435.36
00/00/2005
Rev. 06

24921

NEW SITE IDENTIFICATION (NSI)

Part A – NEW SITE IDENTIFICATION INFORMATION (To be completed by the Task Lead for New Site)	
1. **Site Title:** CPP-PEW Evaporator Overhead Pipeline Spills (Additional Information)	**Site Code:** CPP-058 **NSI Evaluation Initiation Date:** 5/3/2005
2. **Task Lead For New Site:** Wendell Jolley	Phone: 526-5990
3. **NSI Coordinator:** Nielsen Burch	Phone: 526-5676
4. **Initiator or Initial Observer:** Richard Willson	Phone: 526-9641

5. **Description of Suspected New Site and Location:**

This new site identification is to provide additional information concerning FFA/CO release site CPP-058 CPP-PEW Evaporator Overhead Pipeline Spills. Unusual Occurrence Report (UOR) number 80-15 (Appendix A) dated 8/19/1980 documents the discovery of a release to the environment of waste water from transfer line 3" PLA-2069C between the southwest corner of CPP-649 and the Beech Street utility tunnel. At the time of this discovery the PLA-2069C line transferred overhead condensate (also called process condensate or process waste) which contained small amounts of listed wastes from the Process Equipment Waste (PEW) Evaporator to the service waste system. This line also carried non hazardous steam condensate to the service waste system for disposal to the injection well.

This leak was discovered when liquid was found pooling on the surface of the ground. It was verified that the leak was from the 3" PLA-2069C when the transfer was stopped and the liquid absorbed back into the ground. It is not known how long the pipe had been leaking before it pooled on the surface and was discovered. The area where the leak is located is bounded on the surface on all sides by utility tunnels or building foundations except in one small area to the northwest of the spill. The area is not bounded below the building foundations until the first basalt.

During PEWE operations non hazardous steam condensate was collected in a 100 gallon transfer tank, and process waste was collected in a 4000 gallon tank. The steam transfer tank would fill in about five minutes when the PEWE was near capacity, then it would take about two to three minutes to empty to the service waste system. The process waste tank would fill in about eight hours when operating near capacity and would take from two to four hours to empty. Each ten pounds of steam would produce about one gallon of process waste. This means that the process waste is about 45% of the total volume of waste discharged through the PLA-2069C line. The PEW Evaporator produced 160,500 gallons of overhead condensate during the month of July (SGS-77-80 Production Department Monthly Report for July) and 185,450 gallons of overhead condensate for the month of August (SGS-87-80 Production Department Monthly Report for August).

UOR 80-15 provided additional PEWE process condensate spill information for this area. In the new site identification for CPP-58 (New Site Identification for CPP-58 "Nitric Acid Contamination in Proximity to Group 1 Interim Action Trench Near CPP-604", document number 10958, January 8, 2002) it stated that the spill location of the contamination was not known. UOR 80-15 also stated "This line had broken several times in the past, at either end, before the pup tunnel was installed". Frank Ward (Memo of conversation between Nielsen Burch and Frank Ward 5/4/2005 Appendix B) substantiated this statement saying that there were two breaks outside CPP-604/605 where the line exited the building and one break at the elbow where the line turned north. These breaks were due to excessive expansion and contraction in the line. The breaks near CPP-604/605 were within the CPP-058 area as it now exists. The break at the elbow was west across the street outside of the current CPP-058 area. Therefore the boundary of CPP-058 has been modified to include the elbow where the line turns north. See Figue 1 for a drawing showing spill locations and release site CPP-058.

Process condensate samples collected from the holding tank prior to pump out into the service waste system yielded the following results. A sampling event from 10/26/1988 yielded these values: Sulfate <0.11201 mg/l, Silver 0.0010 mg/l, Phosphate 0.38741 mg/l, Organic-C 39.48 mg/l, Nitrate (as N) 28.3 mg/l, Mercury 0.028 mg/l, Fluoride 0.6317 mg/l, Cyanide <10 PPB, Chromium 0.0022 mg/l, Chloride 1.3236 mg/l, pH 2.9, Total U 1.1E-9 uCi/ml, Total Pu 5.9E-8 uCi/ml, I-129 4.8E-7 uCi/ml, C-14 uCi/ml, H-3 1.6E-3 uCi/ml, Total Sr 1.49E-6 uCi/ml, Gross Alpha <3E-8 uCi/ml, and Gross Beta 7.4E-6 uCi/ml. A sampling event 11/1/1988 yielded these values: 4-Methyl-2-Pentanone (MIBK) (Hexone) 16 mg/l, Trichloroethene 0.35 mg/l, di-n-butyl phthalate 0.01 mg/l, diethyl phthalate 0.0027 mg/l, and bis(2-ethylhexyl)phthalate 0.0057 mg/l (PEW Overhead (Process Condensate) Sample Results 11/26/1988 and 12/1/1988 document number 30509, Appendix C). Additional sample information for process condensate from 1990 through 1992 can be found in EDF-2964 (Voluntary Consent Order Characterization EDF-2964 "Voluntary Consent Order Tank System INTEC-095 – INTEC Service Waste System Characterization", June 10, 2004).

6. **Is the site SWMU as defined in OSWER DIRECTIVE 9502.00-6?** ☒ **Yes** ☐ **No**

NEW SITE IDENTIFICATION (NSI)

7. **Recommendation**

☐ Recommend not including as a new FFA/CO site. This site DOES NOT warrant further investigation, does not meet the criteria for acceptance, and should not be included under FFA/CO Action Plan.

☒ Recommend including as new FFA/CO site. This site DOES meet the criteria for acceptance, may warrant further investigation, and should be included under FFA/CO Action Plan.

Recommended WAG and Operable Unit to which site should be assigned:

WAG: 3

Operable Unit: OU 3-14
Note: This action does not create a new CERCLA site since CPP-058 is an existing site identified in the FFA/CO Work Plan with a Track 2 investigation that was completed in November 1993. This action is providing additional information that will support the future OU 3-14 RI/FS investigation for this site.

Recommended action for this site:

☐ No Action ☐ No Further Action ☐ Remedial Action under Existing ROD ☐ Track 2 ☒ RI/FS

8. Responsible Manager Signature:

Name: JL Butler Signature: [signature] Date: 9/8/05

NEW SITE IDENTIFICATION (NSI)

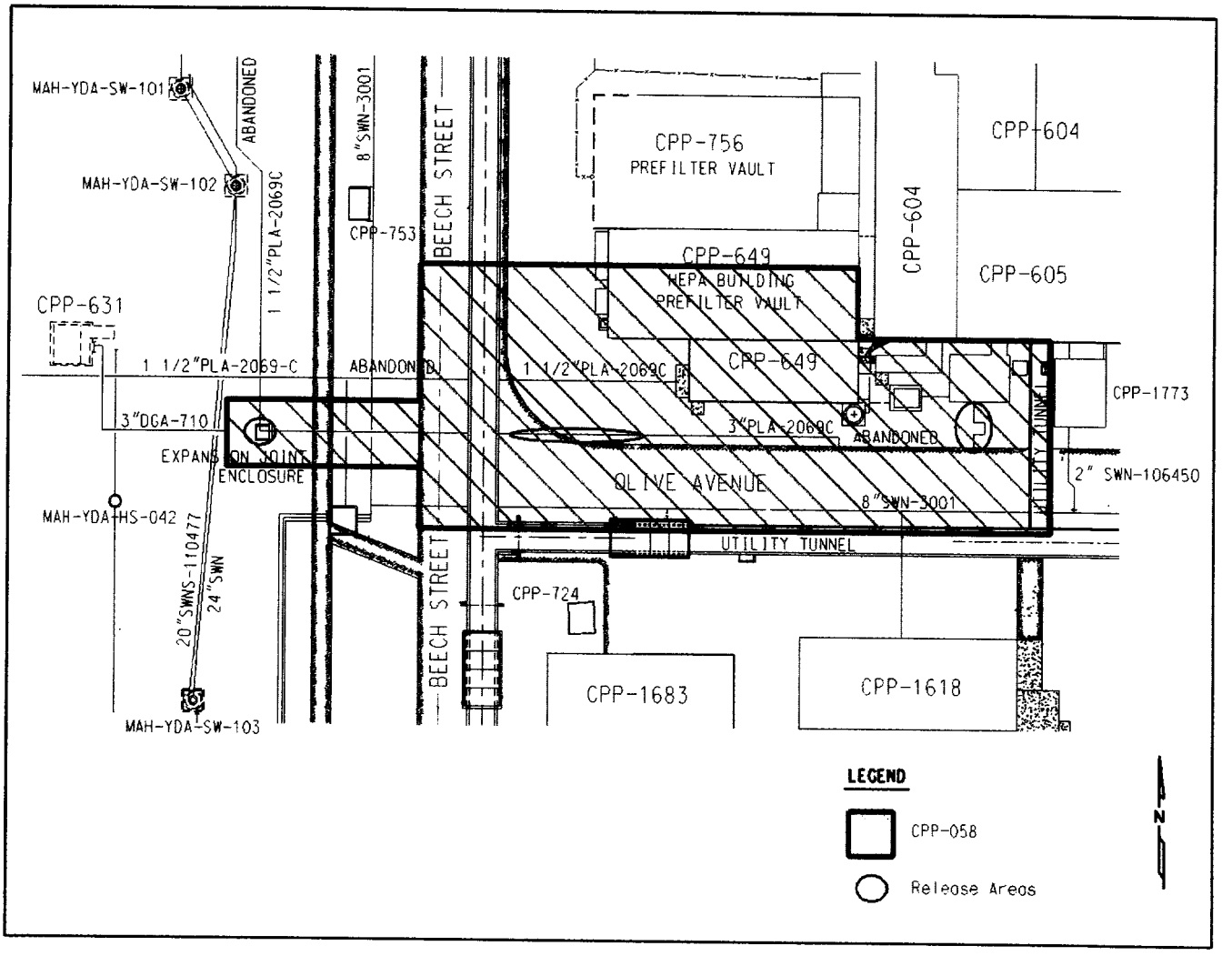

Figure 1. Release site CPP-058 and release locations described in this NSI.

NEW SITE IDENTIFICATION (NSI)

PART B – INEEL FFA/CO RESPONSIBLE PROGRAM MANAGERS (RPM'S) CONCURRENCE

Site Title:
CPP-PEW Evaporator Overhead Pipeline Spills (Additional Information)

Site Code:
CPP-058

DOE-ID FFA/CO RPM Concurrence: ☒ Concur with recommendation. ☐ Do not concur with the recommendation.

Signature: Kathleen E Hain Date: 5/24/05

Explanation: It is appropriate to include all known and probable releases from the PEW steam line in one release site.

EPA FFA/CO RPM Co[illegible]ce: ☒ Concur with recommendation. ☐ Do not concur with the recommendation.

Signature: [illegible] Date:

Explanation:
RECOMMEND INCLUDING THE RELEASE FROM TRANSFER LINE 3" PLA-2069C WITHIN THE BOUNDARY OF CPP-058. THE EXTENT OF THE RELEASE ALONG THE LINE 1 1/2" PLA-2069L SHOULD BE INVESTIGATED TO DETERMINE THE BOUNDARY OF CPP-058 NORTH OF THE LINE ELBOW.

State of Idaho FFA/CO RPM Concurrence: ☒ Concur with recommendation. ☐ Do not concur with the recommendation.

Signature: Gary L. Fish Date: 5-25-05

Explanation: I agree that it is appropriate to include all known and potential releases from the PEW evaporator overheads pipeline in one release site (CPP-058). The 1.5" line that runs north of the expansion joint enclosure (west of Beach st.) should also be investigated for potential releases and if necessary, also included in site CPP-058.

Appendix A

Unusual Occurrence Report
80-15

NEW SITE IDENTIFICATION (NSI)

Rev. 3-28-80

TRACKING SHEET

Report No. 80-15

Date of Occurrence August 19, 1980 WS2 SITE CPP-58

Occurrence Subject Leak in 3" PLA-2069C PEW Evaporator Pump Outline

Report Originated By F. S. Ward

Responsible Supervisor/Section Manager W. A. Mickelson

Department Manager S. G. Smolen

Tracking Interim

Tracking Final

Rec. 8-28
To Printing 8-28
Rec. 9-3
Final Dist. 9-3-80

Soil Excavated
Leak repaired
~~No rad~~ Less than 2 rt Rad
Put soil back in trench

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00/00/2005
Rev. 06

NEW SITE IDENTIFICATION (NSI)

EXXON NUCLEAR ID

UNUSUAL OCCU

D. R. Alexander
CPP 624

File

1. Contractor	2. Facility	
ENICO	ICPP	OUTSIDE CPP-649

4. Report No.	5. ☐ Preliminary ☐ Interim (if needed) XX Final	6 Date and Time of Occurrence
80-15		8-19-80 0745

7. Occurence Subject

LEAK IN 3" PLA-2069C PEW EVAPORATOR PUMP OUTLINE.

8. Description of Occurrence and Designation of Apparent Cause

XXX Design ☐ Material ☐ Personnel ☐ Procedure ☐ Other

Liquid was observed comming uo from the ground between the southwest corner of CPP-649 and the Beech St. caps tunnel. The liquid had a noticable nitric acid smell. The pump out from WL-106 was stopped and the liquid soaked into the ground. 3" PLA-2069C, the PEW Evaporator process condensate and steam condensate pump out line passes through that area and it was decided that this line had broken where it is trapped under the pup tunnel. This area was excavated and the upper elbow on the east side of the Beech street tunnel was found to be cracked. It appeared that this line had "grown" approx. 8" during the heating cycles. This line had broken several times in the past, at either end, before the pup tunnel was installed. Expansion loops were added at both ends to stop the cracking. This line was trapped under the pup tunnel in 1979 and it was felt that the expansion loops on each end would be enough to handle the expansion. It now seems that the expansion loops did not handle the expansion properly causing the upper elbow of the trapped section of the line to move to the west approx. 8" and upward approx. 15". This expansion caused the 45° elbow to deform and the inside wall cracked leaking condensate to the ground.

9. Operating Conditions of the Facility at Time of Occurrence (If Applicable)

PEW Evaporator, WL-161 in operation.
CPP-601 Operations cold testing.
WCF Decontamination work.

10. Consequences of Occurrence

PEW Evaporator, WL-161, shut down for approx. 20 hours.
CPP-601 Cold testing slowed down.
WCF Decontamination work slowed down.

NEW SITE IDENTIFICATION (NSI)

11. Immediate Evaluation, Corrective Action Taken and Results

The broken line was cut out and a new section of pipe was installed. This time the pipe was bent instead of using a 45° elbow fitting. Also a thrust plate was added to the elbow and butted against the pup tunnel. This should force the expansion loop to take more of the expansion, and keep the new piece in place.

The PEW Evaporator was placed back in service and it operated properly.

12. Recommendations

a. Temporary Corrective Action

Same as immediate corrective action. Work is complete.

b. Permanent Corrective Action

MJR # 24036 should permanently resolve this problem. This MJR will seperate the hot steam condensate line from the cold process condensate line. Then this line should not under go the heating expansion. This MJR is ready to schedule. Work started on 8-25-80.

Is Design Change Necessary? X Yes ☐ No	If Yes, When Complete.	
Is Further Evaluation Necessary? ☐ Yes X No	If Yes, By Whom	When
Permanent Corrective Action To Be Implemented YES	Name W. A. Mickelson	Date By November 1, 1980

13. Similar Occurrence: By Report Number and Occurrence Subject

None

14. Estimated Cost of Occurrence

Labor and Material	$2500.00
Exposure	"0"

Report Originated By F. S. Ward	Date 8-25-80	Approved By (Department Manager)	Date 8/27/80
Approved By (Section Manager) W. A. Mickelson	Date 8-25-80	Approved By (QA S&S Manager) D. A. Mickelson	Date 8/27/80

435.36
00/00/2005
Rev. 06

NEW SITE IDENTIFICATION (NSI)

241.93
07/18/2003
Rev. 00

VCO PROGRAM
RECORDS TRANSMITTAL

Originator Section
(Fill in bolded fields or use N/A when applicable.)

1. **Document ID Number:**	N/A **Rev.:** N/A
2. **Document Date:**	August 19 1890
3. **Document Title/Description or Subject:**	Tracking Sheet Report Number 80-15 Leak in 3" PLA-2069C PEW Evaporator Pump Outline
4. **Externally Released?**	Yes ☐ No ☐
5. **Document Owner/Author:**	FS Ward
6. **Charge Number:**	1006672A1
7. **Total Pages of Document:**	4
8. **Keywords and SSC-ID:**	EDF-2964 INTEC-095 Supporting Documentation
9. **Media Type:**	Hard Copy ☒ Disk ☐ Other ☐ (Specify)
10. **Scan/Index:**	Scan ☒ Index Only ☐
11. **UFC:** 6104	**Disposition Authority:**
	ENV1-j-1 ☒ Cut off at end of Program. Destroy 75 yrs after cut off.
	ENV1-k-2-a ☐ Cut off Program closure. Permanent. (Innovative Technology)
	Other ☐ Specify:
12. **If QA Record, Validator Sign and Date:**	Sign: Date:
13. **QA Record Classification:**	Non Permanent ☐ Lifetime ☐ DOE/RW-0333P (SNF/HLW related) ☐
14. **Receiver/Verifier of QA Record:**	Sign: Date:

Records Coordinator Section
(Fill in bolded fields or use N/A when applicable.)

15. **Drawings/Photos:**	ID:	Convert:	Job No.:	QC:
	ID:	Convert:	Job No.:	QC:
	ID:	Convert:	Job No.:	QC:
16. **Records Processing:**	Scan ID:		Job No.:	
	Scan:	Date:	Area:	INEEL
	Import:	Date:	Cabinet:	VCO
	Index:	Date:	Drawer:	SITE-TANK-005
	QC:	Date:	Folder:	EDF
	Delete Tif:	Date:	File Index:	3.95.3

If record is to be indexed only, use light green paper for transmittal form.
If record is to be scanned and indexed, use any colored paper, other than light green.
Each CFL/SFL should have consistent color-coding for transmittal form of scanned records.

Appendix B

Memo of Conversation

Memo of conversation between Nielsen Burch and Frank Ward 526-3010 5/4/2005

I told Frank that the Unusual Occurrence Report number 80-15 stated that "This line had broken several times in the past, at either end, before the pup tunnel was installed." Frank said that this is what he had been told since he did not start work there until Sept. 1977 after the breaks happened. Significant Operating Occurrence Report (SOOR) or Unusual Occurrence Report (UOR) may be where information can be found. He said that it broke twice outside CPP-604 and once at the elbow where the pipe turns from west to north. He said that the breaks are caused by excessive expansion and contraction of the pipe. The steam condensate discharge flows continuously at approximately 100 degrees C. The process condensate comes on as needed and is about 30 degrees C. This causes a significant temperature change which causes the expansion and contraction. The pump rate for the process condensate is about 40 gallons/minute. It can take as long as 4 hours to pump out the process condensate, with changes happening at 8 to 10 hour intervals. The tunnel was installed in 1978.

The largest volumes of process condensate that have been processed have been 800,000 to 900,000 gallons/month. The lowest volumes produced were 200 to 400 gallons/month. Exact numbers could be obtained from Dan Staiger and the Production Monthly Reports. The PEWE typically produces one gallon of process condensate for each 10 lbs of steam. This is a ratio of about 10 to 8. The PEWE has available to it 5000 lbs/hr of steam (600 gallons/hr). The waste that is processed through the PEWE has a decontamination factor of 10 to the 6th for the process waste. The PEWE takes out most of the contaminants. The process waste now goes to the LET&D.

Appendix C

PEW Overhead (Process Condensate) Sample Results
11/26/1988 and 12/1/1988
Document number 30509

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PURPOSE: To identify the components of the PEW overhead (condensate) in the service waste system.

PROCEDURE 1: Sampling of the PEW condensate batch tank (WL-106), the service waste discharge to the percolation pond and the Percolation Pond was completed on 10/26/88 during shift 3. The special samples were taken before, during, and after a PEW condensate (Tank WL-106, Batch #300) pumpout. Six samples were taken as indicated:

CODE	SAMPLE SOURCE AND CONDITION	TIME
SPPEW 1 & 2	PEW condensate tank WL-106, batch #300 before pumpout	1630
PREPEW 1 & 2	Service Waste discharge pipe before pumpout of batch #300	1745
PEW30MIN 1 & 2	Service Waste discharge pipe 30 minutes into pumpout of batch #300	1810
PEW1HR 1 & 2	Service Waste discharge pipe 1 hour into pumpout of batch #300	1845
PEWEND 1 & 2	Service Waste discharge pipe after pumpout of batch #300	1920
GRABPOND 1 & 2	Perc Pond standing water after pumpout of #300	1925

PROCEDURE 2: Sampling of the PEW condensate batch tank (WL-106), the service waste discharge to the percolation pond and the Percolation Pond was completed on 11/1/88 during shift 2. The special samples were taken before, during, and after a PEW condensate (Tank WL-106, Batch #308) pumpout. Seven samples were taken as indicated:

CODE	SAMPLE SOURCE AND CONDITION	TIME
1A, 1B, & 1C	Perc Pond standing water before pumpout of #308	1034
2A, 2B, 2C, & 2D	Service Waste discharge pipe before pumpout of #308	1050
3A, 3B, & 3C	Service Waste discharge pipe 30 minutes into pumpout of #308	1122
4A, 4B, & 4C	Service Waste discharge pipe 1 hour into pumpout of #308	1151
5A, 5B, & 5C	Service Waste discharge pipe after pumpout of #308	1237
6A, 6B, 6C, & 6D	Perc Pond standing water after pumpout of #308	1246
7A, 7B, 7C, & 7D	PEW condensate tank WL-106, # 308 before pumpout	0945

Procedure 1

All Units are mg/l unless otherwise noted

ANALYSES	SPPEW	PREPEW	PEW 30 MIN	PEW 1 HR	PEW END	GRAB POND	EP TOXICITY LIMITS	DRINKING WATER STANDARDS
Thallium (DL=0.014)	ND	ND	ND	ND	ND	ND	NONE	NONE
Sulfate	<0.11201	27.057	23.515	34.829	22.841	112.20	NONE	250
Silver (DL=0.00075)	0.0010	0.0018	ND	ND	ND	ND	5	0.05
Selenium (DL=0.0020)	ND	ND	ND	ND	ND	ND	1.0	0.01
Phosphate	0.38741	<0.1141	<0.1141	<0.1141	<0.1141	<0.1141	NONE	NONE
Organic-C	39.48	6.5	8.84	6.17	31.6	22.6	NONE	NONE
Nitrate (as N)	28.3	.95	8.72	1.20	1.20	9.6	NONE	10
Nickel (DL=0.0035)	ND	ND	ND	ND	0.0044	ND	NONE	NONE
Mercury (DL=0.00050)	0.028	ND	0.0021	ND	ND	0.00050	0.2	0.002
Lead (DL=0.019)	ND	ND	ND	ND	ND	ND	5.0	0.05
Fluoride	0.6317	<0.38	<0.38	<0.38	<0.38	<0.38	NONE	~~2~~ 2 mg/l 4.0 mg/l secondary
Cyanide	<10 PPB	<10 PPB	<10 PPB	<10 PPB	<10 PPB	<10 PPB	NONE	NONE
Chromium	0.0022	0.0064	0.0071	0.0075	0.013	0.0096	5.0	0.05
Chloride	1.3236	16.790	15.827	15.758	16.116	96.189	NONE	250
Cadmium (DL=0.0015)	ND	ND	ND	ND	ND	ND	1.0	0.010
Barium (DL=0.0012)	ND	0.0019	ND	ND	ND	0.036	100	1
Arsenic (DL=0.0050)	ND	ND	ND	ND	ND	ND	5.0	0.05

ND = Not Detected
DL = Detection Limit
SPPEW - PEW Condensate tank WL-106, Batch #300
PREPEW - Service Waste discharge pipe before pumpout of #300
PEW 30 MIN - Service Waste discharge pipe 30 minutes into pumpout of #300
PEW 1 HR - Service Waste discharge pipe 1 hour into pumpout of #300
PEWEND - Service Waste discharge after pumpout of #300
GRABPOND - Perc Pond standing water after pumpout of #300

Pr edure 1

*Units = uci/ml unless otherwise noted

ANALYSES	SPPEW	PREPEW	PEW 30 MIN	PEW 1 HR	PEW END	GRAB POND	DRINKING WATER STANDARDS
Total U*	1.1E-9	2.3E-9	1.8E-9	2.2E-9	2.4E-9	2.5E-9	NONE
Total Pu*	5.9E-8	1.2E-10	6E-9	8E-10	2.7E-10	8E-9	NONE
Conductivity (umhos/cm)	750	370	350	360	370	750	NONE
pH	2.9	8.6	7.9	8.4	8.1	7.9	6.5 - 8.5
TDS (mg/l)	2	340	320	260	210	620	500
I-129*	4.8E-7	<1E-8	3.8E-8	<2E-8	<1E-8	<8E-9	NONE
C-14*	1.9E-7	<2E-8	<1E-8	<1E-8	<1E-8	<1E-8	NONE
H-3*	1.6E-3	<2E-6	8.7E-5	1.9E-5	<2E-6	2E-5	NONE
Sr-89*	<2E-9	<4E-9	<3E-9	<4E-9	<5E-9	<4E-9	NONE
Sr-90*	1.38E-6	<2E-9	3.1E-7	2.6E-8	<4E-9	9.7E-8	NONE
Total Sr*	1.49E-6	<3E-8	3.28E-7	2.9E-8	4E-9	8.5E-8	NONE
Gross Alpha*	<3E-8	<3E-8	6E-8	<3E-8	<3E-8	6E-8	NONE
Gross Beta*	7.4E-6	3.5E-8	2.61E-6	2E-7	8E-8	4E-7	NONE

SPPEW - PEW Condensate tank WL-106, Batch #300
PREPEW - Service Waste discharge pipe before pumpout of #300
PEW 30 MIN - Service Waste discharge pipe 30 minutes into pumpout of #300
PEW 1 HR - Service Waste discharge pipe 1 hour into pumpout of #300
PEWEND - Service Waste discharge after pumpout of #300
GRABPOND - Perc Pond standing water after pumpout of #300

Procedure 1

Gamma Scan Results

Units = D/S/ml

NUCLIDE	SPPEW	PREPEW	PEW 30 MIN	PEW 1 HR	PEW END	GRAB POND
Sb-125	0.0613	0.00135	0.00633	ND	ND	0.00181
Ru-106	0.336	0.0246	0.0404	ND	ND	0.0129
Cs-137	0.14100	ND	0.02600	0.03950	0.00197	0.00734
Cs-134	0.019	ND	0.0035	0.00053	ND	0.00089
Ce-144	ND	ND	0.0047	ND	ND	ND

ND = Not Detected
SPPEW - PEW Condensate tank WL-106, Batch #300
PREPEW - Service Waste discharge pipe before pumpout of #300
PEW 30 MIN - Service Waste discharge pipe 30 minutes into pumpout of #300
PEW 1 HR - Service Waste discharge pipe 1 hour into pumpout of #300
PEWEND - Service Waste discharge after pumpout of #300
GRABPOND - Perc Pond standing water after pumpout of #300

Procedure 2

Volatile Organics EPA Method 8240

ANALYSES	1A	2A	3A	4A	5A	6A	7A	PUBLISHED EPA METHOD DETECTION LIMITS (MDL)
4-Methyl-2-Pentanone (MIBK) (Hexone) (mg/l)	0.032	0.94	0.92	1.3	ND	0.380	16	NONE
Trichloroethene (mg/l)	ND	ND	ND	ND	ND	ND	0.35	0.19

The Following Volatile Organics Were Not Detected EPA Method 8240

chloromethane
bromomethane
vinyl chloride
chloroethane
dichloromethane
trichlorofluoromethane
1,1-dichloroethane
1,1-dichloroethene
trans-1,2-dichloroethene
chloroform
1,2-dichloroethane
1,1,1-trichloroethane
carbon tetrachloride
bromodichloromethane
1,2-dichloropropane
trans,1,3-dichloropropene
trichloroethene
benzene
chlorodibromomethane
1,1,2-trichloroethane
cis-1,3-dichloropropene
2-chloroethylvinyl ether
bromoform
1,1,2,2-tetrachloroethane
tetrachloroethene
toluene
chlorobenzene
ethylbenezene
1,3-dichlorobenzene
1,2 & 1,4-dichlorobenzenes

ND = Not Detected
1A - Perc Pond standing water before pumpout of #308
2A - Service Waste discharge pipe before pumpout of #308
3A - Service Waste discharge pipe 30 minutes into pumpout of #308
4A - Service Waste discharge pipe 1 hour into pumpout of #308
5A - Service Waste discharge after pumpout of #308
6A - Perc Pond standing water after pumpout of #308
7A - PEW condensate tank WL-106, #308

Procedure 2

BNA Organics Detected - EPA Method 8270

All Units = mg/l

ANALYSES	2D	6D	7D	PUBLISHED EPA METHOD DETECTION LIMITS (MDL)
di-n-butyl phthalate	ND	ND	0.01	NONE
diethyl phthalate	ND	ND	0.0027	0.0019
bis(2-ethylhexyl)phthalate	0.012	ND	0.0057	0.0025
phosphoric acid tributyl ester (TBP)	0.039 *NE	0.22 *NE	2.8 *NE	NONE
unknown oxy compound**	ND	ND	0.06 *NE	NONE
carboxylic acid a***	ND	ND	0.02 *NE	NONE
carboxylic acid b***	ND	ND	0.026 *NE	NONE
carboxylic acid c***	ND	ND	0.015 *NE	NONE
alkane C16	ND	ND	0.03 *NE	NONE
unknown**	ND	ND	0.14 *NE	NONE
unknown**	ND	ND	0.011 *NE	NONE
alkane C23	ND	ND	0.027 *NE	NONE

ND - Not Detected
2D Service Waste discharge pipe before pumpout of #308
6D Perc Pond standing water after pumpout of #308
7D PEW condensate tank WL-106, #308

*N Analytical standards were not analyzed for this compound.
*E The reported concentration is an estimate only.
The response factor was assumed to be 1.000
relative to an internal standard.
** Unknown compounds detected but are unidentifiable.
*** 3 Compounds in the carboxylic acid group detected but are unidentifiable.

001964

Procedure 2

The Following BNA Organics Were Not Detected for Samples 2D, 6D, & 7D - EPA Methods 8270

N-nitrosodimethylamine
phenol
bis(2-chloroethyl)ether
2-chlorophenol
1,3-dichlorobenzene
1,4-dichlorobenzene
1,2-dichlorobenzene
bis(2-chloroisopropyl)ether
N-nitrosodi-n-propylamine
hexachloroethane
nitrobenzene
isophorone
2-nitrophenol
2,4-dimethylphenol
bis(2-chloroethoxy)methane
2,4-dichlorophenol
1,2,4-trichlorobenzene
naphthalene
hexachlorobutadiene
4-chloro-3-methylphenol
hexachlorocyclopentadiene
2,4,6-trichlorophenol
2-chloronaphthalene
demethyl phthalate
2,6-dinitrotoluene
acenaphthylene
acenaphthene
2,4-dinitrophenol
4-nitrophenol
2,4-dinitrotoluene
4-chloropenyl-phenylether
fluorene
2-methyl-4,6-dinitrophenol
N-nitrosodiphenylamine
4-bromophenyl-phenylether
hexachlorobenzene
beta-BHC
pentachlorophenol
phenanthrene
anthracene
delta-BHC
heptachlor
aldrin
heptachlor epoxide
fluoranthene
pyrene
endosulfan I
4,4'DDE
benzidine
dieldrin
endrin
4,4'DDD
endosulfan II
endrin aldehyde
benzyl-butylphthalate
4,4'DDT
endosulfan sulfate
benzo(a)anthracene
chrysene
3,3-dichlorobenzidine
di-n-octylphthalate
benzo(b)fluroanthene
benzo(k)fluoranthene
benzo(a)pyryne
indeno(1,2,3-cd)pyrene
dibenzo(a,h)anthracene
benzo(ghi)perylene
chlordane
toxaphene
PCB-1016
PCB-1221
PCB-1232
PCB-1242
PCB-1248
PCB-1254
PCB-1260