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APR 2 3 2002

02-TOD-038

Mr. Michael A. Wilson, Program Manager
Nuclear Waste Program
State of Washington
Department of Ecology
1315 W. Fourth Avenue
Kennewick, Washington 99336

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Dear Mr. Wilson:

TRANSMITTAL OF A TECHNICAL SAMPLING BASIS AND WASTE INFORMATION REQUIREMENTS DOCUMENT QUARTERLY REPORT FOR THE PERIOD JANUARY 1, 2002, TO MARCH 31, 2002, IN PARTIAL FULFILLMENT OF HANFORD FEDERAL FACILITY AGREEMENT AND CONSENT ORDER MILESTONE M-44-15F

The submission of this report partially fulfills the agreement made between the U.S. Department of Energy, Office of River Protection (ORP) and the State of Washington Department of Ecology for submitting quarterly reports within 30 days of the end of each Fiscal Year (FY) quarter. This report provides discussions of second quarter FY 2002 activities. Characterization project activities planned for the next 90 days are also included in this report.

During this quarter core samples from Tank 241-AP-105 were completed. Grab sample were taken from Tank 241-AP-108. Issues affecting the quarter's planned core and grab samplings are discussed. Three Tank Characterization Reports were completed during this quarter.

If you have any questions, please contact me, or your staff may contact Wen-Shou Liou, Technical Operations Division, (509) 373-9879.

Sincerely,

James E. Rasmussen

James E. Rasmussen, Director
Environmental Management Division

TOD:WSL

Attachment

cc: See page 2

cc w/attach:
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TPA Administrative Record w/att

CHG-0201518

Attachment

CONTRACT NUMBER DE-AC27-99RL14047: TECHNICAL SAMPLING BASIS-WASTE INFORMATION REQUIREMENTS DOCUMENT (TSB-WIRD) QUARTERLY REPORT FOR THE PERIOD JANUARY 1, 2002 TO MARCH 31, 2002

Consisting of 16 pages
including cover page

TSB-WIRD Quarterly Report, January 1, 2002, through March 31, 2002

EXECUTIVE SUMMARY

Highlights for this second quarter reporting period are:

- Obtained core samples from tank AP-105.
- Obtained grab samples from tank AP-108.
- Issued three Auto (Electronic) Tank Characterization Reports for tanks AP-104, S-109, and SY-102.
- Input characterization data for seven tanks into the Tank Waste Information Network System (TWINS) electronic database within seven days of release of each laboratory analysis report in support of the *Hanford Federal Facility Agreement and Consent Order* (Tri-Party Agreement) Milestone M-44-16F. The seven tanks are AN-102, AN-105, AP-102, AP-108, C-103, S-105, and S-112. Polychlorinated biphenyl data from the analysis of archive samples were also input into the TWINS database during the second quarter.
- Held a Partnering Team meeting with the Washington State Department of Ecology (Ecology) on January 24, 2002 (see Section 6.0).

Several issues during the second quarter of Fiscal Year (FY) 2002 affected the quarter's planned core and grab samplings with deferral of some samples to the third quarter. (See Section 1.2.)

Reporting on a tank-by-tank basis of sampling and other deliverables provided during the second quarter of FY 2002 is provided in this report.

A look-ahead at the Characterization Program activities planned for the next 90-day period is provided.

TABLE OF CONTENTS

EXECUTIVE SUMMARY i

1.0 CHARACTERIZATION ACCOMPLISHMENTS AND ISSUES 1
- 1.1 Accomplishments 1
- 1.2 Issues 1

2.0 CHARACTERIZATION PROGRAM PERFORMANCE 2
- 2.1 Core Sampling 2
- 2.2 Grab Sampling 2
- 2.3 Vapor Sampling 3
- 2.4 Auger Sampling 3
- 2.5 Schedule Performance 3
- 2.6 Tank Characterization Reports (TCR) 3

3.0 STATUS TABLES 4

4.0 LOOK AHEAD 7

5.0 PROGRAMS AND ISSUES STATUS 7
- 5.1 Operations 8
- 5.2 Evaporator Operations 8
- 5.3 Interim Stabilization (Compatibility) 8
- 5.4 Corrosion Control 8
- 5.5 Interface Control Document 23 (ICD-23) 8
- 5.6 Waste Feed Delivery Phase 1 9
- 5.7 Single-Shell Tank Retrieval and Tank Closure 9
- 5.8 Key Processing Parameters 9
- 5.9 Waste Processing and Disposal 9
- 5.10 Dangerous Wastes (Regulatory Compliance) 9
- 5.11 Polychlorinated Biphenyls (PCB) 9
- 5.12 Air Emissions (Regulatory Compliance) 10
- 5.13 Miscellaneous Facilities 10
- 5.14 Waste Certification (ICD-19 and ICD-20) 10
- 5.15 Miscellaneous Operations 10
- 5.16 Safety Screening 11

6.0 PARTNERING TEAM MEETING 11
- 6.1 Sampling Schedule and the 244-AR Facility 11
- 6.2 Substitute TCR for Tank U-107 11

LIST OF TABLES

Table 1. Summary of Sampling by Issue 5

Table 2. TCRs Issued During FY 2002 7

1.0 CHARACTERIZATION ACCOMPLISHMENTS AND ISSUES

1.1 Accomplishments

Tables 1 and 2 summarize the sampling events and reports completed by the Characterization Project during Fiscal Year (FY) 2002. Events and reports completed during the second quarter of FY 2002 (January 1, 2002, through March 31, 2002) are shown in bold in the tables. Table 1 is patterned after Table 7-1 in the FY 2002 Technical Sampling Basis - Waste Information Requirements Document (TSB-WIRD), RPP-8093, Rev. 0. Table 1 compares progress against planning levels in the FY 2002 TSB-WIRD for the entire fiscal year. Table 2 lists the tank characterization reports (TCRs) issued during FY 2002 and the associated issues addressed by each. Notable accomplishments of the Characterization Project during the second quarter of FY 2002 include:

- Obtained core samples from tank AP-105.
- Obtained grab samples from tank AP-108.
- Issued three Auto (Electronic) Tank Characterization Reports for tanks AP-104, S-109, and SY-102.
- Input characterization data for seven tanks into the Tank Waste Information Network System (TWINS) electronic database within seven days of release of each laboratory analysis report in support of the *Hanford Federal Facility Agreement and Consent Order* (Tri-Party Agreement) Milestone M-44-16F. The seven tanks are AN-102, AN-105, AP-102, AP-108, C-103, S-105, and S-112. Polychlorinated biphenyl data from the analysis of archive samples were also input into the TWINS database during the second quarter.
- Held a Partnering Team meeting with the Washington State Department of Ecology (Ecology) on January 24, 2002 (see Section 6.0).

1.2 Issues

Four issues during the second quarter FY 2002 affected the quarter's planned samplings with deferral of some samples to the third quarter:

- The grab sampling of tank U-107 was delayed because of low flow rates in the waste transfer lines servicing the U tank farm. Sampling of tank U-107 will support the saltcake dissolution test to be performed in this tank. Efforts to improve the flow rates through the transfer lines began during the second quarter of FY 2002 and are continuing during the third quarter. Grab sampling of tank U-107 will be performed when the flow rates are sufficient to support the saltcake dissolution studies.

- The anticipated second-quarter grab sampling of tank AN-107 was deferred to the third quarter because the planned addition of caustic to the tank was not completed until March 1, 2002, and a minimum of thirty days is required between caustic addition and the sampling event.

- Poor weather caused some delays in completion of the AP-105 core sample. This delay caused deferral of the AY-101 and AY-102 core samples until the third quarter.

- Delays in the cross-site transfer from SY-102 to AP-102 caused the deferral of the sampling of tank SY-102 for compatibility until the third quarter. The cross-site transfer was not completed until March 23, 2002.

2.0 CHARACTERIZATION PROGRAM PERFORMANCE

2.1 Core Sampling

The "Look Ahead" section in the FY 2002 TSB-WIRD First Quarter Report anticipated acquiring one push-mode core each from tanks AP-105 (corrosion control, polychlorinated biphenyls [PCBs]), AY-101 (corrosion control), and AY-102 (corrosion control) during the second quarter of FY 2002. The core sampling of tank AP-105 was completed. The core samplings of tanks AY-101 and AY-102 were deferred to the third quarter. See Section 1.2 for additional information.

2.2 Grab Sampling

The "Look Ahead" section in the FY 2002 TSB-WIRD First Quarter Report anticipated that the following grab sampling events would be completed during the second quarter of FY 2002: tank AN-107 (corrosion control), tank SY-102 (compatibility for cross-site transfer, PCB), and tank U-107 (saltcake dissolution demonstration for single-shell tank (SST) retrieval and closure, PCB).

Grab sampling of tank AP-108 was completed. Grab sampling of tank AN-107 was deferred to the third quarter because the planned addition of caustic to the tank was not completed until March 1, 2002, and a minimum of thirty days is required between caustic addition and the sampling event. Grab sampling of tank SY-102 for compatibility was delayed due to the late completion of the cross-site transfer from tank SY-102 to tank AP-102. Grab sampling of tank U-107 was deferred until saltwell pumping of that tank is resumed. See Section 1.2 for additional information.

2.3 Vapor Sampling

No vapor sampling is planned or scheduled for FY 2002.

2.4 Auger Sampling

No auger sampling is planned or scheduled for FY 2002.

2.5 Schedule Performance

At the end of the second quarter of FY 2002, the Characterization Program was behind schedule in comparison to the Sampling Schedule, Revision 5.8:

- During the second quarter of FY 2002, truck #4 was operational and used to push-mode core sample tank AP-105. Trucks #1 and #3 were in corrective maintenance outages; truck #2 is retired. At the end of the second quarter of FY 2002, a total of four core samples have been collected from four different tanks against FY 2002 schedules: one core each was collected from tanks AW-104 and AW-105 during the fourth quarter of FY 2001, one core from tank AN-105 during the first quarter of FY 2002, and one core from tank AP-105 during the first quarter of FY 2002. This is behind the six core samples originally scheduled to be completed by the end of the second quarter.

- During the second quarter of FY 2002, grab sampling of tank AP-108 was completed. By the end of the second quarter of FY 2002, a total of five tanks have been sampled of the eight tanks scheduled, which is behind schedule for the end of the second quarter of FY 2002 (see Section 1.2).

- See Table 1 for listing of specific tanks sampled and the programs/issues the samplings supported.

2.6 Tank Characterization Reports (TCR)

During the second quarter of FY 2002, three TCRs, one each for tanks AP-104, S-109, and SY-102, were issued for a total of four TCRs issued in FY 2002. The four TCRs are identified in Table 2, and are accessible at the following Internet location:

- http://twins.pnl.gov:8001/

The FY 2002 TSB-WIRD originally identified completion of a TCR for tank U-107. However, as a result of the Partnering Team meeting of January 24, 2002, a TCR to be completed during

FY 2002 for tank AW-105 was substituted for the tank U-107 TCR (see Section 6.2 of this report). Sampling of tank U-107 is contingent upon resumption of saltwell pumping of the tank.

3.0 STATUS TABLES

Table 1, Summary of Sampling by Issue, is patterned after Table 7-1 in the FY 2002 TSB-WIRD (RPP-8093, Rev. 0). Table 1 columns of particular interest for FY 2002 are:

> Tanks Needed for FY 2002 TSB-WIRD Commitments: The number of tanks originally identified in the FY 2002 TSB-WIRD as the minimum needing to be sampled during FY 2002 (condensed or vapor phase) in support of each of the River Protection Project (RPP) program issues. These numbers are sometimes referred to as the FY 2002 deliverables/commitments to the Washington State Department of Ecology. They are considered the baseline numbers for FY 2002.
>
> Tanks Scheduled FY 2002: The number of tanks supporting each issue scheduled to be sampled in FY 2002. They are based on the most current Characterization Program Sampling Schedule Revision 5.8.
>
> Tanks Sampled Against FY 2002 TSB-WIRD Commitments: Number of tanks that have been sampled through March 31, 2002, in support of issues and commitments in the FY 2002 TSB-WIRD. Tanks that were sampled during FY 2001 against FY 2002 TSB-WIRD commitments are included in this total.

Table 2 lists the TCRs published during FY 2002 and the associated programs/issues addressed by each.

Table 1. Summary of Sampling by Issue

Sampling Needed		Tanks Needed for FY 2002 TSB-WIRD Deliverables	Tanks Scheduled FY 2002 (Rev. 5.8)	Tanks Previously Sampled	Tanks Sampled This Quarter	Tanks Sampled Against FY 2002 TSB-WIRD Deliverables[1]	Tanks Sampled in FY 2002
Operations	cond	1	1	0	0	0	—
Evaporator Operations	cond	2	2	0	1	0 (1)	**AP-108 grab**
Interim Stabilization	cond	0	0	0	0	0	—
Corrosion Control	cond	6	11	6 (AW-104 core[2]) (AW-105 core[2])	1	3 (7)	AW-104 core[2], AW-105 core[2], AZ-102 grab, AN-102 grab, AP-102 grab, AN-105 core, **AP-105 core**
ICD-23	cond	0	0	0	0	0	—
Waste Feed Delivery Phase 1	cond	0	0	0	0	0	—
SST Retrieval and Tank Closure	cond	1	1	0	0	0	—
Key Processing Parameters		0	0	0	0	0	—
Waste Processing and Disposal	cond	0	0	0	0	0	—
Dangerous Wastes	cond	0	0	0	0	0	—
PCB	cond	OP	OP	3 (AW-104 core[2])	1	OP (4)	AW-104 core[2], C-103 grab, AP-102 grab, **AP-105 core**
Air Emissions	vap	0	0	0	0	0	—
Miscellaneous Facilities	cond	1	1	0	0	0	—
Waste Certification (ICD-19, ICD-20)	cond	0	0	0	0	0	—
Miscellaneous Operations	cond / vap	OC	OC	1	0	OC (1)	C-103 grab
Safety Screen	cond	OP	OP	0	0	OP	—

Table 1. Summary of Sampling by Issue

Sampling Needed	Tanks Needed for FY 2002 TSB-WIRD Deliverables	Tanks Scheduled FY 2002 (Rev. 5.8)	Tanks Previously Sampled	Tanks Sampled This Quarter	Tanks Sampled Against FY 2002 TSB-WIRD Deliverables[1]	Tanks Sampled in FY 2002

Notes:

Tanks shown in **BOLD** were sampled during the second quarter, January 1, 2002, to March 31, 2002.

[1] Numbers in parentheses do not reflect FY 2002 TSB-WIRD deliverables/commitments, but indicate total number of tanks sampled for the issue for or during FY 2002.

[2] These tanks sampled in FY 2001 against FY 2002 TSB-WIRD deliverables/commitments.

cond = condensed-phase sample (solid or liquid)
ICD = interface control document
OC = operationally contingent
OP = opportunistic sample
PCB = polychlorinated biphenyl
Rev. = revision
SST = single-shell tank
vap = vapor-phase sample

Table 2. TCRs Issued During FY 2002

TCRs	Issues Addressed
U-111*	Compatibility
SY-102*	Waste Processing and Disposal, Waste Feed Delivery, PCB, ICD-23, Air Emissions, Compatibility
AP-104*	Waste Processing and Disposal, Waste Feed Delivery, PCB, ICD-23, Air Emissions
S-109*	Compatibility, PCB

Notes:

* The sampling for these TCRs was conducted prior to FY 2002.

The TCRs shown in **BOLD** were issued during the Second Quarter, January 1, 2002, through March 31, 2002.

4.0 LOOK AHEAD

Characterization Program activities planned for the third quarter of FY 2002 (April 1 through June 30, 2002) include:

- Obtain one push-mode core each from tanks AY-101 and AY-102 for corrosion control.
- Obtain grab samples from tanks AN-102 (corrosion control), AN-107 (corrosion control), AP-107 (evaporator), and SY-102 (compatibility).
- Issue four TCRs, one each for tanks AN-106, AW-105, C-103, and C-107 using new sample data.

5.0 PROGRAMS AND ISSUES STATUS

This section addresses sampling conducted during the second quarter of FY 2002 for each of the programs and issues that were identified in the FY 2002 TSB-WIRD as requiring characterization sampling. Specific identification and a detailed discussion of the individual drivers for these programs and issues may be found in the FY 2002 TSB-WIRD (RPP-8093, Rev. 0).

5.1 Operations

Operations covers compatibility sampling for tank-to-tank transfers, cross-site transfers, and other miscellaneous requirements. No tanks were sampled for this issue during the second quarter of FY 2002 (see Section 1.2). The FY 2002 TSB-WIRD identifies sampling of tank SY-102 as the deliverable/commitment for the Operations issue; tank SY-102 is scheduled to be grab sampled three times during FY 2002 for this issue.

5.2 Evaporator Operations

Evaporator Operations includes sampling waste staged as feed for the 242-A Evaporator and sampling the Evaporator receiver tank AW-106. Tank AP-108 was sampled for this issue during the second quarter of FY 2002. The FY 2002 TSB-WIRD identifies sampling of tanks AP-107 and AW-106 as deliverables/commitments for the Evaporator Operations issue.

5.3 Interim Stabilization (Compatibility)

Interim Stabilization (Compatibility) covers sampling of SSTs to assess the compatibility of the SST liquid with the double-shell tank (DST) system prior to pumping of the SST liquid to the DST system. The FY 2002 TSB-WIRD does not identify any tanks to be sampled for the Interim Stabilization issue during FY 2002, and no tanks were sampled for this issue during the second quarter of FY 2002.

5.4 Corrosion Control

Corrosion Control covers sampling of DSTs to verify that DST tank waste composition is in compliance with Technical Safety Requirements Administrative Control 5.15 limits. During the second quarter of FY 2002, tank AP-105 was push-mode core sampled in support of this issue. The FY 2002 TSB-WIRD identifies six sampling deliverables/commitments for the Corrosion Control issue: tanks AN-102, AN-107, AW-104, AW-105, AY-101, and AY-102. Tanks AW-104 and AW-105 were push-mode core sampled during the fourth quarter of FY 2001 in support of FY 2002 TSB-WIRD deliverables/commitments for this issue. Tanks AN-102, AP-102, and AZ-102 were grab sampled and tank AN-105 was push-mode core sampled in support of this issue during the first quarter of FY 2002.

5.5 Interface Control Document 23 (ICD-23)

Sampling for the ICD-23 issue supports design and testing for the Waste Treatment Plant. The FY 2002 TSB-WIRD does not identify any tanks to be sampled for the ICD-23 issue during FY 2002, and no tanks were sampled for this issue during the second quarter of FY 2002.

5.6 Waste Feed Delivery Phase 1

Waste Feed Delivery Phase 1 sampling supports preparations for supplying waste from Phase 1 tanks to the Waste Treatment Plant. The FY 2002 TSB-WIRD does not identify any tanks to be sampled for the Waste Feed Delivery issue during FY 2002, and no tanks were sampled for this issue during the second quarter of FY 2002.

5.7 Single-Shell Tank Retrieval and Tank Closure

Sampling for this issue supports retrieval of SST waste into the DST system and preparation for SST closure activities. During the second quarter of FY 2002, no tanks were sampled in support of this issue (see Section 1.2). The FY 2002 TSB-WIRD identifies one sampling deliverable/commitment, tank U-107, for the SST Retrieval and Tank Closure issue; tank U-107 is scheduled to be grab sampled five times during FY 2002 in support of this issue.

5.8 Key Processing Parameters

Sampling for this issue supports measurement of certain waste properties and analytes that affect tank waste processing and disposal. The FY 2002 TSB-WIRD does not identify any tanks to be sampled for the Key Processing Parameters issue during FY 2002, and no tanks were sampled for this issue during the second quarter of FY 2002.

5.9 Waste Processing and Disposal

Waste Processing and Disposal sampling supports preparations for supplying waste from Phase 1 tanks to the Waste Treatment Plant. The FY 2002 TSB-WIRD does not identify any tanks to be sampled for the Waste Processing and Disposal issue during FY 2002, and no tanks were sampled for this issue during the second quarter of FY 2002.

5.10 Dangerous Wastes (Regulatory Compliance)

Sampling for the Dangerous Waste issue supports regulatory characterization of tank waste. The FY 2002 TSB-WIRD does not identify any tanks to be sampled for the Dangerous Waste issue during FY 2002, and no tanks were sampled for this issue during the second quarter of FY 2002.

5.11 Polychlorinated Biphenyls (PCB)

Sampling for the PCB issue supports determination of PCBs in SSTs and DSTs to ensure that the PCB waste acceptance limits for DSTs and the Waste Treatment Plant will be met. The FY 2002

TSB-WIRD does not identify specific sampling requirements for this issue. The PCB characterization plan for FY 2002 (RPP-6693, Rev. 2) indicates that sampling during FY 2002 in support of this issue is opportunistic. During the second quarter of FY 2002, tank AP-105 was push-mode core sampled in support of this issue. Tank AW-104 was push-mode core sampled during the fourth quarter of FY 2001 in support of this issue. Tanks AP-102 and C-103 were grab sampled in support of this issue during the first quarter of FY 2002.

5.12 Air Emissions (Regulatory Compliance)

Vapor sampling for this issue supports regulatory air permitting. The FY 2002 TSB-WIRD does not identify any tanks to be sampled for the Air Emissions issue during FY 2002, and no tanks were sampled for this issue during the second quarter of FY 2002.

5.13 Miscellaneous Facilities

Sampling for this issue supports interim stabilization of facilities that are not categorized as SSTs, DSTs, or inactive miscellaneous underground storage tanks. During the second quarter of FY 2002, no facilities were sampled in support of this issue. The FY 2002 TSB-WIRD identifies one sampling deliverable/commitment, the 244-AR vault, for the Miscellaneous Facilities issue. However, the sampling of the 244-AR vault may be deferred until the first quarter of FY 2003 (see Section 6.1).

5.14 Waste Certification (ICD-19 and ICD-20)

Sampling for this issue supports characterization of tank waste to determine if staged tank waste meets envelope specifications prior to transfer to the Waste Treatment Plant. The FY 2002 TSB-WIRD does not identify any tanks to be sampled for the Waste Certification issue during FY 2002, and no tanks were sampled for this issue during the second quarter of FY 2002.

5.15 Miscellaneous Operations

Sampling for miscellaneous operations supports sampling events associated with operational requirements not otherwise identified in the FY 2002 TSB-WIRD. These samples are acquired as operational requirements dictate. No tanks were sampled for this issue during the second quarter of FY 2002. During the first quarter of FY 2002, tank C-103 was grab sampled to confirm the presence of a floating organic layer in the tank.

5.16 Safety Screening

The FY 2002 TSB-WIRD identifies sampling for Safety Screening as opportunistic. Safety Screening analysis is applied to a tank sample only when a tank not previously sampled for Safety Screening is sampled for some other issue. No tanks were sampled for this issue during the second quarter of FY 2002.

6.0 PARTNERING TEAM MEETING

A Partnering Team meeting among the U.S. Department of Energy Office of River Protection (ORP), Ecology, and CH2M HILL Hanford Group, Inc., was held on January 24, 2002. Two issues were discussed: the possibility that the 244-AR facility may not be sampled by the end of FY 2002 and the need to substitute another TCR for the tank U-107 TCR.

6.1 Sampling Schedule and the 244-AR Facility

The current field sampling schedule for FY 2002 was discussed: sampling of all the tanks required by the FY 2002 TSB-WIRD should be completed by the end of FY 2002 except for the 244-AR facility. The waste from several tanks in the 244-AR facility must be consolidated prior to being sampled, but the current planning is to not perform this consolidation until early FY 2003. Efforts are underway to identify ways to accelerate the schedule for waste consolidation so that the sampling can be performed prior to September 30, 2002. If sufficient schedule acceleration cannot be identified by June 30, 2002, a request will be provided to ORP for Ecology concurrence to sample the facility in FY 2003 because no other tanks can be substituted for the miscellaneous facilities issue in FY 2002.

6.2 Substitute TCR for Tank U-107

The FY 2002 TSB-WIRD specifies nine TCRs to be completed in FY 2002; one of the identified TCRs is for tank U-107. A proposed substitution of a TCR for tank AW-105 was requested for tank U-107 TCR. The reason for this request is that a saltcake dissolution test is planned for tank U-107, with five sample events accompanying this demonstration. The analytical data from those five samples were to be included in the tank U-107 TCR. The dissolution test was originally planned to be completed by December 31, 2001; however, the dissolution test was postponed because the transfer line from U farm to SY-102 is partially plugged, and the reduced pumping rates caused by the plugged line would invalidate the dissolution test. Efforts are underway to clear the transfer line, but the transfer line is not expected to be restored and the dissolution test to be completed before June 2002. Consequently, insufficient time is available to complete the sample analysis early enough to incorporate the data into a TCR by September 30, 2002.

A TCR for tank AW-105 was proposed as a substitute for the tank U-107 TCR; the waste in tank AW-105 was core sampled in late FY 2001 to support the corrosion program and the laboratory analysis report for that core sample is issued. On March 22, 2002, Ecology granted approval for the substitution; the TCR for U-107 will be completed within 120 days after the laboratory analysis report for the dissolution test sample is issued.