(3), or terminated under WAC 173-303-809(3) or WAC 173-303-830(5). The new Permit expiration date of December 13, 2013 supersedes the expiration date as may be specified in the Permit. This Permit shall not exceed four hundred (400) operating days of the Dangerous and or Waste Research, Development, and Demonstration Activity authorized by this permit.

ISSUED BY: WASHINGTON STATE DEPARTMENT OF ECOLOGY

_____

Jane A. Hedges, Program Manager
Nuclear Waste Program
Washington State Department of Ecology

Date Signed _____