**YANKEE ATOMIC ELECTRIC COMPANY**
*49 Yankee Road, Rowe, Massachusetts 01367*

March 16, 2007
BYR 2007-028

Mr. David Howland
Massachusetts Department of Environmental Protection
DEP Western Region
436 Dwight Street
Suite 402
Springfield, MA 01103

Subject: Yankee Nuclear Power Station (YNPS) Phase IV Final Inspection Report

Dear Mr. Howland:

Enclosed are YNPS's Phase IV Final Inspection Report and the associated supporting documentation. Included in this submittal is the following information:

- Phase IV Final Inspection Report;
- Comprehensive Response Action Transmittal Form & Phase I Completion Statement Form BWSC108;
- Phase IV Public Notification.

This information is being submitted in fulfillment of the requirements of the Massachusetts Contingency Plan (MCP), Code of Massachusetts Regulations pursuant to 310 CMR 40.

Should you require additional information please contact me at 860-267-3938 or Joseph Bourassa at 413-424-2223.

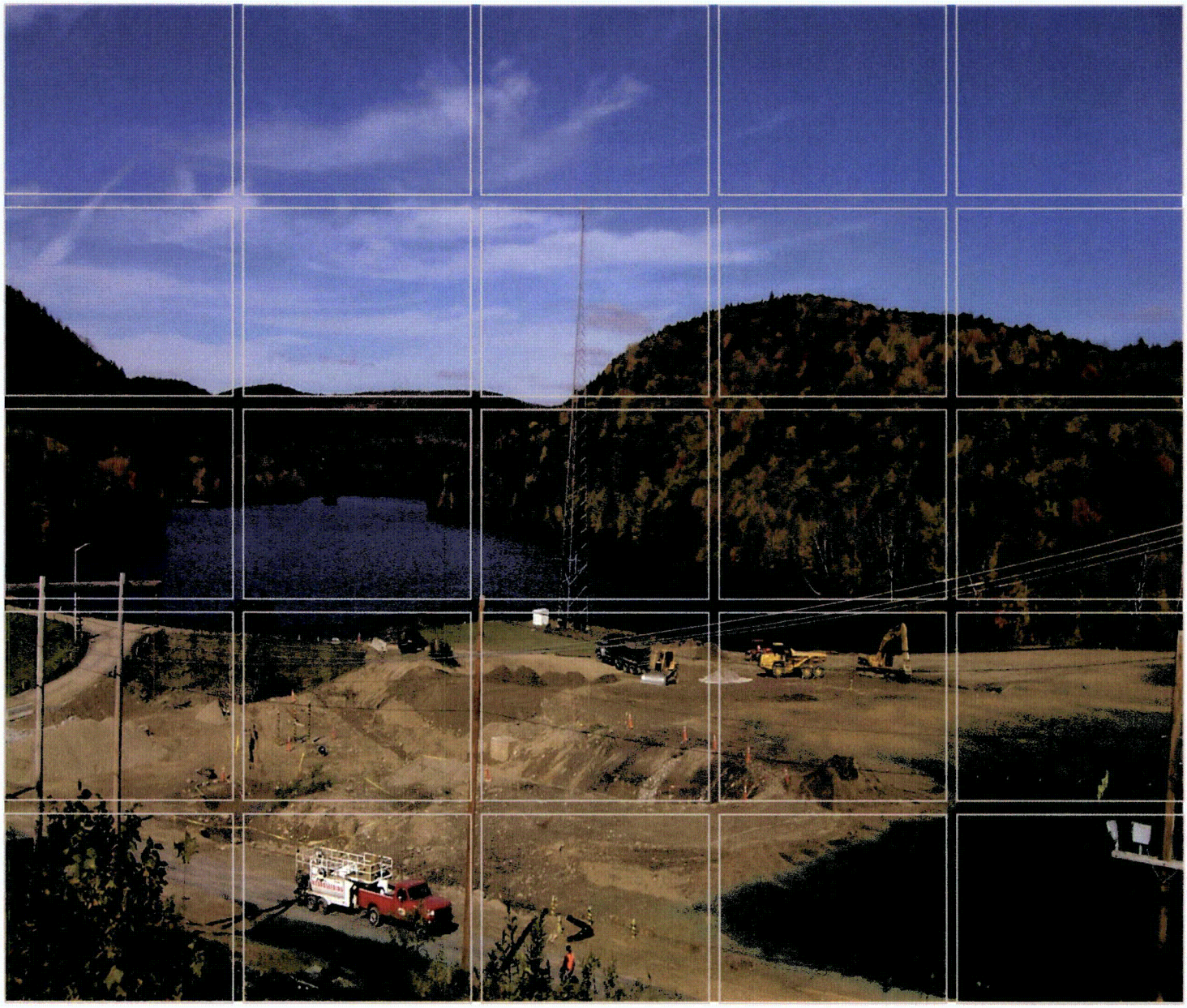
Sincerely,

Gerry van Noordennen

Gerry van Noordennen
Regulatory Affairs Manager

Attachment: YNPS Phase IV Final Inspection Report

cc: R. Walker, Director, Radiation Control Program, MA DPH
M. Whalen, Radiation Control Program, MA DPH
L. Hansen, MA DEP (WRO)
T. Kurpaska, MA DEP (WRO)
N. Bettinger, MA DEP (Boston)
C. Rowen, MA DEP (Boston)
L. Dunlavy, Franklin Regional Council of Government
P. Sloan, Greenfield Director of Planning & Development
W. Perlman, Franklin Regional Planning Board
T. Hutcheson, Franklin Regional Planning Board
E. Waterman, US EPA, Chemicals Management Branch Chief
M. Ballew, US EPA, Region I (Boston)
P. Newkirk, US EPA, Headquarters
K. Tisa, US EPA, Region I, TSCA Coordinator
J. Hickman, Project Manager, NRC MNSS
L. Kaufman, Regional Inspector, NRC Region I
D. Katz, Citizen's Awareness Network
Public Repository at Greenfield Community College
J. Block, Esq.



# Phase IV Final Inspection Report

Yankee Nuclear Power Station
Rowe, Massachusetts
RTN 1-13411

16 March 2007

ERM
399 Boylston Street
Boston, MA 02116
(617) 646-7800
www.erm.com

*Delivering sustainable solutions in a more competitive world*

*TABLE OF CONTENTS*

*LIST OF TABLES*

*LIST OF FIGURES*

*LIST OF APPENDICES*

# 1.0 INTRODUCTION

## 1.1 BACKGROUND

On behalf of Yankee Atomic Electric Company (YAEC), Environmental Resources Management (ERM) has prepared this Phase IV Final Inspection Report (Phase IV) for the Yankee Nuclear Power Station (YNPS) located at 49 Yankee Road in Rowe, Massachusetts (the "site") (Figure 1). This submittal has been prepared in accordance with the requirements of the Massachusetts Contingency Plan (MCP) 310 Code of Massachusetts Regulations (CMR) 40.0000 in response to the remediation of releases of oil and/or hazardous materials (OHM) to the environment. The site has been assigned Release Tracking Number (RTN) 1-13411. The Bureau of Waste Site Cleanup (BWSC) Comprehensive Response Action Transmittal Form (BWSC-108) is included in Appendix A. Public notification documentation is included in Appendix B.

YAEC initiated decommissioning of the YNPS in 1992. The historic layout of the former plant is depicted in Figure 2. Concurrent with plant decommissioning, YAEC completed numerous environmental sampling campaigns for both radiological and non-radiological parameters to support the management of contaminated materials and restoration of the site. These included the sampling of building surfaces and materials such as asphalt and concrete, in addition to environmental media including soil, soil gas, groundwater, surface water, sediments and fish. The management of radioactive materials and media was completed in accordance with the requirement of the U.S. Nuclear Regulatory Commission (NRC). The management of materials and/or media impacted by oil and/or hazardous materials (OHM) was completed in accordance with applicable regulatory programs of the Massachusetts Department of Environmental Protection (MA DEP) and/or the US Environmental Protection Agency (EPA).

All contaminated structures and media at the site have been remediated in accordance with applicable regulatory programs and the site was regraded and planted. The only site restoration activity remaining is the construction of an extension to a portion of a flood control berm to Sherman Dam, planned for the Spring 2007.

The assessment and remediation of environmental media contaminated by OHM at the site under the MCP was documented in the following reports:

- IRA Completion Report, February 2001 (ERM, 2001a)
- Release Abatement Measure (RAM) Completion Report, July 2005 (YAEC, 2005e))
- Phase I Initial Site Investigation Report, April 2001 (ERM 2001c)
- Phase II Comprehensive Site Assessment Report, April 2003 (ERM, 2003a)
- Phase II Comprehensive Site Assessment Report, January 2005 (update of April 2003 Phase II) (ERM, 2005a)
- Supplemental Phase II Comprehensive Site Assessment Report, September 2006 (ERM, 2006d)
- Addendum to Phase II Comprehensive Site Assessment, February 2007 (ERM, 2007a)
- Phase III Remedial Action Plan Report, April 2003 (ERM, 2003b)
- Phase IV Remedy Implementation Plan (Phase IV Plan), April 2004 (ERM, 2004a)
- Amended Phase III Remedial Action Plan/Phase IV Remedy Implementation Plan (Amended Phase IIII/IV Plan), June 2005 (ERM, 2005b)

In addition, the management of soil and sediment contaminated with polychlorinated biphenyls (PCBs) was regulated by the EPA under the requirements of the Toxic Substances Control Act (TSCA) and was documented in the following reports:

- TSCA Sediment Final Report, July 2006 (ERM, 2006c)
- TSCA Soil Final Report, 1 March 2007 (ERM, 2007c)

## 1.2 *PURPOSE & SCOPE*

The purpose of this Phase IV Report is to document the results of remedial activities conducted to abate OHM in site soil and sediment as outlined in the Phase IV Remedy Implementation Plan (RIP) and Addendum, appropriate modifications to the RIP, and affirm that response actions met

the project design standards. Phase IV remedial response actions included the excavation and/or dredging of contaminated soil and sediment. Closure sampling data collected from the limits of the excavation/removal areas are presented to verify compliance with target cleanup criteria. Management of remediation waste included on-site treatment and re-use and off-site disposal. Analytical results associated with performance standards for on-site thermal treatment and waste management can be found in the TSCA Final Sediment Report and the TSCA Final Soil Report, provided to the MA DEP under separate cover.

This Phase IV Report does not address response actions that were performed to address releases of plant-related radionuclides to the environment, as these actions are deemed adequately regulated by the NRC. The acceptability of this effort is documented in a series of final status survey reports that have been provided to both the NRC and the MA DEP.

## 1.3 *REPORT ORGANIZATION*

The remainder of this report is organized to satisfy the requirements of the MCP (310 CMR 40.0878) and contains the following sections:

- ***Section 2.0 - Remedial Objectives*** provides a description of the cleanup goals for each contaminant of concern at the site.
- ***Section 3.0 - Summary of Remedial Alternatives*** provides a description of the remedial activities conducted at the site, presents the closure sampling data, and documents how the wastes were managed.
- ***Section 4.0 - Final Inspection Statement*** documents the opinion of the Licensed Site Professional-of-Record (LSP) that the Phase IV activities were conducted in conformance with the requirements of the MCP.
- ***Section 5.0 - References***

## 2.0 *REMEDIAL AREAS AND OBJECTIVES*

### 2.1 *SUMMARY OF REMEDIAL AREAS*

Based on the results of site investigations, the Phase IV and Amended Phase III/IV Plans identified the following areas that required remediation:

- PCBs in sediment from the East Storm Drain and West Storm Drain Ditch
- PCBs in soil from a variety of areas in the Industrial Area (Study Areas 1 to 4) and the Southeast Construction Fill Area (SCFA Areas A to C)
- Dioxin in soil west of the Rad Waste Warehouse Complex (Dioxin Area)
- Petroleum in soil near the Fuel Oil Tank Area
- Lead in soil at the Old Shooting Range

As outlined in the Amended Phase III/IV Plan, the following areas were evaluated further to determine if remedial actions were warranted.

- Hillside Area West of Access Road (dioxin impacts) - Based on changes to the MCP Method 1 S-1/GW-1 standards, the dioxin impacts on the hillside were eliminated as an area of concern.
- Pavement Area South of Independent Spent Fuel Storage Installation (ISFSI) - Sampling confirmed the need to perform remedial activities to address lead impacts. This area is referenced as the South Yard Sand Blast Grit Area in this report.
- Roadway Northwest of Vapor Container - The roadway was removed and excavated up to 5 feet in depth in 2000 when it was reconstructed in support of the development of the ISFSI. The pavement was removed again in 2006 in order to access utility lines as part of the decommissioning program and the road was then repaved. Field observations and sampling for PCBs along the edge of Study Areas 1, 2, and 3 confirmed that no remediation was warranted below the

roadway itself.

- Visitor Center Parking Lot – Additional sampling activities were performed to confirm that remedial activities were not warranted, as documented in the Supplemental Phase II Report.
- Septic System Leachfield - Additional sampling activities were performed to confirm that remedial activities were not warranted, as documented in the Supplemental Phase II Report.
- Railroad Track Area - Additional sampling activities were performed to confirm that remedial activities were not warranted, as documented in the Supplemental Phase II Report.

During the course of remediation and decommissioning activities, additional areas were identified that warranted remediation. These areas included:

- PCBs in soil in Study Area 5 (the Amended Phase III/IV Plan referred to the SCFA as Area 5, however, for the purposes of this report, Study Area 5 refers to the wooded area located to the west of the Industrial Area), SCFA Area D, the Mid-Lot Debris Pile Area, and Painted Blocks along the Deerfield River

- Petroleum in soil in Bulldozer Spill Area, Drum in Woods, Firewater Pumphouse Drywell, Firewater Tank (Tank 55), Fuel Spill 164 Area, Furlon House Basement, Rad Waste Area, Railroad Ties Areas, and Turbine Building Office Area

- Lead in soil in the Peninsula Sand Blast Grit Area and the South Yard Sand Blast Grit Area

A summary of the identification of each area and the subsequent remedial activities is provided in Section 3.0. In addition, variances from the original volume estimates are discussed in Section 3.0.

A comprehensive risk characterization is being prepared to document that residual radioactivity and/or OHM remaining at the site meet applicable risk management criteria for protection of human health, safety, public welfare, and the environment.

## 2.2 *REMEDIAL OBJECTIVES*

### 2.2.1 *Response Action Performance Standards*

The purpose of this section is to present the remedial objectives established in the Phase IV Report (ERM, 2004a). Key MCP Response Action Performance Standards (RAPS) that must be met in order to achieve a Permanent Solution include:

- Elimination or control of each source of OHM which is resulting, or is likely to result, in an increase in concentrations of OHM in an environmental medium, either as a consequence of a direct discharge or through inter-media transfer (per 310 CMR 40.1003).
- Reduction in the concentration of OHM in affected media to levels that do not pose a condition of Significant Risk of harm to human health, safety, public welfare, and the environment (per 310 CMR 40.1003).
- Reduction in the concentration of OHM in affected media to levels that would exist in the absence of the site. Such measures shall, to the extent feasible, achieve or approach background levels of OHM in the environment as defined under 310 CMR 40.0006 (per 310 CMR 40.1020).
- Reduction in the overall mass and volume of OHM at the site to the extent feasible, regardless of whether it is feasible to achieve one or more Temporary or Permanent Solutions, or whether it is feasible to achieve background for the entire site (per 310 CMR 40.0191).

In addition to meeting the MCP performance standards, the development of the remedial action objectives also considered the need for compliance with TSCA (USEPA, 1990). The TSCA regulations (40 CFR 761.61) govern the remediation and management of PCB remediation waste (PCB-impacted soil and sediment). Compliance with TSCA required YAEC to obtain numerous approvals from EPA (YAEC, 2005a - 2005c) for management of PCB remediation waste. Other local, state, and federal regulatory requirements applicable to the development of remedial action objectives and achievement of RAPS are discussed where appropriate.

### 2.2.2 *PCBs*

*Sediment*

Under the MCP and TSCA, YAEC established a target cleanup goal for PCBs in sediment of one (1) milligram per kilogram (mg/kg). YAEC evaluated achievement of this goal for sediment by comparing to sample-specific maximum residual concentrations as well as the 95$^{th}$ Upper Concentration Limit of PCB concentration.

*Soil*

Under the MCP, YAEC established a target cleanup goal for PCBs in soil of one (1) mg/kg, based on comparing an arithmetic average concentrations remaining in soil within each remedial area to the cleanup goal.

For the purposes of TSCA, YAEC was required to compare the sample-specific maximum residual concentration and therefore, established a goal of one (1) mg/kg or less in some areas (High Occupancy Criteria) and 25 mg/kg or less in other areas (Low Occupancy Criteria). The selection of cleanup goals for each remedial area was based on the location of impacted soil at the site, the estimated volume of impacted soil requiring cleanup, and the feasibility of achievement of cleanup criteria based on evaluation of the benefit in reduction in risk verses cost of cleanup.

### 2.2.3 *Dioxin*

YAEC originally established a target cleanup goal for dioxin Total Equivalent Quantity (TEQ) in soil based on the May 2003 MCP Method 1 S-1/GW-1 Standard of four (4) nanograms per kilogram (ng/kg). The Method 1 S-1/GW-1 Standard changed to 20 ng/kg in April 2006. Therefore, the closure data for dioxin cleanup were compared to the current standard.

### 2.2.4 *Petroleum Hydrocarbons*

YAEC established target cleanup goals for petroleum and polynuclear aromatic hydrocarbons (PAHs) in soil based on the May 2003 MCP Method 1 S-1/GW-1 Standards. As with the dioxins, some of the Method 1 S-1/GW-1 Standards for PAHs changed in April 2006. The original and updated cleanup standards are listed below for the compounds of concern:

| Compound | 2003 Method 1 S-1/GW-1 Standard | 2006 Method 1 S-1/GW-1 Standard |
|---|---|---|
| *EPH* | | |
| C11-C22 Aromatics | 200 mg/kg | 200 mg/kg |
| C19-C36 Aliphatics | 2,500 mg/kg | 2,500 mg/kg |
| C9-C18 Aliphatics | 1,000 mg/kg | 1,000 mg/kg |
| *VPH* | | |
| C5-C8 Aliphatics | 100 mg/kg | 100 mg/kg |
| C9-C12 Aliphatics | 1,000 mg/kg | 1,000 mg/kg |
| C9-C10 Aromatics | 100 mg/kg | 100 mg/kg |
| benzo(a)anthracene | 0.7 mg/kg | 7 mg/kg |
| benzo(a)pyrene | 0.7 mg/kg | 2 mg/kg |
| benzo(b)fluoranthene | 0.7 mg/kg | 7 mg/kg |
| benzo(k)fluoranthene | 7 mg/kg | 70 mg/kg |
| chrysene | 7 mg/kg | 7 mg/kg |
| dibenzo(a,h)anthracene | 0.7 mg/kg | 0.7 mg/kg |
| ideno(1,2,3-cd)pyrene | 0.7 mg/kg | 7 mg/kg |

### 2.2.5 *Lead*

YAEC established a target cleanup goal for lead in soil based on MCP Method 1 S-1/GW-1 Standard of 300 mg/kg (the standard did not change between 2003 and 2006).

## 3.0 SUMMARY OF REMEDIAL ACTIVITIES

## 3.1 PERMITS/APPROVALS

A summary of the regulatory filings that were made in support of the Phase IV remedial activities is provided below:

| Regulatory Program | Filing/Permit/ Approval | Date of Filing(s) | Approval Number/Date | Permitting/ Approval Authority |
|---|---|---|---|---|
| Massachusetts Contingency Plan | Phase IV Remedy Implementation Plan | 23 April 2004 & 17 June 2005 | Not applicable | MA DEP |
| TSCA | Application for Risk-based Disposal Approval (sediment) | 30 June 2004 | 28 September 2004 | United States Environmental Protection Agency (EPA) |
| | Application for Self-Implementing Cleanup & Disposal (soil) | 4 April 2005, 6 May 2005, 8 June 2005, 20 July 2005 & 3 April 2006 | 23 June 2005 & 28 April 2005 | EPA |
| Wetlands Protection Act (WPA)/Rivers Protection Act | Order of Conditions | 7 May 2004 | 274-25 9 September 2004 | Rowe Conservation Commission and MA DEP |
| Clean Water Act - Section 401 | Water Quality Certification | 7 May 2004 | 274-25 9 September 2004 | MA DEP |
| Clean Water Act - Section 404 | Massachusetts Programmatic General Permit - Category 2 | 7 May 2004 | NAE-2004-1088 14 October 2004 | US Army Corps of Engineers |
| Public Water Front Act - Chapter 91 | Waterways Permit | 7 May 2004 | 8 September 2004 | MA DEP |
| National Pollution Discharge Elimination System (NPDES) | Permit Exclusion | 7 October 2004 | MA 04I-096 | EPA |

## 3.2 *PCB-IMPACTED SEDIMENTS*

### 3.2.1 *East Storm Drain Sediment Dredging*

Investigations conducted in accordance with the requirements of the MCP indicated that sediment required remediation in an area near the East Storm Drain outfall. PCBs were identified in sediment at concentrations in excess of 1 mg/kg over an area of 14,000 square feet to a depth of 1 foot. The depth to water in the remedial area ranged from 0 to 10 feet. PCBs had been detected in sediment in this area at concentrations up to 20 mg/kg.

Actions under the MCP resulted in the selection of the remedial alternative for PCBs in sediment, consisting of Excavation and/or Dredging, Off-Site Disposal and Restoration, including:

- obtaining necessary permits and approvals;
- excavating PCB-impacted sediment at greater than 1 mg/kg;
- collecting and analyzing sediment samples following removal actions in each area to verify compliance the 1 mg/kg remedial goal;
- managing and disposing of water, excavated sediment, and remedial waste; and
- demobilizing equipment and project work areas.

Remediation activities were conducted in November 2004 to remove PCB-impacted sediments from the work area in Sherman Reservoir. Prior to initiating remediation activities, sampling was conducted in September and October 2004 to confirm the limits of the removal activities, and a silt curtain was deployed to enclose the work area. The silt curtain's location was determined by a Global Positioning Survey (GPS) survey and a map indicating the placement of the curtain was provided to MA DEP and the Rowe Conservation Commission prior to dredging.

Fish within the work area were cleared using electrofishing on 23 October 2004, following placement of the silt curtain. The electrofishing was performed to clear the work area of fish, particularly potential longnose suckers, a designated Species of Special Concern by the Massachusetts Natural Heritage and Endangered Species Program. The type of fish collected and released included yellow perch, golden shiners, and fallfish. No longnose suckers were captured.

Sediments were removed by dredging between 9 and 20 November 2004 using an environmental bucket operated by Cable Arm. The environmental bucket is specifically designed to create a level cut, minimize sediment loss and resuspension during closure, and minimize the amount of water removed with the sediment. The environmental bucket was suspended from a crane that was based on the peninsula. A land-based crane was used instead of the planned barge-based excavator due to the relatively small area encompassed by the silt curtain in which to maneuver. As a result of using a land-based crane, the excavated sediments were loaded directly into a container located on the peninsula, rather than into scows or barges.

The dredging activities were conducted within 125 feet of the East Storm Drain Outfall. Dredge depths and locations were tracked with a GPS unit installed on the crane and pressure transducers on the environmental bucket. The dredge bucket footprints and the depth of sediment removal are shown in Figure 3.

Dredging proceeded from the silt curtain, inwards toward the peninsula. In this way, if any material dripped from the bucket as it was brought to shore, the subsequent dredging would remove the material from the reservoir. During dredging operations, many subsurface obstacles were encountered, including tree stumps, boulders, and logs. Multiple dredge attempts were made at locations where obstacles were encountered. Three attempts were made at each location to remove sediment from the reservoir bottom. After the third attempt, the bucket was moved to the next location.

The dredged sediments were deposited by the environmental bucket into a container located on the peninsula. The sediments were allowed to settle out of the water column within the container and the excess water was decanted and pumped into a storage tank on the peninsula for later treatment and discharge. The sediments were then transported by a water-tight dump truck to the sediment handling area.

Turbidity monitoring was performed three times per day during the dredging operations. The turbidity levels remained below the action level of 50 NTUs throughout the duration of the project.

A sediment dewatering pad and water treatment system were constructed at the site to manage and dewater the sediments generated during remediation activities. The sediment dewatering pad and sump were constructed by placing HDPE plastic on the ground, covering it with

geotextile fabric, and then placing approximately six inches of stone on top. An earthen and hay bale berm was installed around the pad and silt fence was installed on the downhill side of the work area.

Water generated by dewatering activities was treated on-site (in accordance with an NPDES Exclusion #MA 04I-096) by passing the water through a sand filter, bag filter and two carbon vessels. Approximately 18,000 gallons of water from the dewatering pad were treated and discharged to the Deerfield River. The treatment system was temporarily relocated to the peninsula and was used to treat 14,000 gallons of water stored on the peninsula. The discharges occurred in December 2004. Testing of the water was performed to confirm that the PCB concentrations were below the discharge limits established by the NPDES Exclusion. The system operated within the limits of the NPDES Exclusion.

A total of approximately 305 cubic yards of sediment were dredged from Sherman Reservoir as part of the remedial activities. The volume of sediment was less than the original estimate of 560 cubic yards due to the presence of boulders and logs, which limited the depth of removal in portions of the target remediation area.

After the completion of dredging, verification sediment sampling was performed between 20 and 23 November 2004 to determine if the remedial objectives had been achieved. Forty-seven sediment samples, including three duplicates, were collected from the area bounded by the silt curtain. Sample locations are shown in Figure 4. Laboratory results are summarized in Table 1. All laboratory reports are provided in Appendix C. With the exception of SD-626 and SD-631, PCBs were not detected at concentrations exceeding the 1 mg/kg remedial objective.

Based on discussions with EPA, a five-point composite sample (SD-750) and duplicate (SD-750D) were collected on 15 December 2004 from the area representative of SD-626 and SD-631. Analytical results indicated that the PCB concentrations in the samples were consistent with the remedial objective based on the 95% Upper Confidence Limit of Mean (UCLM). The calculated 95% UCLM was 0.5 mg/kg, with a maximum of 3.4 mg/kg and a mean of 0.36 mg/kg. YAEC received verbal agreement from EPA on 4 January 2005 that additional removal of sediment from Sherman Reservoir would not be required to meet the cleanup objective based on the supplemental results. Therefore, the remedial actions achieved the target cleanup goal.

### 3.2.2 *West Storm Drain Ditch Sediment Removal*

Investigations conducted in accordance with the requirements of the MCP indicated that sediment in the West Storm Drainage Ditch (WSDD) required remediation. PCBs had been detected in sediment in the WSDD at concentrations up to 9.2 mg/kg. Based on the initial characterization data, the remedial area was estimated to be 150 linear feet, representing approximately 20 cubic yards of sediment. However, after supplemental sampling was performed in support of the TSCA Risk-Based Disposal Application, it was determined that remediation was required along 500 linear feet of the WSDD and the excavation was wider and deeper in some areas than originally planned.

Remediation activities were initially conducted in the WSDD during October and November 2004 to remove PCB-impacted sediments. Prior to initiating excavation activities, shrubs, trees, and herbaceous vegetation were removed from the work area to facilitate excavation of PCB-impacted sediments. Stormwater entering the WSDD was diverted around the work area to allow sediments to dry and to facilitate sediment removal and handling. Temporary check dams constructed with hay bales and stone were also placed within the ditch as measures to avoid erosion and sedimentation. The number and location of the check dams within the ditch varied depending upon the status of the remediation activities being performed at that time. Additional erosion and siltation controls, including a line of hay bales placed perpendicular to the stream channel, were placed on the downstream end of the work area.

Sediments were removed using an excavator along the 500 feet of the ditch between the outfall pipes and a culvert below the access road to the Sherman Station Powerhouse. Sediments from the upper portion of the ditch (upstream portion of WSDD) were dry enough to be loaded directly into intermodal containers for off-site transportation and disposal. The remaining sediments were transported to the sediment handling and dewatering pad.

After the completion of excavation activities, 28 verification samples (SD-701 through -726 and two duplicates) were collected in October and November 2004 from the WSDD. Two samples, SD-703 and SD-704, exceeded the remedial objective and required additional excavation and resampling. Additional verification samples (SD-703R and SD-704R) for both locations were below the remedial objective (Table 2 and Figure 5).

On 6 December 2004, analytical results were received from the laboratory to confirm that the target cleanup goal in the WSDD was achieved. Since the remedial activities extended beyond the planting season, all restoration/replication work, including earthwork and plantings, was delayed until 2005.

During the 2005 construction season leading up to the planting and restoration of the WSDD, stormwater was routinely discharged through the west storm drain system. In order to determine if PCB deposition might have occurred, six sediment samples (SE-WSD001 through SE-WSD006) were collected on 29 September 2005 from behind check dams that had been left in the WSDD for stabilization purposes. Sample SE-WSD001 was most downstream at the western end of the ditch and sample SE-WSD006 was most upstream just below the outfall of the twin pipes emerging from the embankment below the gatehouse.

Laboratory testing showed PCBs as less than 1 mg/kg in all samples with the exception of SE-WSD005 and -006 (the two most upstream samples, 1.179 and 1.398 mg/kg, respectively). Based on these results, Yankee excavated additional material from the upper half of the ditch in October 2005 (approximately 260 linear feet). Following this, Yankee collected 14 grab samples on 6 October 2005 every 20 feet from the base of the ditch (samples SD-727 through -739) including two duplicates.

Of these samples, only SD-730 was reported as greater than 1 mg/kg for PCBs (1.384 mg/kg). Yankee then excavated additional sediment from the portion of the ditch represented by this sample and re-sampled on 12 October 2005 (SD-730R). The result of this re-testing was below detection limits. Therefore, the remedial actions achieved the target cleanup goal.

The volume of sediment excavated from the WSDD increased significantly from the original estimate of 20 cubic yards. Based on additional pre-remedial characterization data and the results of confirmatory sampling, a total of 365 cubic yards of sediment were excavated from the WSDD in 2004 and 2005.

## 3.3 PCB-IMPACTED SOILS

### 3.3.1 Overview

As part of the remedial program, the Industrial Area of the site was divided into five study areas (Study Areas 1 through 5) and the SCFA was divided into four areas (SCFA Areas A through D), as shown in Figure 2. Soil excavation work was conducted using a backhoe or front-end loader in most areas. Manual excavation and/or vactor trucks were used to remove impacted soils in some areas that had limited accessibility due to the location or terrain (such as Study Areas 2 and 5). Many of the excavations were shallow (less than two feet deep). However, the excavations extended up to 23 feet deep in areas such as the SCFA. Descriptions of removal activities conducted in each area and compliance with cleanup objectives are summarized in the following sections.

### 3.3.2 Industrial Area

*Study Area 1*

Excavation and sampling was performed in Study Area 1 from June to November 2005. A total of 8,030 cubic yards of soil were excavated and 145 verification samples were collected from Study Area 1, which exceeded the original estimate of 1,925 cubic yards due to the fact that the extent of impacts were more widespread and deeper in some areas than originally estimated. Excavation boundaries, verification sample locations and results are presented on Figure 6 and summarized in Table 3. The maximum residual concentration of PCBs in Study Area 1 was 3.1 mg/kg and the average residual PCB concentration was less than 1 mg/kg. Therefore, the remedial actions achieved the target cleanup goal.

Floor samples for PCBs were not collected in the vicinity of the former Spent Fuel Pool because this area was excavated to a depth of more than 20 feet to address radiological impacts. Since this area was not excavated for PCBs and was excavated to depths below the observed historic PCB impacts, PCB verification samples were not collected. This expanded remedial area is indicated on Figure 6 as the "Spent Fuel Pool."

*Study Area 2*

Excavation and sampling was performed in Study Area 2 from October 2005 to April 2006. Originally, the remedial goal under TSCA for Study

Area 2 was to have a maximum PCB concentration of 1 mg/kg. Based on this goal, the estimated volume of soil excavated was 1,481 cubic yards. After further evaluation of the nature and extent of impacts, YAEC obtained approval from EPA to adjust the TSCA remedial goal to a maximum of 25 mg/kg. Based on the revised TSCA goal, a total of 200 cubic yards of soil were excavated and 23 verification samples were collected from Study Area 2. Excavation boundaries, verification sample locations and results are presented on Figure 7 and summarized in Table 4. The maximum residual concentration of PCBs in Study Area 2 was 3.7 mg/kg and the average residual PCB concentration was less than 1 mg/kg. Therefore, the remedial actions achieved the target cleanup goal.

*Study Area 3*

Excavation and sampling was performed in Study Area 3 from July to December 2005. A total of 1,060 cubic yards of soil were excavated and 99 verification samples were collected from Study Area 3. The extent of impact in Study Area 1 was more than originally estimated (400 cubic yards), primarily due to the fact that the extent of impacts were more widespread and deeper in some areas than originally estimated. Excavation boundaries, verification sample locations and results are presented on Figure 8 and summarized in Table 5. The maximum residual concentration of PCBs in Study Area 3 was 3.0 mg/kg and the average residual PCB concentration was less than 1 mg/kg. Therefore, the remedial actions achieved the target cleanup goal.

*Study Area 4*

Excavation and sampling was performed in Study Area 4 from June to December 2005. A total of 890 cubic yards of soil classified as a PCB remediation waste were excavated and 70 verification samples were collected from Study Area 4. The volume of soil was consistent with the original estimate (1,193 cubic yards). Excavation boundaries, verification sample locations and results are presented on Figure 9 and summarized in Table 6. The maximum residual concentration of PCBs in Study Area 4 was 3.5 mg/kg and the average residual PCB concentration was less than 1 mg/kg. Therefore, the remedial actions achieved the target cleanup goal.

*Study Area 5*

Study Area 5 was not identified in the Phase IV or Amended Phase III/IV Plans as a target remedial area. Based on discussions with EPA, YAEC removed isolated areas with PCB concentrations greater than 1 mg/kg from within Study Area 5. Excavation and sampling was performed in Study Area 5 in November 2005. A total of 3 cubic yards of soil were excavated and four verification samples were collected from Study Area 5. Excavation boundaries, verification sample locations and results are presented on Figure 10 and summarized in Table 7. The maximum residual concentration of PCBs in Study Area 5 was 0.7 mg/kg. Therefore, the remedial actions achieved the target cleanup goal.

### 3.3.3 *SCFA*

*Overview*

The SCFA originally consisted of 1.2 acres of native fill and a small fraction of C&D fill material (i.e., concrete, asphalt, wood and metal debris). The Historic Fill area of the SCFA was characterized during several sampling rounds to determine whether C&D waste was present and to focus removal activities. In August 2004, soil borings were advanced through the SCFA to provide characterization data and from November 2004 through January 2005 additional borings were advanced to further delineate the extent of materials within the SCFA. Based on the initial characterization, three areas of PCB impact were identified. These areas (SCFA Areas A through C) were originally targeted, with a fourth, SCFA Area D, being added after the discovery of PCB impacts at the limits of the excavation at the Old Shooting Range.

During the course of pre-remedial characterization and closure sampling, YAEC determined that the extent of PCB impacts in the SCFA were more widespread than originally estimated. Based on the initial sampling data, YAEC estimated that 3,100 cubic yards of soil in the SCFA required remediation. However, the final excavation volume from the SCFA was 13,050 cubic yards. Excavation activities in the individual areas are summarized below.

*SCFA Area A*

Excavation and sampling was performed in SCFA Area A from July to August 2005. A total of 600 cubic yards of soil were excavated and 22 verification samples were collected from SCFA Area A. Excavation

boundaries, verification sample locations and results are presented on Figure 11 and summarized in Table 8. The maximum residual concentration of PCBs in SCFA Area A was 0.8 mg/kg. Therefore, the remedial actions achieved the target cleanup goal.

*SCFA Area B*

Excavation and sampling was performed in SCFA Area B from August to October 2005. A total of 4,800 cubic yards of soil were excavated and 16 verification samples were collected from SCFA Area B. Excavation boundaries, verification sample locations and results are presented on Figure 11 and summarized in Table 8. The maximum residual concentration of PCBs in SCFA Area B was 0.8 mg/kg. Therefore, the remedial actions achieved the target cleanup goal.

*SCFA Area C*

Excavation and sampling was performed in SCFA Area C from August 2005 to April 2006. A total of 7,150 cubic yards of soil were excavated and 163 verification samples were collected from SCFA Area C. Excavation boundaries, verification sample locations and results are presented on Figure 12 and summarized in Table 8. The residual concentration of PCBs in SCFA Area C was 6.5 g/kg and the average residual PCB concentration was less than 1 mg/kg. Therefore, the remedial actions achieved the target cleanup goal.

*SCFA Area D*

Excavation and sampling was performed in SCFA Area D from July 2005 to May 2006. This area was identified during the course of remedial activities in the Old Shooting Range (see Section 3.6), when a sample of the excavated soil was found to contain PCBs greater than 1 mg/kg. A total of 500 cubic yards of soil were excavated and 62 verification samples were collected from SCFA Area D. Excavation boundaries, verification sample locations and results are presented on Figure 12 and summarized in Table 8. The maximum residual concentration of PCBs in SCFA Area D was 4.0 mg/kg and the average residual PCB concentration was less than 1 mg/kg. Therefore, the remedial actions achieved the target cleanup goal.

*SCFA Final Grade*

Following the final remediation of the SCFA, a total of 13 verification samples were collected across the surface of the SCFA on 14 August 2006 and 18 August 2006. Samples were collected prior to the establishment of the final grade to verify that PCBs had not migrated from the remedial areas during the excavation and transport of soils containing PCBs. The maximum residual concentration was 0.69 mg/kg. Therefore, the remedial actions achieved the target cleanup goal.

### 3.3.4 *Mid-Lot West Debris Pile Area*

During May 2006, a pile of miscellaneous construction debris was observed at the westerly end of the mid-lot parking area. Upon inspection of the pile a few painted concrete blocks were noted, including one block with multiple layers of thick paint. Sampling of painted blocks from a debris pile indicated the presence of PCB-containing paint. Based on this characterization data, a campaign was initiated to remove C&D material. Approximately 135 cubic yards of soil material was excavated and in May 2006, four soil samples were collected from the limits of the disturbed area. The samples results are presented in Table 9 and the sample locations are presented in Figure 13. All results were below the PCB clean-up goal of 1 mg/kg. Therefore, the remedial actions achieved the target cleanup goal.

### 3.3.4 *Painted Concrete Blocks along Deerfield River*

During the latter part of the 2004 construction season, YAEC personnel identified several painted concrete blocks in an area to the west of the lower lot, adjacent to the Deerfield River. Composite samples collected to provide initial characterization of the blocks, revealed that the paint contained PCBs. Based on those findings, a plan was developed to remove the painted blocks from the area as well as any impacted soils.

Removal of concrete blocks with PCB-containing paint along the Deerfield River was conducted in November 2005 and August 2006. After removal of the painted blocks and shallow underlying soils, seven closure samples were collected. The post-removal closure sample results are presented in Table 10 and the sample locations are presented in Figure 13. All results were below the PCB clean-up goal of 1 mg/kg. Therefore, the remedial actions achieved the target cleanup goal.

## 3.4 *DIOXIN-IMPACTED SOILS*

An area with dioxin impacts to soil was discovered during the site characterization activities. Sampling indicated that dioxins were present above the cleanup goals. The detection of dioxin was believed to be associated with operation of former incinerators at the YNPS.

In September 2005, approximately 300 cubic yards of soil were excavated to a depth of one-foot below ground surface (bgs) within the Industrial Area. Five confirmatory samples were collected from the limits of the excavation. The sample results are presented in Table 11 and the sample locations are presented in Figure 14. All results were below the Method 1 S-1 / GW-1 Standard of 20 ng/kg. Therefore, the remedial actions achieved the target cleanup goal.

## 3.5 *PETROLEUM-IMPACTED SOILS*

The following provides a summary of the remediation activities conducted to address petroleum releases to soil:

- Bulldozer Spill Area - On 27 June 2006, approximate five gallons of hydraulic fluid was released when a hydraulic seal broke on a bulldozer. Approximately 9 cubic yards of soil were excavated from an area six feet wide by two feet deep and shipped off-site for disposal. The limit of excavation was inspected and one composite sample (CAT-B6-SPILL) was collected for EPH. The sample results are presented in Table 12 and the sample locations are presented in Figure 14. All results were below the 2006 Method 1 S-1/GW-1 Standards. Therefore, the remedial actions achieved the target cleanup goals.

- Drum in Woods - An abandoned 55-gallon drum was discovered in the woods southwest of the Industrial Area and off the edge of the transmission right-of-way during site walk-down activities. The drum was removed and a limited amount of soil removal activities were conducted in 2004. A VPH sample collected in November 2004 detected C9-C10 aromatics above the cleanup goals. In 2005, less than 1 cubic yard of soil was manually excavated from the area and sampling was performed at the limits

of the excavation to evaluate potential residual impacts. The sample results are presented in Table 13 and the sample locations are presented in Figure 13. All results were the 2006 Method 1 S-1/GW-1 Standards. Therefore, the remedial actions achieved the target cleanup goals.

- Firewater Pumphouse Drywell Area - A drywell associated with the firewater pumphouse was investigated in compliance with Underground Injection Control (UIC) program requirements. Approximately 25 cubic yards of soil were excavated in September 2005 and April 2006. Groundwater was not encountered at the bottom of the excavation. PID readings from the perimeter and bottom of the excavation were non-detect, with the exception of a single reading of 2.2 mg/kg. No odor or stains were noted.

  Five samples were collected from the limits of the excavation. The sample results are presented in Table 14 and the sample locations are presented in Figure 14. All results were below the 2006 Method 1 S-1/GW-1 Standards. Therefore, the remedial actions achieved the target cleanup goal. A UIC closure report was produced and provided to the MA DEP on 1 June 2006 (YAEC, 2006)).

- Firewater Tank (Tank 55) Area - During the decommissioning of the Firewater Tank, petroleum impacts were observed beneath the tank and approximately 220 cubic yards of soil were excavated and treated on-site in the thermal desorption unit. Seven soil samples (TK-55-004 through -010) were collected in September 2005 at the limits of the excavation. The results at two of the locations (TK-55-007 and TK-55-008) exceeded the target cleanup goals for EPH. In November 2005, approximately 55 cubic yards of additional impacted material were excavated and shipped off-site. Three confirmatory soil samples (TK-55-010 through -013) were collected at the limits of the excavation. The sample results are presented in Table 15 and the sample locations are presented in Figure 14. All final closure results were below the 2006 Method 1 S-1/GW-1 Standards. Therefore, the remedial actions achieved the target cleanup goals. Therefore, no further action is planned.

- Fuel Oil Tank Area - Petroleum was detected in the area of a former aboveground fuel oil storage tank berm during sampling in October 2004. Field investigations were completed in August 2005 at which time the fuel berm area was excavated to approximately 20 feet below ground surface (bgs). During the excavation, strong

petroleum odors were noted and PID screening levels were recorded as high as 257 parts per million (ppm) for jar headspace readings and 500 ppm for ambient readings at the floor of the excavation area. Approximately 180 cubic yards of petroleum-impacted soil were removed from the area beneath the former fuel oil Aboveground Storage Tank (AST), which was consistent with the original estimate of 150 cubic yards. The source of petroleum impact was not identified, but suspected to be incidental releases associated with tank re-fueling. Soil impacts consisted of weathered petroleum, limited to sand lenses below the former AST. The vertical extent of impact appeared to be limited to soil above the water table based on the presence of dense till underlying the impacted sand lenses. No separate phase petroleum or petroleum-saturated soil was encountered. Five soil samples (EX-201 through EX-205) were collected from the excavation area and submitted for laboratory analysis of EPH and volatile petroleum hydrocarbons (VPH). The sample results are presented in Table 16 and the sample locations are presented in Figure 14. $C_{11}$ - $C_{22}$ aromatics were detected in two of the soil samples above cleanup goal (samples EX-202 and EX-203). However, the average concentration was below the cleanup goal.

The fuel line between the AST and fuel pump house was removed and one soil sample (EX-206) was collected for EPH and VPH. Sample results were below the cleanup goal. Soil removed from the fuel oil line had petroleum odors and PID readings from 0 to 7 ppm. The fuel oil pump house structure (oil stained floor slab), piping and surrounding soils (approximately 56 cubic yards) were direct loaded into a roll-off container. Based on the absence of any visual observations of impact, closure samples were not collected from this area.

The fuel oil line and underlying soil was removed and a soil sample (EX-207) was collected and submitted for analysis of EPH and VPH. Sample results were below the cleanup goal. During excavation activities, a release of less than 10 gallons of fuel oil occurred from the fuel line. The area impacted by this release was approximately 4 feet wide, 10 feet long, and 2 to 3 feet deep. Field screening of the contaminated soils with a PID ranged from 43 to 212 ppm. After removal of approximately five cubic yards of impacted soil, two samples (EX-208 and EX-209) were collected and analyzed for EPH and VPH. All results were below the target cleanup goals. The

excavated material (less than 5 cubic yards) was managed and shipped off-site.

An area of gray staining was observed in proximity to the former fuel oil line. Ambient PID readings were as high as 80 ppm. Approximately 1 cubic yard of stained soils was excavated, and sample SB-553-A was collected and analyzed for EPH and VPH. $C_{11}$ - $C_{22}$ aromatics were detected above the cleanup goal, however, the average concentration of all the samples from that area was below the cleanup goal. Therefore, no further action is planned.

- Fuel Spill 164 Area - During Spring 2005, a small petroleum spill was observed to the north of the former Turbine Building. Approximately 2 cubic yards of soil were excavated in February 2006 and a closure sample (EX-164) was collected for VPH. An additional sample was collected for EPH (EX-164A) in March 2006. The sample results are presented in Table 17 and the sample locations are presented in Figure 14. All results were below the 2006 Method 1 S-1/GW-1 Standards. Therefore, the remedial actions achieved the target cleanup goals.

- Furlon House Basement - A release of a small quantity of fuel oil (less than 10 gallons) occurred during the removal of a household fuel oil tank (above ground in the basement) in April 2006. While limited hand remediation was attempted within the basement, remediation was initiated following building demolition in July 2006 for petroleum-impacted soil from the Furlon House basement. The excavation was conducted in an approximately 15 foot by 15 foot area to a depth of 1 to 2 feet below ground surface in the northern corner of the basement. Approximately 15 cubic yards of suspected petroleum-impacted soil were excavated and stockpiled on polyethylene. The excavation was conducted until the absence of olfactory and photo-ionization detector (PID) screening indications of a release. Four verification grab samples (FLH-01, FLH-02, FLH-03, and FLH-04) were collected from two depth intervals (0-3 inches and 1-2 feet) and analyzed for Volatile Petroleum Hydrocarbons (VPH) and EPH.

  Additional soil excavation activities were conducted in July 2006 outside the Furlon House foundation wall. The excavation was conducted in an approximate 5 foot wide trench down to 8 feet below ground surface along the foundation wall. Approximately 25 cubic yards of suspected petroleum-impacted soil were

excavated and stockpiled on polyethylene. The excavation was conducted until the absence of olfactory and PID screening indications of a release. Three verification grab samples (FLH-05, FLH-06, and FLH-07) were collected from two depth intervals (0-3 inches and 1-2 feet) and analyzed for VPH and EPH.

The samples results are presented in Table 18 and the sample locations are presented in Figure 13. All results were below the 2006 Method 1 S-1/GW-1 Standards. Therefore, the remedial actions achieved the target cleanup goals.

- Rad Waste Area - During PCB excavation activities near the former Radiological Waste Complex, field screening indicated the presence of volatiles at sample location EX-3-057. An area of gray soil was observed and a sample (RW-D-001) was collected for analysis of EPH, VPH, VOCs and SVOCs. The sample results are presented in Table 19 and the sample locations are presented in Figure 14. Although the sample results were below the cleanup goals, the stained soils were excavated on 14 November 2005 from an area 4 foot by 4 foot by 2 to 3 feet deep. A small lens of a dark gray silty soil that had a mild organic odor (non-chemical) was observed. Photoionization detector (PID) readings ranged from 0.6 to 1.6 ppm. Approximately one-half cubic yard of impacted soil was removed and shipped off-site. The remaining material was used as backfill. Based of field observations, it was determined that the impact had been removed and therefore, no additional sampling was performed and no further action is planned.

- Railroad Ties Area – During trenching for the removal of conduits and PCB excavation activities, historic railroad lines used during plant construction and initial operation were encountered. The following excavation and sampling activities were conducted:

  - On 30 June 2005, railroad ties, associated rails, and less than 1 cubic yard of visually impacted soil were removed from the north side of the former Service Building and closure sample EX-RR001 was collected for SVOCs.

  - On 8 July 2005, railroad ties and associated rails were excavated from an area northeast of the former Service Building Annex and closure sample EX-RR002 was collected for SVOCs.

- On 13 September 2005, railroad ties were excavated from an area south of the former Service Building and closure samples EX-RR003 through EX-RR007 were collected for SVOCs.

  The sample results are presented in Table 20 and the sample locations are presented in Figure 14. Benzo(a)pyrene was detected above the cleanup goal in two samples (EX-RR-0003 FD001 and EX-RR-0004). However, the average concentration of benzo(a)pyrene is below the 2006 Method 1 S-1/GW-1 Standards. Therefore, the remedial actions achieved the target cleanup goal

- Turbine Building Office Area - During excavation activities associated with the Sherman Dam extension in August 2006, a gray soil with petroleum odors was observed. Field observations and screening indicated possible petroleum impacts. Approximately 265 cubic yards of soil were excavated and shipped off-site for disposal. Ten samples (TBO-EX-001 through TBO-EX-010) were collected from the limits of the excavation. The sample results are presented in Table 21 and the sample locations are presented in Figure 14. All closure results were below the method detection limits for EPH. Therefore, the remedial actions achieved the target cleanup goals.

A release of an estimated 50 gallons of diesel fuel occurred at the site in September 2006, but has been addressed under a separate Release Tracking Number (RTN 1-16338). The release occurred when a fuel tank valve broke on a dump truck that was hauling backfill at YNPS. The majority of the release occurred within the footprint of the Industrial Area, but also along the roadway crossing Sherman Dam, terminating off YAEC property. Response actions were described in a Response Action Outcome Statement provided under separate cover (ERM, 2006a).

## 3.6 *LEAD-IMPACTED SOILS*

A summary of the remediation activities conducted to address lead releases to soil is provided below:

- Old Shooting Range - Originally used for security practice and then shut down due to its proximity to the original potable water well, this area was remediated in October 1997 under a Limited

Removal Action. Additional sampling within the western portion of the SCFA in October 2003 indicated the presence of lead above cleanup goals. The characterization data suggested that the impacts were limited to discrete areas at the Old Shooting Range. Based on that assumption, an estimated volume of 10 cubic yards was developed for the Amended Phase III/IV Plan. However, based on sampling data and field observations, a total of 80 cubic yards of soil were removed during two rounds of soil excavation in July 2005. A total of 11 composite samples were collected and analyzed for lead during the course of remediation. The samples results are presented in Table 22 and the sample locations are presented in Figure 14. All final lead results were below the target cleanup goal. However, PCBs were detected in a sample of the stockpiled soil; therefore, further remedial actions were performed to address the PCB impacts, in what became known as SCFA Area D (see Section 3.3.2).

- Peninsula Sand Blast Grit Area - During the excavation of utilities on the peninsula during fall of 2005, sand blast grit was observed and found to contain lead. Excavation activities were conducted in November 2005, but following receipt of initial analytical results and due to the approaching winter season, further excavation activities were suspended until June and July 2006. Approximately 430 cubic yards of soil were removed with confirmatory samples being collected at 117 locations. Samples results are presented in Table 23 and the sample locations are presented in Figure 14. Residual concentrations of lead were below the Method 1 S-1/GW-1 Standard for lead of 300 mg/kg. Therefore, the remedial actions achieved the target cleanup goal

- South Yard Sand Blast Grit Area - During removal of the south road, sand blast grit was observed adjacent to the Firewater Tank (TK-55) and sampled for metals and PCBs. Analytical results for the sand blast grit indicated that lead and cadmium exceeded the cleanup goal while PCBs were below the clean-up goal of 1 mg/kg. Exploratory test pits were excavated to determine approximate limits of the impact area. During removal activities, petroleum impacts were also observed and EPH was detected above the cleanup goals in one area. In July 2006, approximately 180 cubic yards of material were excavated and shipped off-site and 42 samples were collected from the limits of the excavation. The sample results are presented in Table 24 and the sample locations are presented in Figure 14. All closure results were below the

Method 1 S-1/GW-1 Standards for lead and EPH. Therefore, the remedial actions achieved the target cleanup goals.

Two Limited Removal Actions were conducted to address lead impacts prior to the discovery of PCB impacts in 2000. Following the closure of the Old Shooting Range, a New Shooting Range was established on-site. This area was remediated in conjunction with the Old Shooting Range in October 1997 under a Limited Removal Action. An area of elevated lead concentrations was also identified within the SCFA during the investigation of buried metallic objects. The material, believed to be spent sand-blast grit, was remediated in 1998 as a Limited Removal Action.

## 3.7 *SUMMARY OF REMEDIAL VOLUMES*

The original and final volume estimates for each remedial area are summarized in Table 25. As shown, a total of 670 cubic yards of sediment were dredged/excavated and 25,220 cubic yards of soil were excavated as part of the remedial program. Approximately 40% more soil was excavated during the remedial program than originally estimated because the extent of PCBs was more than originally estimated in the Industrial Area and in the SCFA. In addition, YAEC elected to over-excavate impacts in some areas to increase the certainty that the target cleanup goals would be achieved.

## 3.8 *WASTE MANAGEMENT*

During remedial activities, excavated sediment and soils were either stockpiled in waste management areas prior to on-site thermal treatment or off-site shipment, or loaded directly into transport vehicles. The following sections describe the two waste management approaches used during the remedial activities.

### 3.8.1 *Soil and Sediment Treatment*

Approximately 130 tons (100 cubic yards) of sediment and 15,950 tons (12,270 cubic yards) of soil were treated on-site by the Maxymillian Technologies' Indirect Thermal Desorption (IDS) System, which is an indirectly-heated thermal desorption system designed to treat soils

contaminated with a range of compounds, including PCBs. Originally, YAEC only intended to treat the soils with the IDS system. However, after obtaining approval from EPA, a portion of the sediments were treated on-site. The sediment and soils were treated on-site between June and October 2005.

The feed material and treated material were sampled for PCBs. When the IDS was operating, grab samples were collected every hour from the conveyor belt prior to entering the IDS and after passing through the IDS. At the end of each shift, the grab samples collected during the prior shift were composited and submitted for laboratory analysis of PCBs (one composite for the feed soils and one composite for the treated soils).

Oversize materials that did not pass the feed screen were treated as follows:

- Oversize materials were cleaned through a series of vibratory shakers/screens until soil material was removed from the surface of the material;
- Oversize materials were placed in 50 cubic yard piles; and
- At least two wipe samples were collected from each stockpile to confirm the PCB concentration was less than 10 micrograms per 100 square centimeters (ug/100 $cm^2$).

Performance sampling for the IDS system were provided in the TSCA Soil Final Report (ERM, 2007c).

Approximately 3,500 tons of oversize materials were reused on-site as fill. Figure 15 presents the areas of the site where treated soils were used as fill.

### 3.8.2 *Waste Disposal*

Approximately 750 tons (570 cubic yards) of sediment and 16,840 tons (12,950 cubic yards) of soil were transported off-site for disposal as remediation waste. The actual quantity of materials disposed off-site (34,755 tons) was significantly greater than the above quantities because the soils were co-mingled with other waste materials that fit the same waste disposal profile. Therefore, it was common for multiple waste streams to be combined to provide for a full volume of waste being shipped. In addition, six roll-off containers would make up a complete

replacement area has been successful at meeting the Performance Standards outlined in 310 CMR 10.55(4)(b). During monitoring in 2006, it was determined that the most abundant species in the ground layer was the non-indigenous Midwestern tick-seed sunflower. Therefore, YAEC plans to conduct a survey of the WSDD in spring or early summer to determine if Midwestern tick-seed sunflower is indeed present within the replacement area. If Midwestern tick-seed sunflower is found within the WSDD wetland replacement area, it will be removed and disposed of in a manner approved by the Rowe Conservation Commission and the MA DEP.

### 3.9.2 *Industrial Area*

The Industrial Area was regraded and planted following the completion of demolition activities and only minor grading activities remain adjacent to the Sherman Dam extension project. The regrading provided a minimum of 36 inches of soil cover above any foundations or utility lines that were left in-place. Portions of the Industrial Area may be mowed at the discretion of YAEC to prevent woody vegetation from attaining heights that would interfere with security sight distance and for the power line right-of-way. Other areas will be allowed to undergo natural succession.

In accordance with the YAEC, "Post-Decommissioning Planting Plan and Specifications" (Kleinschmidt, 2006b), at least 80% of the containerized plantings are expected to survive the first growing season. Replacement plantings (utilizing only native species that are the same or comparable to the original planting list) will be installed as needed, to address plant mortality exceeding the 20% level.

### 3.9.3 *SCFA*

The clean, native materials removed from the SCFA area during excavation were re-utilized in the SCFA for filling voids and for grading. The backfilled areas were graded to stabilize working slopes in preparation for final grading. To complete the regrading of the SCFA, topsoil was spread over the disturbed areas to an average depth of approximately 6 inches to establish a medium for vegetation growth. Along the southern slope of the SCFA adjacent to the Wheeler Brook Divertment, organic soils were utilized to augment native topsoils. This provided the necessary medium for vegetation growth within the area to be planted with woody vegetation. The area will be allowed to naturally revegetate and will not be mowed.

The settlement of the SCFA will be monitored after closure so that low areas on the final grade surface can be filled and approved grades maintained. If the top of the landfill decreases to less than a 2% grade due to settlement, then additional cover material shall be placed on the landfill to reestablish the approved slope. Any erosion areas discovered during the quarterly inspection will be repaired in a timely fashion as required to ensure that the integrity of the final grade is not compromised and impact to adjacent wetland resources does not occur.

In accordance with the YAEC, "Post-Decommissioning Planting Plan and Specifications" (Kleinschmidt, 2006b), at least 80% of the containerized plantings are expected to survive the first growing season. Replacement plantings (utilizing only native species that are the same or comparable to the original planting list) will be installed as needed, to address plant mortality exceeding the 20% level. The only management efforts for plants and vegetation in the SCFA will be replacement of dead plantings, as necessary.

## 4.0 *FINAL INSPECTION STATEMENT*

Pursuant to the 310 CMR 40.0878, John W. McTigue, the LSP-of-Record for the Site, performed the inspections of the remedial activities periodically during their implementation and conducted a final inspection after all remedial activities were completed. The LSP inspections consisted of an examination of excavation areas, dredging activities, soil/sediment processing, stockpiling and on-site treatment activities.

In the opinion of the LSP, the remediation was implemented in accordance with the Phase IV Remedy Implementation Plan (and Addendum) and the federal and state permits. As a result of Comprehensive Remedial Actions, the remediation goals have been met.

YAEC is in the process of finalizing deed restrictions and notifications that will be submitted for activities performed at the site. These will be provided to the Franklin County Registry of Deeds in accordance with applicable regulations. Three deed restrictions and notifications will be required for the site. Two are required by the MA DEP under 310 CMR 19.141 of the Solid Waste Regulations (one to address the closure of the SCFA and one to address the reuse of concrete under the Beneficial Use Determination) and a third by the EPA under 310 CMR 761.61 of the TSCA regulations. Copies of the deed restrictions and notifications will be provided to the DEP under separate cover.

YAEC is in the process of preparing a risk assessment for the site to confirm that no additional remedial activities are warranted at the site. YAEC intends to perform Phase V monitoring activities to evaluate the effectiveness of the remedial actions and to monitor for natural attenuation of other impacts to groundwater including any OHM that remain above Massachusetts Maximum Contaminant Levels (MMCLs) for drinking water and selected radionuclides, including tritium. Additional groundwater and surface water monitoring will be conducted to support closure of the SCFA under the Massachusetts Solid Waste Program (MA DEP File Number 253-008). Monitoring of the wetland restoration area is planned for at least two years to evaluate if the WSDD wetland replacement area has been successful at meeting the Performance Standards outlined in 310 CMR 10.55(4)(b).

## 5.0 *REFERENCES*


ERM, 2001a, "Immediate Response Action Completion Report," Letter to MA DEP, 22 February 2001.

ERM, 2001b, "Release Abatement Measure Plan," Letter to MA DEP, 13 March 2001.

ERM, 2001c, "Phase I Report and Tier II Classification Submittal," Report to MA DEP (Mr. A. Kurpaska), 25 April 2001.

ERM, 2001d, "Release Abatement Measure Status Report No. 1," Letter to MA DEP (Mr. A. Kurpaska), 19 July 2001.

ERM, 2003a, "Phase II Comprehensive Site Assessment," April 2003.

ERM, 2003b, "Phase III - Remedial Action Plan," April 2003.

ERM, 2004a, "Phase IV - Remedy Implementation Plan," April 2004.

ERM, 2004b, "Application for Beneficial Use Determination - Southeast Construction Fill Area," 4 November 2004.

ERM, 2005a, "Phase II Comprehensive Site Assessment," January 2005.

ERM, 2005b, "Am ended Phase III - Remedial Action Plan/Phase IV - Remedy Implementation Plan," 17 June 2005.

ERM, 2006a, "Response Action Outcome Statement, RTN # 1-16338", 10 November 2006.

ERM, 2006b, "Release Abatement Measure (RAM), Amendment," 6 December 2006.

ERM, 2006c, "TSCA Sediment Final Report," 24 July 2006.

ERM, 2006d, "Supplemental Phase II Comprehensive Site Assessment Report," 21 September 2006.

ERM, 2007a, "Addendum to Phase II Comprehensive Site Assessment, February 2007 (updates analytical data and responds to DEP

comments to January 2005 Phase II submittal)," 6 February 2007.

ERM 2007b, "Southeast Construction Fill Area - Landfill Closure Completion Report", 19 February, 2007.

ERM, 2007c, "TSCA Soil Final Report," 1 March 2007.

Kleinschmidt, 2006a, "Post-Decommissioning Grading Plan and Stormwater Management Analysis," September 2006.

Kleinschmidt, 2006b, "Post-Decommissioning Planting Plan and Specifications," September 2006.

MA DEP, 2000, "Authorization for Implementation of Immediate Response Action (IRA)," Letter to Yankee, May 2000.

MA DEP, 2006, "The Massachusetts Contingency Plan," 310 CMR 40.0000, 23 April 2006.

Woodlot, 2006, "West Storm Drain Ditch BVW Replacement Area Monitoring Report", 13 December 2006.

YAEC, 2000, "Release Notification Form and IRA Plan for YNPS IAW 310 CMR 40.0000, 23 June 2000.

YAEC, 2005a, "Release Abatement Measure Plan Modification," 17 February 2005.

YAEC, 2005b "Proposed Remedial Plan - PCB Cleanup in Soil," 4 April 2005.

YAEC, 2005c"Notification and Certification of Self-Implementing Cleanup & Disposal of PCB Remediation Waste - Southeast Construction Fill Area," Letter to USEPA (Ms. K. Tisa), 4 April 2005.

YAEC, 2005d, "Notification and Certification of Self-Implementing Cleanup & Disposal of PCB Remediation Waste - Yankee Nuclear Power Station," Letter to USEPA (Ms. K. Tisa), 6 May 2005.

YAEC, 2005e, "Release Abatement Measure Completion Report," 27 July 2005.

YAEC, 2006, "Closure Report - Fire Water Pumphouse Drywell," 1 June 2006.

# *Tables*

**Table 1**
**Sediment PCB Closure Data**
**for East Storm Drain**
**Yankee Nuclear Power Station**
**Rowe, MA**

| Station | | SD-544 | SD-601 | SD-601 | SD-602 | SD-603 | SD-604 | SD-605 | SD-606 |
|---|---|---|---|---|---|---|---|---|---|
| Sample ID | Clean-up | SD-544R-00-03I | SD-601-00-03I | FD007-00-03I-112204 | SD-602-00-03I | SD-603-00-03I | SD-604-00-03I | SD-605-00-03I | SD-606-00-03I |
| Date Sampled | Goal | 11/20/2004 | 11/22/2004 | 11/22/2004 | 11/22/2004 | 11/22/2004 | 11/22/2004 | 11/22/2004 | 11/22/2004 |
| Comment | | closure/resample | closure | closure-DUP | closure | closure | closure | closure | closure |
| Aroclor-1016 | | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U |
| Aroclor-1221 | | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U |
| Aroclor-1232 | | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U |
| Aroclor-1242 | | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U |
| Aroclor-1248 | | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U |
| Aroclor-1254 | | 0.033 U | 0.15 J | 1.2 J | 0.033 U | 0.035 J | 0.033 U | 0.61 J | 0.17 J |
| Aroclor-1260 | | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U |
| Total PCBs | 1 | ND | 0.15 | **1.2** | ND | 0.035 | ND | 0.61 | 0.17 |

Notes:
DUP = field duplicate sample
PCB = polychlorinated biphenyls
Units in mg/kg (parts per million)
**Bold values detected above standard**
J= Estimated result
R= Rejected result
U= below detection limit
UJ= Estimate, below detection limit
* Samples SD-626 and 631 were further evaluated by composite sample SD-750
PCB Clean-up goal based on TSCA standard

**Table 1**
**Sediment PCB Closure Data**
**for East Storm Drain**
**Yankee Nuclear Power Station**
**Rowe, MA**

| Station | | SD-607 | SD-608 | SD-609 | SD-610 | SD-611 | SD-612 | SD-613 | SD-614 | SD-615 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID | Clean-up | SD-607-00-03I | SD-608-00-03I | SD-609-00-03I | SD-610-00-03I | SD-611-00-03I | SD-612-00-03I | SD-613-00-03I | SD-614-00-03I | SD-615-00-03I |
| Date Sampled | Goal | 11/22/2004 | 11/22/2004 | 11/22/2004 | 11/22/2004 | 11/22/2004 | 11/22/2004 | 11/22/2004 | 11/22/2004 | 11/22/2004 |
| Comment | | closure | closure | closure | closure | closure | closure | closure | closure | closure |
| Aroclor-1016 | | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U |
| Aroclor-1221 | | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U |
| Aroclor-1232 | | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U |
| Aroclor-1242 | | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U |
| Aroclor-1248 | | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U |
| Aroclor-1254 | | 0.039 | 0.033 U | 0.59 | 0.70 J | 0.064 | 0.098 J | 0.095 | 0.31 | 0.36 |
| Aroclor-1260 | | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U |
| Total PCBs | 1 | 0.039 | ND | 0.59 | 0.70 | 0.064 | 0.098 | 0.095 | 0.31 | 0.36 |

Notes:
DUP = field duplicate sample
PCB = polychlorinated biphenyls
Units in mg/kg (parts per million)
**Bold values detected above standard**
J= Estimated result
R= Rejected result
U= below detection limit
UJ= Estimate, below detection limit
* Samples SD-626 and 631 were further evaluated by composite sample SD-750
PCB Clean-up goal based on TSCA standard

**Table 1**
**Sediment PCB Closure Data**
**for East Storm Drain**
**Yankee Nuclear Power Station**
**Rowe, MA**

| Station<br>Sample ID<br>Date Sampled<br>Comment | Clean-up Goal | SD-616<br>SD-616-00-03I<br>11/22/2004<br>closure | SD-617<br>SD-617-00-03I<br>11/22/2004<br>closure | SD-618<br>SD-618-00-03I<br>11/22/2004<br>closure | SD-619<br>SD-619-00-03I<br>11/22/2004<br>closure | SD-620<br>SD-620-00-03I<br>11/22/2004<br>closure | SD-621<br>SD-621-00-03I<br>11/22/2004<br>closure | SD-621<br>FD008-00-03I-112204<br>11/22/2004<br>closure-DUP | SD-622<br>SD-622-00-03I<br>11/22/2004<br>closure | SD-623<br>SD-623-00-03I<br>11/22/2004<br>closure |
|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 | | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U |
| Aroclor-1221 | | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U |
| Aroclor-1232 | | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U |
| Aroclor-1242 | | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U |
| Aroclor-1248 | | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U |
| Aroclor-1254 | | 0.31 J | 0.22 | 0.38 | 0.36 J | 0.60 | 0.43 J | 0.068 J | 0.064 J | 0.052 J |
| Aroclor-1260 | | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U |
| Total PCBs | 1 | 0.31 | 0.22 | 0.38 | 0.36 | 0.60 | 0.43 | 0.068 | 0.064 | 0.052 |

Notes:
DUP = field duplicate sample
PCB = polychlorinated biphenyls
Units in mg/kg (parts per million)
**Bold values detected above standard**
J= Estimated result
R= Rejected result
U= below detection limit
UJ= Estimate, below detection limit
* Samples SD-626 and 631 were further evaluated by composite sample SD-750
PCB Clean-up goal based on TSCA standard

**Table 1**
**Sediment PCB Closure Data**
**for East Storm Drain**
**Yankee Nuclear Power Station**
**Rowe, MA**

| Station<br>Sample ID<br>Date Sampled<br>Comment | Clean-up Goal | SD-624<br>SD-624-00-03I<br>11/22/2004<br>closure | SD-625<br>SD-625-00-03I<br>11/22/2004<br>closure | SD-626*<br>SD-626-00-03I<br>11/22/2004<br>closure | SD-627<br>SD-627-00-03I<br>11/22/2004<br>closure | SD-628<br>SD-628-00-03I<br>11/22/2004<br>closure | SD-629<br>SD-629-00-03I<br>11/22/2004<br>closure | SD-630<br>SD-630-00-03I<br>11/22/2004<br>closure | SD-631*<br>SD-631-00-03I<br>11/22/2004<br>closure | SD-632<br>SD-632-00-03I<br>11/22/2004<br>closure |
|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 | | 0.035 U | 0.033 U | 0.13 U | 0.034 U | 0.033 U | 0.033 U | 0.033 U | 0.034 U | 0.033 U |
| Aroclor-1221 | | 0.035 U | 0.033 U | 0.13 U | 0.034 U | 0.033 U | 0.033 U | 0.033 U | 0.034 U | 0.033 U |
| Aroclor-1232 | | 0.035 U | 0.033 U | 0.13 U | 0.034 U | 0.033 U | 0.033 U | 0.033 U | 0.034 U | 0.033 U |
| Aroclor-1242 | | 0.035 U | 0.033 U | 0.13 U | 0.034 U | 0.033 U | 0.033 U | 0.033 U | 0.034 U | 0.033 U |
| Aroclor-1248 | | 0.035 U | 0.033 U | 0.13 U | 0.034 U | 0.033 U | 0.033 U | 0.033 U | 0.034 U | 0.033 U |
| Aroclor-1254 | | 0.035 U | 0.76 J | 3.4 J | 0.48 | 0.033 U | 0.033 U | 0.16 | 1.6 | 0.033 U |
| Aroclor-1260 | | 0.035 U | 0.033 U | 0.13 U | 0.034 U | 0.033 U | 0.033 U | 0.033 U | 0.034 U | 0.033 U |
| Total PCBs | 1 | ND | 0.76 | **3.4** | 0 | ND | ND | 0.16 | **1.6** | ND |

Notes:
DUP = field duplicate sample
PCB = polychlorinated biphenyls
Units in mg/kg (parts per million)
**Bold values detected above standard**
J= Estimated result
R= Rejected result
U= below detection limit
UJ= Estimate, below detection limit
* Samples SD-626 and 631 were further evaluated by composite sample SD-750
PCB Clean-up goal based on TSCA standard

**Table 1**
**Sediment PCB Closure Data**
**for East Storm Drain**
**Yankee Nuclear Power Station**
**Rowe, MA**

| Station | | SD-633 | SD-634 | SD-635 | SD-636 | SD-637 | SD-638 | SD-639 | SD-640 | SD-641 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID | Clean-up | SD-633-00-03I | SD-634-00-03I | SD-635-00-03I | SD-636-00-03I | SD-637-00-03I | SD-638-00-03I | SD-639-00-03I | SD-640-00-03I | SD-641-00-03I |
| Date Sampled | Goal | 11/22/2004 | 11/22/2004 | 11/22/2004 | 11/22/2004 | 11/22/2004 | 11/22/2004 | 11/23/2004 | 11/23/2004 | 11/23/2004 |
| Comment | | closure | closure | closure | closure | closure | closure | closure | closure | closure |
| Aroclor-1016 | | 0.033 U | 0.033 U | 0.04 U | 0.054 U | 0.033 U | 0.041 U | 0.033 U | 0.033 U | 0.04 U |
| Aroclor-1221 | | 0.033 U | 0.033 U | 0.04 U | 0.054 U | 0.033 U | 0.041 U | 0.033 U | 0.033 U | 0.04 U |
| Aroclor-1232 | | 0.033 U | 0.033 U | 0.04 U | 0.054 U | 0.033 U | 0.041 U | 0.033 U | 0.033 U | 0.04 U |
| Aroclor-1242 | | 0.033 U | 0.033 U | 0.04 U | 0.054 U | 0.033 U | 0.041 U | 0.033 U | 0.033 U | 0.04 U |
| Aroclor-1248 | | 0.033 U | 0.033 U | 0.04 U | 0.054 U | 0.033 U | 0.041 U | 0.033 U | 0.033 U | 0.04 U |
| Aroclor-1254 | | 0.033 U | 0.14 J | 0.86 | 0.054 U | 0.033 U | 0.086 | 0.14 | 0.033 U | 0.64 |
| Aroclor-1260 | | 0.033 U | 0.033 U | 0.04 U | 0.054 U | 0.033 U | 0.041 U | 0.033 U | 0.033 U | 0.04 U |
| Total PCBs | 1 | ND | 0.14 | 0.86 | ND | ND | 0.086 | 0.14 | ND | 0.64 |

Notes:
DUP = field duplicate sample
PCB = polychlorinated biphenyls
Units in mg/kg (parts per million)
**Bold values detected above standard**
J= Estimated result
R= Rejected result
U= below detection limit
UJ= Estimate, below detection limit
* Samples SD-626 and 631 were further evaluated by composite sample SD-750
PCB Clean-up goal based on TSCA standard

**Table 1**
**Sediment PCB Closure Data**
**for East Storm Drain**
**Yankee Nuclear Power Station**
**Rowe, MA**

| Station<br>Sample ID<br>Date Sampled<br>Comment | Clean-up Goal | SD-641<br>FD009-00-03I-112304<br>11/23/2004<br>closure-DUP | SD-642<br>SD-642-00-03I<br>11/23/2004<br>closure | SD-643<br>SD-643-00-03I<br>11/23/2004<br>closure | SD-750<br>SD-750-00-03I<br>12/15/2004<br>closure | SD-750<br>SD-750D-00-03<br>12/15/2004<br>closure-DUP |
|---|---|---|---|---|---|---|
| Aroclor-1016 | | 0.035 U | 0.05 U | 0.049 U | 0.034 U | 0.034 U |
| Aroclor-1221 | | 0.035 U | 0.05 U | 0.049 U | 0.034 U | 0.034 U |
| Aroclor-1232 | | 0.035 U | 0.05 U | 0.049 U | 0.034 U | 0.034 U |
| Aroclor-1242 | | 0.035 U | 0.05 U | 0.049 U | 0.034 U | 0.034 U |
| Aroclor-1248 | | 0.035 U | 0.05 U | 0.049 U | 0.034 U | 0.034 U |
| Aroclor-1254 | | 0.78 | 0.65 | 0.049 U | 0.94 | 1 |
| Aroclor-1260 | | 0.035 U | 0.05 U | 0.049 U | 0.034 U | 0.034 U |
| Total PCBs | 1 | 0.78 | 0.65 | ND | 0.94 | 1 |

Notes:
DUP = field duplicate sample
PCB = polychlorinated biphenyls
Units in mg/kg (parts per million)
**Bold values detected above standard**
J= Estimated result
R= Rejected result
U= below detection limit
UJ= Estimate, below detection limit
* Samples SD-626 and 631 were further evaluated by composite sample SD-750
PCB Clean-up goal based on TSCA standard

Table 2
Sediment PCB Closure Data
for West Storm Drain Ditch
Yankee Nuclear Power Station
Rowe, MA

| Station<br>Sample ID<br>Date Sampled<br>Comment | Clean-up Goal | SD-701<br>SD-701-00-03I<br>11/18/2004 | SD-701<br>FD011-00-03I<br>11/18/2004<br>DUP | SD-702<br>SD-702-00-03I<br>10/27/2004 | SD-703<br>SD-703-00-03I<br>10/27/2004 | SD-703<br>SD-703R-00-03I<br>11/18/2004<br>Resample | SD-704<br>SD-704-00-03I<br>10/27/2004 | SD-704<br>SD-704R-00-03I<br>11/18/2004<br>Resample | SD-705<br>SD-705-00-03I<br>10/27/2004 |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 | | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U |
| Aroclor-1221 | | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U |
| Aroclor-1232 | | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U |
| Aroclor-1242 | | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U |
| Aroclor-1248 | | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U |
| Aroclor-1254 | | 0.065 J | 0.082 | 0.19 | 0.53 | 0.081 J | 0.78 | 0.039 J | 0.5 J |
| Aroclor-1260 | | 0.033 U | 0.033 U | 0.033 U | 0.55 J | 0.033 U | 0.43 | 0.033 U | 0.033 U |
| Aroclor-1262 | | NA | NA | NA | NA | NA | NA | NA | NA |
| Aroclor-1268 | | NA | NA | NA | NA | NA | NA | NA | NA |
| Total PCBs | 1 | 0.065 | 0.082 | 0.19 | 1.08 | 0.081 | 1.21 | 0.039 | 0.5 |

Notes:
DUP = field duplicate sample
PCB = polychlorinated biphenyls
NA = Not Analyzed
Units in mg/kg (parts per million)
**Bold values detected above clean-up goal**
Shaded locations were re-excavated
J= Estimated result
R= Rejected result
U= below detection limit
UJ= Estimate, below detection limit
PCB Clean-up goal based on TSCA standard

Table 2
Sediment PCB Closure Data
for West Storm Drain Ditch
Yankee Nuclear Power Station
Rowe, MA

| Station<br>Sample ID<br>Date Sampled<br>Comment | Clean-up Goal | SD-706<br>SD-706-00-03I<br>10/27/2004 | SD-707<br>SD-707-00-03I<br>10/28/2004 | SD-708<br>SD-708-00-03I<br>10/28/2004 | SD-709<br>SD-709-00-03I<br>10/28/2004 | SD-710<br>SD-710 0003I<br>11/1/2004 | SD-711<br>SD-711 0003I<br>11/1/2004 | SD-712<br>SD-712 0003I<br>11/1/2004 | SD-713<br>SD-713 0003I<br>11/1/2004 |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 | | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U |
| Aroclor-1221 | | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U |
| Aroclor-1232 | | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U |
| Aroclor-1242 | | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U |
| Aroclor-1248 | | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U |
| Aroclor-1254 | | 0.064 J | 0.38 | 0.033 U | 0.033 U | 0.033 U | 0.19 J | 0.084 J | 0.033 U |
| Aroclor-1260 | | 0.033 U | 0.24 J | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U |
| Aroclor-1262 | | NA | NA | NA | NA | NA | NA | NA | NA |
| Aroclor-1268 | | NA | NA | NA | NA | NA | NA | NA | NA |
| Total PCBs | 1 | 0.064 | 0.62 | ND | ND | ND | 0.19 | 0.084 | ND |

Notes:
DUP = field duplicate sample
PCB = polychlorinated biphenyls
NA = Not Analyzed
Units in mg/kg (parts per million)
**Bold values detected above clean-up goa**
Shaded locations were re-excavated
J= Estimated result
R= Rejected result
U= below detection limit
UJ= Estimate, below detection limit
PCB Clean-up goal based on TSCA standard

Table 2
Sediment PCB Closure Data
for West Storm Drain Ditch
Yankee Nuclear Power Station
Rowe, MA

| Station<br>Sample ID<br>Date Sampled<br>Comment | Clean-up Goal | SD-714<br>SD-714 0003I<br>11/1/2004 | SD-715<br>SD-715 0003I<br>11/1/2004 | SD-716<br>SD-716-00-03I<br>11/2/2004 | SD-717<br>SD-717-00-03I<br>11/2/2004 | SD-718<br>SD-718-00-03I<br>11/2/2004 | SD-719<br>SD-719-00-03I<br>11/2/2004 | SD-720<br>SD-720-00-03I<br>11/2/2004 | SD-721<br>SD-721-00-03I<br>11/2/2004 |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 | | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U |
| Aroclor-1221 | | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U |
| Aroclor-1232 | | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U |
| Aroclor-1242 | | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U |
| Aroclor-1248 | | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U |
| Aroclor-1254 | | 0.033 U | 0.29 | 0.31 | 0.033 U | 0.046 J | 0.033 U | 0.033 U | 0.033 U |
| Aroclor-1260 | | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U |
| Aroclor-1262 | | NA | NA | NA | NA | NA | NA | NA | NA |
| Aroclor-1268 | | NA | NA | NA | NA | NA | NA | NA | NA |
| Total PCBs | 1 | ND | 0.29 | 0.31 | ND | 0.046 | ND | ND | ND |

Notes:
DUP = field duplicate sample
PCB = polychlorinated biphenyls
NA = Not Analyzed
Units in mg/kg (parts per million)
**Bold values detected above clean-up goa**
Shaded locations were re-excavated
J= Estimated result
R= Rejected result
U= below detection limit
UJ= Estimate, below detection limit
PCB Clean-up goal based on TSCA standard

**Table 2**
**Sediment PCB Closure Data**
**for West Storm Drain Ditch**
**Yankee Nuclear Power Station**
**Rowe, MA**

| Station<br>Sample ID<br>Date Sampled<br>Comment | Clean-up Goal | SD-721<br>FD012-00-03I<br>11/2/2004<br>DUP | SD-722<br>SD-722-00-03I<br>11/2/2004 | SD-723<br>SD-723-00-03I<br>11/2/2004 | SD-724<br>SD-724-00-03I<br>11/2/2004 | SD-725<br>SD-725-00-03I<br>11/3/2004 | SD-726<br>SD-726-00-03I<br>11/3/2004 | SE-WSD001<br>SE-WSD001-0003I<br>9/29/2005 | SE-WSD001<br>FD001-092905<br>9/29/2005 |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 | | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.0101 U | 0.00994 U |
| Aroclor-1221 | | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.0101 U | 0.00994 U |
| Aroclor-1232 | | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.0101 U | 0.00994 U |
| Aroclor-1242 | | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.0101 U | 0.00994 U |
| Aroclor-1248 | | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.033 U | 0.0101 U | 0.00994 U |
| Aroclor-1254 | | 0.033 U | 0.033 U | 0.047 J | 0.06 J | 0.033 U | 0.033 U | 0.0246 | 0.0492 |
| Aroclor-1260 | | 0.033 U | 0.033 U | 0.033 U | 0.049 J | 0.033 U | 0.033 U | 0.00754 J | 0.0119 |
| Aroclor-1262 | | NA | NA | NA | NA | NA | NA | 0.0101 U | 0.00994 U |
| Aroclor-1268 | | NA | NA | NA | NA | NA | NA | 0.0101 U | 0.00994 U |
| Total PCBs | 1 | ND | ND | 0.047 | 0.109 | ND | ND | 0.03214 | 0.0611 |

Notes:
DUP = field duplicate sample
PCB = polychlorinated biphenyls
NA = Not Analyzed
Units in mg/kg (parts per million)
**Bold values detected above clean-up goa**
Shaded locations were re-excavated
J= Estimated result
R= Rejected result
U= below detection limit
UJ= Estimate, below detection limit
PCB Clean-up goal based on TSCA standard

Table 2
Sediment PCB Closure Data
for West Storm Drain Ditch
Yankee Nuclear Power Station
Rowe, MA

| Station<br>Sample ID<br>Date Sampled<br>Comment | Clean-up Goal | SE-WSD002<br>SE-WSD002-0003I<br>9/29/2005 | SE-WSD003<br>SE-WSD003-0003I<br>9/29/2005 | SE-WSD004<br>SE-WSD004-0003I<br>9/29/2005 | SE-WSD005<br>SE-WSD005-0003I<br>9/29/2005 | SE-WSD006<br>SE-WSD006-0003I<br>9/29/2005 | SD-727<br>SD-727<br>10/6/2005 | SD-728<br>SD-728<br>10/6/2005 |
|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 | | 0.0101 U | 0.0103 U | 0.0101 U | 0.0112 U | 0.0102 U | 0.00992 U | 0.0103 U |
| Aroclor-1221 | | 0.0101 U | 0.0103 U | 0.0101 U | 0.0112 U | 0.0102 U | 0.00992 U | 0.0103 U |
| Aroclor-1232 | | 0.0101 U | 0.0103 U | 0.0101 U | 0.0112 U | 0.0102 U | 0.00992 U | 0.0103 U |
| Aroclor-1242 | | 0.0101 U | 0.0103 U | 0.0101 U | 0.0112 U | 0.0102 U | 0.00992 U | 0.0103 U |
| Aroclor-1248 | | 0.0101 U | 0.0103 U | 0.0101 U | 0.0112 U | 0.0102 U | 0.00992 U | 0.0103 U |
| Aroclor-1254 | | 0.0121 | 0.0205 | 0.0328 | 1.02 | 1.18 | 0.219 | 0.163 |
| Aroclor-1260 | | 0.00707 J | 0.00564 J | 0.0116 | 0.159 | 0.218 | 0.0525 | 0.0374 |
| Aroclor-1262 | | 0.0101 U | 0.0103 U | 0.0101 U | 0.0112 U | 0.0102 U | 0.00992 U | 0.0103 U |
| Aroclor-1268 | | 0.0101 U | 0.0103 U | 0.0101 U | 0.0112 U | 0.0102 U | 0.00992 U | 0.0103 U |
| Total PCBs | 1 | 0.01917 | 0.02614 | 0.0444 | 1.179 | 1.398 | 0.2715 | 0.2004 |

Notes:
DUP = field duplicate sample
PCB = polychlorinated biphenyls
NA = Not Analyzed
Units in mg/kg (parts per million)
**Bold values detected above clean-up goa**
Shaded locations were re-excavated
J= Estimated result
R= Rejected result
U= below detection limit
UJ= Estimate, below detection limit
PCB Clean-up goal based on TSCA standard

Table 2
Sediment PCB Closure Data
for West Storm Drain Ditch
Yankee Nuclear Power Station
Rowe, MA

| Station<br>Sample ID<br>Date Sampled<br>Comment | Clean-up Goal | SD-729<br>SD-729<br>10/6/2005 | SD-730<br>SD-730<br>10/6/2005 | SD-730<br>SD-730R<br>10/12/2005<br>Resample | SD-731<br>SD-731<br>10/6/2005 | SD-732<br>SD-732<br>10/6/2005 | SD-733<br>SD-733<br>10/6/2005 | SD-734<br>SD-734<br>10/6/2005 | SD-735<br>SD-735<br>10/6/2005 | SD-736<br>SD-736<br>10/6/2005 |
|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 | | 0.01 U | 0.0101 U | 0.00993 U | 0.00994 U | 0.00985 U | 0.00983 U | 0.00977 U | 0.0101 U | 0.011 U |
| Aroclor-1221 | | 0.01 U | 0.0101 U | 0.01093 U | 0.00994 U | 0.00985 U | 0.00983 U | 0.00977 U | 0.0101 U | 0.011 U |
| Aroclor-1232 | | 0.01 U | 0.0101 U | 0.01193 U | 0.00994 U | 0.00985 U | 0.00983 U | 0.00977 U | 0.0101 U | 0.011 U |
| Aroclor-1242 | | 0.01 U | 0.0101 U | 0.01293 U | 0.00994 U | 0.00985 U | 0.00983 U | 0.00977 U | 0.0101 U | 0.011 U |
| Aroclor-1248 | | 0.01 U | 0.0101 U | 0.01393 U | 0.00994 U | 0.00985 U | 0.00983 U | 0.00977 U | 0.0101 U | 0.011 U |
| Aroclor-1254 | | 0.0746 | 1.1 | 0.01493 U | 0.288 | 0.0807 | 0.0432 | 0.0751 | 0.0257 | 0.188 |
| Aroclor-1260 | | 0.0295 | 0.284 | 0.01593 U | 0.0869 | 0.0723 | 0.0231 | 0.0239 | 0.0167 | 0.0635 |
| Aroclor-1262 | | 0.01 U | 0.0101 U | 0.01693 U | 0.00994 U | 0.00985 U | 0.00983 U | 0.00977 U | 0.0101 U | 0.011 U |
| Aroclor-1268 | | 0.01 U | 0.0101 U | 0.01793 U | 0.00994 U | 0.00985 U | 0.00983 U | 0.00977 U | 0.0101 U | 0.011 U |
| Total PCBs | 1 | 0.1041 | 1.384 | ND | 0.3749 | 0.153 | 0.0663 | 0.099 | 0.0424 | 0.2515 |

Notes:
DUP = field duplicate sample
PCB = polychlorinated biphenyls
NA = Not Analyzed
Units in mg/kg (parts per million)
**Bold values detected above clean-up goa**
Shaded locations were re-excavated
J= Estimated result
R= Rejected result
U= below detection limit
UJ= Estimate, below detection limit
PCB Clean-up goal based on TSCA standard

Table 2
Sediment PCB Closure Data
for West Storm Drain Ditch
Yankee Nuclear Power Station
Rowe, MA

| Station<br>Sample ID<br>Date Sampled<br>Comment | Clean-up Goal | SD-737<br>SD-737<br>10/6/2005 | SD-737<br>FD001-100605<br>10/6/2005<br>DUP | SD-738<br>SD-738<br>10/6/2005 | SD-739<br>SD-739<br>10/6/2005 |
|---|---|---|---|---|---|
| Aroclor-1016 | | 0.00987 U | 0.01 U | 0.00978 U | 0.00999 U |
| Aroclor-1221 | | 0.00987 U | 0.01 U | 0.00978 U | 0.00999 U |
| Aroclor-1232 | | 0.00987 U | 0.01 U | 0.00978 U | 0.00999 U |
| Aroclor-1242 | | 0.00987 U | 0.01 U | 0.00978 U | 0.00999 U |
| Aroclor-1248 | | 0.00987 U | 0.01 U | 0.00978 U | 0.00999 U |
| Aroclor-1254 | | 0.072 | 0.0574 | 0.0308 | 0.0449 |
| Aroclor-1260 | | 0.0237 | 0.0175 | 0.0147 | 0.0419 |
| Aroclor-1262 | | 0.00987 U | 0.01 U | 0.00978 U | 0.00999 U |
| Aroclor-1268 | | 0.00987 U | 0.01 U | 0.00978 U | 0.00999 U |
| Total PCBs | 1 | 0.0957 | 0.0749 | 0.0455 | 0.0868 |

Notes:
DUP = field duplicate sample
PCB = polychlorinated biphenyls
NA = Not Analyzed
Units in mg/kg (parts per million)
**Bold values detected above clean-up goa**
Shaded locations were re-excavated
J= Estimated result
R= Rejected result
U= below detection limit
UJ= Estimate, below detection limit
PCB Clean-up goal based on TSCA standard

**Table 3**
**Soil PCB Closure Data for Study Area 1**
**Yankee Nuclear Power Station**
**Rowe, MA**

| Location | Sample ID | Date | Total PCBs (mg/kg) | Comments |
|---|---|---|---|---|
| **Area 1.1 - VC/RSS** | | | | |
| EX-1-014 | EX-1-014 | 8/11/2005 | 0.992 | |
| EX-1-015 | EX-1-015 | 8/11/2005 | 0.305 | |
| EX-1-017 | EX-1-017 | 8/6/2005 | 0.510 | |
| EX-1-018 | EX-1-018 | 7/28/2005 | 24.63 | EX-1-018 was re-excavated |
| | EX-1-018R | 8/10/2005 | 2.00 | Resample of EX-1-018 |
| EX-1-020 | EX-1-020 | 8/11/2005 | 2.28 | EX-1-020 was re-excavated |
| | EX-1-020R2 | 8/12/2005 | 0.097 | Resample of EX-1-020, there was no EX-1-020R |
| EX-1-022 | EX-1-022 | 8/6/2005 | 0.656 | |
| EX-1-023 | EX-1-023 | 7/26/2005 | 3.28 | EX-1-023 was re-excavated |
| | TFD002 | 7/26/2005 | 4.31 | Duplicate of EX-1-023 |
| | EX-1-023R | 8/6/2005 | 1.64 | Resample of EX-1-023, EX-1-023R was re-excavated |
| | EX-1-023R2 | 8/10/2005 | 0.480 | Resample of EX-1-023R |
| EX-1-025 | EX-1-025 | 7/25/2005 | 3.59 | EX-1-025 was re-excavated |
| | EX-1-025R | 8/8/2005 | 2.44 | Resample of EX-1-025 |
| EX-1-027 | EX-1-027 | 8/6/2005 | 0.483 | |
| EX-1-028 | EX-1-028 | 7/25/2005 | 2.20 | EX-1-028 was re-excavated |
| | EX-1-028R | 8/6/2005 | 1.19 | Resample of EX-1-028, EX-1-028R was re-excavated |
| | EX-1-028R2 | 8/10/2005 | 1.19 | Resample of EX-1-028R |
| | TFD003 | 8/10/2005 | 2.28 | Duplicate of EX-1-028R2 |
| EX-1-030 | EX-1-030 | 8/8/2005 | 0.712 | |
| EX-1-032 | EX-1-032 | 8/6/2005 | 1.31 | |
| EX-1-087 | EX-1-087 | 8/9/2005 | 0.284 | |
| EX-1-089 | EX-1-089 | 7/25/2005 | 5.74 | EX-1-089 was re-excavated |
| | EX-1-089R | 8/6/2005 | 0.47 | Resample of EX-1-089, EX-1-089R was re-excavated |
| | EX-1-089R2 | 8/10/2005 | 2.44 | Resample of EX-1-089R, EX-1-089R2 was re-excavated |
| | EX-1-089R3 | 8/18/2005 | 0.195 | Resample of EX-1-089R2 |
| EX-1-090 | EX-1-090 | 7/28/2005 | 4.95 | EX-1-090 was re-excavated |
| | EX-1-090R | 8/6/2005 | 2.35 | Resample of EX-1-090, EX-1-090R was re-excavated |
| | EX-1-090R2 | 8/10/2005 | 6.22 | Resample of EX-1-090R, EX-1-090R2 was re-excavated |
| | EX-1-090R3 | 8/18/2005 | 0.543 | Resample of EX-1-090R2 |
| EX-1-091 | EX-1-091 | 7/28/2005 | 2.67 | EX-1-091 was re-excavated |
| | EX-1-091R | 8/10/2005 | 2.38 | Resample of EX-1-091, EX-1-091R was re-excavated |
| EX-1-091 | EX-1-091R3 | 8/18/2005 | 0.108 | Resample of EX-1-091R, there was no EX-1-091R2 |

Table 3
Soil PCB Closure Data for Study Area 1
Yankee Nuclear Power Station
Rowe, MA

| Location | Sample ID | Date | Total PCBs (mg/kg) | Comments |
|---|---|---|---|---|
| EX-1-092 | EX-1-092 | 8/18/2005 | 0.158 | |
| | TFD004 | 8/18/2005 | 0.165 | Duplicate of EX-1-092 |
| EX-1-093 | EX-1-093 | 8/18/2005 | 0.018 | |
| EX-1-094 | EX-1-094 | 8/18/2005 | 0.338 | |
| EX-1-097 | EX-1-097 | 8/6/2005 | 0.619 | |
| EX-1-113 | EX-1-113 | 8/6/2005 | 0.484 | |
| EX-1-114 | EX-1-114 | 8/6/2005 | 0.257 | |
| EX-1-115 | EX-1-115 | 8/6/2005 | 1.50 | |
| **Areas 1.2 (VC Entry), 1.6 (Crane Pad West), and 1.9 (Deep Target Area)** | | | | |
| EX-1-007 | EX-1-007 | 8/22/2005 | 0.071 | |
| | TFD005 | 8/22/2005 | 0.072 | Duplicate of EX-1-007 |
| EX-1-007R* | EX-1-007R* | 8/30/2005 | 0.83 | Not a resample, only a portion of EX-1-007 was included in EX-1-007R |
| EX-1-008 | EX-1-008 | 8/22/2005 | 0.602 | |
| EX-1-008R* | EX-1-008R* | 8/30/2005 | 1.70 | Not a resample, only a portion of EX-1-008 was included in EX-1-008R |
| EX-1-011 | EX-1-011 | 8/22/2005 | 3.75 | EX-1-011 was re-excavated |
| | EX-1-011R | 8/30/2005 | 1.21 | Resample of EX-1-011 |
| EX-1-016 | EX-1-016 | 8/22/2005 | 0.049 | |
| EX-1-021 | EX-1-021 | 8/22/2005 | 0.197 | |
| EX-1-026 | EX-1-026 | 8/22/2005 | 0.384 | |
| EX-1-031 | EX-1-031 | 8/22/2005 | 1.95 | EX-1-031 was re-excavated |
| | EX-1-031R | 8/30/2005 | 1.54 | Resample of EX-1-031 |
| EX-1-104 | EX-1-104 | 8/31/2005 | 0.035 | |
| EX-1-107 | EX-1-107 | 8/30/2005 | 2.16 | |
| EX-1-003 | EX-1-003 | 8/30/2005 | 0.806 | |
| EX-1-004 | EX-1-004 | 8/31/2005 | 0.015 | |
| EX-1-108 | EX-1-108 | 9/2/2005 | 1.87 | EX-1-108 was re-excavated |
| | TFD006 | 9/2/2005 | 0.938 | Duplicate of EX-1-108 |
| | EX-1-108R | 9/14/2005 | 3.13 | Resample of EX-1-108 |
| EX-1-109 | EX-1-109 | 9/2/2005 | 1.21 | |
| EX-1-128 | EX-1-128 | 9/2/2005 | 0.852 | |
| **Area 1.3 - Alley** | | | | |
| EX-1-038 | EX-1-038 | 9/19/2005 | 0.148 | |
| EX-1-039 | EX-1-039 | 9/19/2005 | 0.101 | |
| EX-1-041 | EX-1-041 | 9/19/2005 | 0.871 | |

Table 3
Soil PCB Closure Data for Study Area 1
Yankee Nuclear Power Station
Rowe, MA

| Location | Sample ID | Date | Total PCBs (mg/kg) | Comments |
|---|---|---|---|---|
| EX-1-043 | EX-1-043 | 9/19/2005 | 0.503 | |
| EX-1-044 | EX-1-044 | 9/19/2005 | 0.838 | |
| EX-1-045 | EX-1-045 | 9/19/2005 | 0.585 | |
| | TFD011 | 9/19/2005 | 0.495 | Duplicate of EX-1-045 |
| EX-1-100 | EX-1-100 | 9/19/2005 | 1.31 | |
| EX-1-101 | EX-1-101 | 9/19/2005 | 0.335 | |
| EX-1-102 | EX-1-102 | 9/19/2005 | 0.816 | |
| EX-1-103 | EX-1-103 | 9/19/2005 | 1.59 | |
| **Area 1.4 - Yard** | | | | |
| EX-1-049 | EX-1-049 | 8/1/2005 | 0.14 | Area re-excavated and resampled by EX-202 |
| EX-1-050 | EX-1-050 | 8/1/2005 | 0.174 | |
| EX-1-051 | EX-1-051 | 11/8/2005 | 0.139 | |
| EX-1-052 | EX-1-052 | 8/1/2005 | 4.84 | Area re-excavated and resampled by EX-201 |
| EX-1-053 | EX-1-053 | 8/1/2005 | 0.363 | |
| EX-1-055 | EX-1-055 | 11/8/2005 | 0.280 | |
| EX-1-056 | EX-1-056 | 8/1/2005 | 0.518 | |
| EX-1-060 | EX-1-060 | 8/1/2005 | 0.184 | |
| EX-201 | EX-201 | 8/5/2005 | ND | Resample of EX-1-052 |
| EX-202 | EX-202 | 8/5/2005 | ND | Resample of EX-1-049 |
| EX-203 | EX-203 | 8/5/2005 | ND | |
| EX-204 | EX-204 | 8/5/2005 | ND | |
| EX-205 | EX-205 | 8/5/2005 | ND | |
| | FD001 | 8/5/2005 | ND | Duplicate of EX-1-205 |
| EX-206 | EX-206-0003F | 8/11/2005 | 0.132 | |
| EX-207 | EX-207-0003F | 10/6/2005 | 0.199 | |
| **Area 1.7 - Crane Pad East** | | | | |
| EX-1-054 | EX-1-054 | 9/12/2005 | 0.312 | |
| EX-1-058 | EX-1-058 | 9/12/2005 | 0.435 | |
| EX-FPH-001 | EX-FPH-001 | 8/12/2005 | 0.726 | |
| EX-FPH-002 | EX-FPH-002 | 8/12/2005 | 0.174 | |
| EX-FPH-003 | EX-FPH-003 | 8/12/2005 | 0.293 | |
| EX-FPH-004 | EX-FPH-004 | 8/12/2005 | 0.837 | |
| EX-FPH-005 | EX-FPH-005 | 8/12/2005 | 0.254 | |

**Table 3**
**Soil PCB Closure Data for Study Area 1**
**Yankee Nuclear Power Station**
**Rowe, MA**

| Location | Sample ID | Date | Total PCBs (mg/kg) | Comments |
|---|---|---|---|---|
| **Area 1.5 - Building Trenches** | | | | |
| EX-1-119 | EX-1-119 | 7/21/2005 | 0.366 | |
| EX-1-120 | EX-1-120 | 7/21/2005 | 0.621 | |
| EX-1-121 | EX-1-121 | 7/21/2005 | 0.331 | |
| EX-1-122 | EX-1-122 | 7/21/2005 | 1.22 | |
| EX-1-124 | EX-1-124 | 8/29/2005 | 0.308 | |
| EX-1-125 | EX-1-125 | 8/29/2005 | 0.442 | |
| EX-1-126 | EX-1-126 | 9/15/2005 | 0.192 | |
| EX-1-127 | EX-1-127 | 9/15/2005 | 0.498 | |
| **Area 1.8 - Fuel Oil** | | | | |
| EX-1-046 | EX-1-046 | 9/13/2005 | 2.41 | EX-1-046 was re-excavated |
| | EX-1-046R | 10/3/2005 | 1.14 | Resample of EX-1-046 |
| EX-1-047 | EX-1-047 | 9/13/2005 | 6.53 | EX-1-047 was re-excavated |
| | EX-1-047R | 10/3/2005 | 0.453 | Resample of EX-1-047 |
| EX-1-048 | EX-1-048 | 9/13/2005 | 0.848 | |
| EX-1-079 | EX-1-079 | 9/13/2005 | 0.727 | EX-1-079 was re-excavated |
| | TFD008 | 9/13/2005 | 2.97 | Duplicate of EX-1-079 |
| | EX-1-079R | 10/3/2005 | 1.48 | Resample of EX-1-079 |
| EX-1-080 | EX-1-080 | 9/13/2005 | 6.46 | EX-1-080 was re-excavated |
| | EX-1-080R | 10/3/2005 | 1.28 | Resample of EX-1-080 |
| **Area 1.10 - West of Turbine Building** | | | | |
| EX-1-001 | EX-1-001 | 6/29/2005 | 0.161 | |
| EX-1-002 | EX-1-002 | 6/29/2005 | 1.19 | EX-1-002 was re-excavated |
| | EX-1-002R | 9/14/2005 | 0.536 | Resample of EX-1-002, EX-1-002R was re-excavated |
| | EX-1-002R2 | 9/26/2005 | 1.12 | Resample of EX-1-002R |
| EX-1-129 | EX-1-129 | 6/29/2005 | 11.02 | EX-1-129 was re-excavated |
| | EX-1-129R | 9/14/2005 | 6.07 | Resample of EX-1-129, EX-1-129R was re-excavated |
| | EX-1-129R2 | 9/26/2005 | 0.780 | Resample of EX-1-129R |
| EX-1-130 | EX-1-130 | 6/29/2005 | 7.88 | EX-1-130 was re-excavated |
| | EX-1-130R | 9/14/2005 | 9.60 | Resample of EX-1-130, EX-1-130R was re-excavated |
| EX-1-130 | EX-1-130R2 | 9/26/2005 | 2.41 | Resample of EX-1-130R |
| | EX-1-131 | 6/29/2005 | 2.66 | EX-1-131 was re-excavated |

**Table 3**
**Soil PCB Closure Data for Study Area 1**
**Yankee Nuclear Power Station**
**Rowe, MA**

| Location | Sample ID | Date | Total PCBs (mg/kg) | Comments |
|---|---|---|---|---|
| EX-1-131 | EX-1-131R | 9/14/2005 | 2.30 | Resample of EX-1-131, EX-1-131R was re-excavated |
| | EX-1-131R2 | 9/26/2005 | 3.06 | Resample of EX-1-131R |
| | TFD014 | 9/26/2005 | 1.59 | Duplicate of EX-1-131R2 |
| EX-1-132 | EX-1-132 | 6/29/2005 | 0.532 | |
| EX-1-034R | EX-1-034R | 9/26/2005 | 2.16 | This is not a resample, there was no EX-1-034 |
| EX-1-024R | EX-1-024R | 9/26/2005 | 0.807 | This is not a resample, there was no EX-1-024 |
| EX-1-019 | EX-1-019 | 9/16/2005 | 1.13 | EX-1-019 was re-excavated |
| | TFD010 | 9/16/2005 | 6.82 | Duplicate of EX-1-019 |
| | EX-1-019R | 10/6/2005 | 0.324 | Resample of EX-1-019 |
| EX-1-201 | EX-1-201 | 9/27/2005 | 1.48 | |
| EX-1-202 | EX-1-202 | 9/27/2005 | 1.68 | |
| EX-1-203 | EX-1-203 | 9/27/2005 | 0.347 | |
| EX-1-204 | EX-1-204 | 9/27/2005 | 0.266 | |
| EX-1-205 | EX-1-205 | 9/27/2005 | 1.89 | |
| EX-1-206 | EX-1-206 | 9/27/2005 | 1.97 | |
| EX-1-207 | EX-1-207 | 9/27/2005 | 1.20 | |
| EX-1-208 | EX-1-208 | 9/27/2005 | 0.938 | |
| EX-1-209 | EX-1-209 | 9/27/2005 | 1.06 | |
| | TFD015 | 9/27/2005 | 1.20 | Duplicate of EX-1-209 |
| EX-1-210 | EX-1-210 | 9/27/2005 | 0.609 | – |

Notes:
mg/kg = milligram per kilogram, approximately equal to parts per million (ppm)
Shaded samples were re-excavated
PCB Clean-up goal based on TSCA standard

Table 3
Soil PCB Closure Data for Study Area 1
Yankee Nuclear Power Station
Rowe, MA

| Location | Sample ID | Date | Total PCBs (mg/kg) | Comments |
|---|---|---|---|---|
| Area 1.1 - VC/RSS | | | | |
| EX-1-014 | EX-1-014 | 8/11/2005 | 0.992 | |
| EX-1-015 | EX-1-015 | 8/11/2005 | 0.305 | |
| EX-1-017 | EX-1-017 | 8/6/2005 | 0.510 | |
| EX-1-018 | EX-1-018 | 7/28/2005 | 24.63 | EX-1-018 was re-excavated |
| | EX-1-018R | 8/10/2005 | 2.00 | Resample of EX-1-018 |
| EX-1-020 | EX-1-020 | 8/11/2005 | 2.28 | EX-1-020 was re-excavated |
| | EX-1-020R2 | 8/12/2005 | 0.097 | Resample of EX-1-020, there was no EX-1-020R |
| EX-1-022 | EX-1-022 | 8/6/2005 | 0.656 | |
| EX-1-023 | EX-1-023 | 7/26/2005 | 3.28 | EX-1-023 was re-excavated |
| | TFD002 | 7/26/2005 | 4.31 | Duplicate of EX-1-023 |
| | EX-1-023R | 8/6/2005 | 1.64 | Resample of EX-1-023, EX-1-023R was re-excavated |
| | EX-1-023R2 | 8/10/2005 | 0.480 | Resample of EX-1-023R |
| EX-1-025 | EX-1-025 | 7/25/2005 | 3.59 | EX-1-025 was re-excavated |
| | EX-1-025R | 8/8/2005 | 2.44 | Resample of EX-1-025 |
| EX-1-027 | EX-1-027 | 8/6/2005 | 0.483 | |
| EX-1-028 | EX-1-028 | 7/25/2005 | 2.20 | EX-1-028 was re-excavated |
| | EX-1-028R | 8/6/2005 | 1.19 | Resample of EX-1-028, EX-1-028R was re-excavated |
| | EX-1-028R2 | 8/10/2005 | 1.19 | Resample of EX-1-028R |
| | TFD003 | 8/10/2005 | 2.28 | Duplicate of EX-1-028R2 |
| EX-1-030 | EX-1-030 | 8/8/2005 | 0.712 | |
| EX-1-032 | EX-1-032 | 8/6/2005 | 1.31 | |
| EX-1-087 | EX-1-087 | 8/9/2005 | 0.284 | |
| EX-1-089 | EX-1-089 | 7/25/2005 | 5.74 | EX-1-089 was re-excavated |
| | EX-1-089R | 8/6/2005 | 0.47 | Resample of EX-1-089, EX-1-089R was re-excavated |
| | EX-1-089R2 | 8/10/2005 | 2.44 | Resample of EX-1-089R, EX-1-089R2 was re-excavated |
| | EX-1-089R3 | 8/18/2005 | 0.195 | Resample of EX-1-089R2 |
| EX-1-090 | EX-1-090 | 7/28/2005 | 4.95 | EX-1-090 was re-excavated |
| | EX-1-090R | 8/6/2005 | 2.35 | Resample of EX-1-090, EX-1-090R was re-excavated |
| | EX-1-090R2 | 8/10/2005 | 6.22 | Resample of EX-1-090R, EX-1-090R2 was re-excavated |
| | EX-1-090R3 | 8/18/2005 | 0.543 | Resample of EX-1-090R2 |
| EX-1-091 | EX-1-091 | 7/28/2005 | 2.67 | EX-1-091 was re-excavated |
| | EX-1-091R | 8/10/2005 | 2.38 | Resample of EX-1-091, EX-1-091R was re-excavated |
| EX-1-091 | EX-1-091R3 | 8/18/2005 | 0.108 | Resample of EX-1-091R, there was no EX-1-091R2 |

Table 3
Soil PCB Closure Data for Study Area 1
Yankee Nuclear Power Station
Rowe, MA

| Location | Sample ID | Date | Total PCBs (mg/kg) | Comments |
|---|---|---|---|---|
| EX-1-092 | EX-1-092 | 8/18/2005 | 0.158 | |
| | TFD004 | 8/18/2005 | 0.165 | Duplicate of EX-1-092 |
| EX-1-093 | EX-1-093 | 8/18/2005 | 0.018 | |
| EX-1-094 | EX-1-094 | 8/18/2005 | 0.338 | |
| EX-1-097 | EX-1-097 | 8/6/2005 | 0.619 | |
| EX-1-113 | EX-1-113 | 8/6/2005 | 0.484 | |
| EX-1-114 | EX-1-114 | 8/6/2005 | 0.257 | |
| EX-1-115 | EX-1-115 | 8/6/2005 | 1.50 | |
| **Areas 1.2 (VC Entry), 1.6 (Crane Pad West), and 1.9 (Deep Target Area)** | | | | |
| EX-1-007 | EX-1-007 | 8/22/2005 | 0.071 | |
| | TFD005 | 8/22/2005 | 0.072 | Duplicate of EX-1-007 |
| EX-1-007R* | EX-1-007R* | 8/30/2005 | 0.83 | Not a resample, only a portion of EX-1-007 was included in EX-1-007R |
| EX-1-008 | EX-1-008 | 8/22/2005 | 0.602 | |
| EX-1-008R* | EX-1-008R* | 8/30/2005 | 1.70 | Not a resample, only a portion of EX-1-008 was included in EX-1-008R |
| EX-1-011 | EX-1-011 | 8/22/2005 | 3.75 | EX-1-011 was re-excavated |
| | EX-1-011R | 8/30/2005 | 1.21 | Resample of EX-1-011 |
| EX-1-016 | EX-1-016 | 8/22/2005 | 0.049 | |
| EX-1-021 | EX-1-021 | 8/22/2005 | 0.197 | |
| EX-1-026 | EX-1-026 | 8/22/2005 | 0.384 | |
| EX-1-031 | EX-1-031 | 8/22/2005 | 1.95 | EX-1-031 was re-excavated |
| | EX-1-031R | 8/30/2005 | 1.54 | Resample of EX-1-031 |
| EX-1-104 | EX-1-104 | 8/31/2005 | 0.035 | |
| EX-1-107 | EX-1-107 | 8/30/2005 | 2.16 | |
| EX-1-003 | EX-1-003 | 8/30/2005 | 0.806 | |
| EX-1-004 | EX-1-004 | 8/31/2005 | 0.015 | |
| EX-1-108 | EX-1-108 | 9/2/2005 | 1.87 | EX-1-108 was re-excavated |
| | TFD006 | 9/2/2005 | 0.938 | Duplicate of EX-1-108 |
| | EX-1-108R | 9/14/2005 | 3.13 | Resample of EX-1-108 |
| EX-1-109 | EX-1-109 | 9/2/2005 | 1.21 | |
| EX-1-128 | EX-1-128 | 9/2/2005 | 0.852 | |
| **Area 1.3 - Alley** | | | | |
| EX-1-038 | EX-1-038 | 9/19/2005 | 0.148 | |
| EX-1-039 | EX-1-039 | 9/19/2005 | 0.101 | |
| EX-1-041 | EX-1-041 | 9/19/2005 | 0.871 | |

Table 3
Soil PCB Closure Data for Study Area 1
Yankee Nuclear Power Station
Rowe, MA

| Location | Sample ID | Date | Total PCBs (mg/kg) | Comments |
|---|---|---|---|---|
| EX-1-043 | EX-1-043 | 9/19/2005 | 0.503 | |
| EX-1-044 | EX-1-044 | 9/19/2005 | 0.838 | |
| EX-1-045 | EX-1-045 | 9/19/2005 | 0.585 | |
| | TFD011 | 9/19/2005 | 0.495 | Duplicate of EX-1-045 |
| EX-1-100 | EX-1-100 | 9/19/2005 | 1.31 | |
| EX-1-101 | EX-1-101 | 9/19/2005 | 0.335 | |
| EX-1-102 | EX-1-102 | 9/19/2005 | 0.816 | |
| EX-1-103 | EX-1-103 | 9/19/2005 | 1.59 | |
| **Area 1.4 - Yard** | | | | |
| EX-1-049 | EX-1-049 | 8/1/2005 | 0.14 | Area re-excavated and resampled by EX-202 |
| EX-1-050 | EX-1-050 | 8/1/2005 | 0.174 | |
| EX-1-051 | EX-1-051 | 11/8/2005 | 0.139 | |
| EX-1-052 | EX-1-052 | 8/1/2005 | 4.84 | Area re-excavated and resampled by EX-201 |
| EX-1-053 | EX-1-053 | 8/1/2005 | 0.363 | |
| EX-1-055 | EX-1-055 | 11/8/2005 | 0.280 | |
| EX-1-056 | EX-1-056 | 8/1/2005 | 0.518 | |
| EX-1-060 | EX-1-060 | 8/1/2005 | 0.184 | |
| EX-201 | EX-201 | 8/5/2005 | ND | Resample of EX-1-052 |
| EX-202 | EX-202 | 8/5/2005 | ND | Resample of EX-1-049 |
| EX-203 | EX-203 | 8/5/2005 | ND | |
| EX-204 | EX-204 | 8/5/2005 | ND | |
| EX-205 | EX-205 | 8/5/2005 | ND | |
| | FD001 | 8/5/2005 | ND | Duplicate of EX-1-205 |
| EX-206 | EX-206-0003F | 8/11/2005 | 0.132 | |
| EX-207 | EX-207-0003F | 10/6/2005 | 0.199 | |
| **Area 1.7 - Crane Pad East** | | | | |
| EX-1-054 | EX-1-054 | 9/12/2005 | 0.312 | |
| EX-1-058 | EX-1-058 | 9/12/2005 | 0.435 | |
| EX-FPH-001 | EX-FPH-001 | 8/12/2005 | 0.726 | |
| EX-FPH-002 | EX-FPH-002 | 8/12/2005 | 0.174 | |
| EX-FPH-003 | EX-FPH-003 | 8/12/2005 | 0.293 | |
| EX-FPH-004 | EX-FPH-004 | 8/12/2005 | 0.837 | |
| EX-FPH-005 | EX-FPH-005 | 8/12/2005 | 0.254 | |

Table 3
Soil PCB Closure Data for Study Area 1
Yankee Nuclear Power Station
Rowe, MA

| Location | Sample ID | Date | Total PCBs (mg/kg) | Comments |
|---|---|---|---|---|
| **Area 1.5 - Building Trenches** | | | | |
| EX-1-119 | EX-1-119 | 7/21/2005 | 0.366 | |
| EX-1-120 | EX-1-120 | 7/21/2005 | 0.621 | |
| EX-1-121 | EX-1-121 | 7/21/2005 | 0.331 | |
| EX-1-122 | EX-1-122 | 7/21/2005 | 1.22 | |
| EX-1-124 | EX-1-124 | 8/29/2005 | 0.308 | |
| EX-1-125 | EX-1-125 | 8/29/2005 | 0.442 | |
| EX-1-126 | EX-1-126 | 9/15/2005 | 0.192 | |
| EX-1-127 | EX-1-127 | 9/15/2005 | 0.498 | |
| **Area 1.8 - Fuel Oil** | | | | |
| EX-1-046 | EX-1-046 | 9/13/2005 | 2.41 | EX-1-046 was re-excavated |
| | EX-1-046R | 10/3/2005 | 1.14 | Resample of EX-1-046 |
| EX-1-047 | EX-1-047 | 9/13/2005 | 6.53 | EX-1-047 was re-excavated |
| | EX-1-047R | 10/3/2005 | 0.453 | Resample of EX-1-047 |
| EX-1-048 | EX-1-048 | 9/13/2005 | 0.848 | |
| EX-1-079 | EX-1-079 | 9/13/2005 | 0.727 | EX-1-079 was re-excavated |
| | IFD008 | 9/13/2005 | 2.97 | Duplicate of EX-1-079 |
| | EX-1-079R | 10/3/2005 | 1.48 | Resample of EX-1-079 |
| EX-1-080 | EX-1-080 | 9/13/2005 | 6.46 | EX-1-080 was re-excavated |
| | EX-1-080R | 10/3/2005 | 1.28 | Resample of EX-1-080 |
| **Area 1.10 - West of Turbine Building** | | | | |
| EX-1-001 | EX-1-001 | 6/29/2005 | 0.161 | |
| EX-1-002 | EX-1-002 | 6/29/2005 | 1.19 | EX-1-002 was re-excavated |
| | EX-1-002R | 9/14/2005 | 0.536 | Resample of EX-1-002, EX-1-002R was re-excavated |
| | EX-1-002R2 | 9/26/2005 | 1.12 | Resample of EX-1-002R |
| EX-1-129 | EX-1-129 | 6/29/2005 | 11.02 | EX-1-129 was re-excavated |
| | EX-1-129R | 9/14/2005 | 6.07 | Resample of EX-1-129, EX-1-129R was re-excavated |
| | EX-1-129R2 | 9/26/2005 | 0.780 | Resample of EX-1-129R |
| EX-1-130 | EX-1-130 | 6/29/2005 | 7.88 | EX-1-130 was re-excavated |
| | EX-1-130R | 9/14/2005 | 9.60 | Resample of EX-1-130, EX-1-130R was re-excavated |
| EX-1-130 | EX-1-130R2 | 9/26/2005 | 2.41 | Resample of EX-1-130R |
| | EX-1-131 | 6/29/2005 | 2.66 | EX-1-131 was re-excavated |

**Table 3**
**Soil PCB Closure Data for Study Area 1**
**Yankee Nuclear Power Station**
**Rowe, MA**

| Location | Sample ID | Date | Total PCBs (mg/kg) | Comments |
|---|---|---|---|---|
| EX-1-131 | EX-1-131R | 9/14/2005 | 2.30 | Resample of EX-1-131, EX-1-131R was re-excavated |
| | EX-1-131R2 | 9/26/2005 | 3.06 | Resample of EX-1-131R |
| | TFD014 | 9/26/2005 | 1.59 | Duplicate of EX-1-131R2 |
| EX-1-132 | EX-1-132 | 6/29/2005 | 0.532 | |
| EX-1-034R | EX-1-034R | 9/26/2005 | 2.16 | This is not a resample, there was no EX-1-034 |
| EX-1-024R | EX-1-024R | 9/26/2005 | 0.807 | This is not a resample, there was no EX-1-024 |
| EX-1-019 | EX-1-019 | 9/16/2005 | 1.13 | EX-1-019 was re-excavated |
| | TFD010 | 9/16/2005 | 6.82 | Duplicate of EX-1-019 |
| | EX-1-019R | 10/6/2005 | 0.324 | Resample of EX-1-019 |
| EX-1-201 | EX-1-201 | 9/27/2005 | 1.48 | |
| EX-1-202 | EX-1-202 | 9/27/2005 | 1.68 | |
| EX-1-203 | EX-1-203 | 9/27/2005 | 0.347 | |
| EX-1-204 | EX-1-204 | 9/27/2005 | 0.266 | |
| EX-1-205 | EX-1-205 | 9/27/2005 | 1.89 | |
| EX-1-206 | EX-1-206 | 9/27/2005 | 1.97 | |
| EX-1-207 | EX-1-207 | 9/27/2005 | 1.20 | |
| EX-1-208 | EX-1-208 | 9/27/2005 | 0.938 | |
| EX-1-209 | EX-1-209 | 9/27/2005 | 1.06 | |
| | TFD015 | 9/27/2005 | 1.20 | Duplicate of EX-1-209 |
| EX-1-210 | EX-1-210 | 9/27/2005 | 0.609 | |

Notes:
mg/kg = milligram per kilogram, approximately equal to parts per million (ppm)
Shaded samples were re-excavated
PCB Clean-up goal based on TSCA standard

Table 5
Soil PCB Closure Data for Study Area 3
Yankee Nuclear Power Station
Rowe, MA

| Location | Sample ID | Date | Total PCBs (mg/kg) | Comments |
|---|---|---|---|---|
| **Area 3.1 - Dioxin** | | | | |
| EX-3-001 | EX-3-001 | 9/19/2005 | 1.28 | |
| EX-3-002 | EX-3-002 | 9/20/2005 | 0.834 | |
| EX-3-003 | EX-3-003 | 9/20/2005 | 1.19 | |
| | TFD012 | 9/20/2005 | 1.55 | Duplicate of EX-3-003 |
| EX-3-004 | EX-3-004 | 9/14/2005 | 2.24 | |
| | TFD009 | 9/14/2005 | 1.65 | Duplicate of EX-3-004 |
| EX-3-005 | EX-3-005 | 9/19/2005 | 0.613 | |
| EX-3-007 | EX-3-007 | 9/14/2005 | 2.09 | |
| EX-3-008 | EX-3-008 | 9/19/2005 | 0.516 | |
| EX-3-009 | EX-3-009 | 9/19/2005 | 4.94 | EX-3-009 was re-excavated |
| | EX-3-009R | 10/5/2005 | 1.49 | Resample of EX-3-009 |
| EX-3-010 | EX-3-010 | 9/13/2005 | 0.469 | |
| EX-3-011 | EX-3-011 | 9/14/2005 | 3.02 | EX-3-011 was re-excavated |
| | EX-3-011R | 10/6/2005 | 0.262 | Resample of EX-3-011 |
| EX-3-012 | EX-3-012 | 9/13/2005 | 1.50 | |
| EX-3-013 | EX-3-013 | 9/13/2005 | 0.632 | |
| EX-3-014 | EX-3-014 | 9/13/2005 | 1.47 | |
| EX-3-015 | EX-3-015 | 9/13/2005 | 0.605 | |
| EX-3-016 | EX-3-016 | 9/14/2005 | 1.81 | |
| EX-3-017 | EX-3-017 | 9/20/2005 | 4.24 | EX-3-017 was re-excavated |
| | EX-3-017R | 10/7/2005 | 0.673 | Resample of EX-3-017 |
| EX-3-018 | EX-3-018 | 9/20/2005 | 2.95 | |
| EX-3-019 | EX-3-019 | 9/19/2005 | 0.732 | |
| EX-3-055 | EX-3-055 | 9/13/2005 | 5.50 | EX-3-055 was re-excavated |
| | EX-3-055R | 10/6/2005 | 0.256 | Resample of EX-3-055 |
| EX-3-056 | EX-3-056 | 9/13/2005 | 0.437 | |
| EX-3-057 | EX-3-057 | 9/14/2005 | 15.85 | EX-3-057 was re-excavated |
| | EX-3-057R | 10/6/2005 | 1.33 | Resample of EX-3-057 |
| **Area 3.2 - Trenches** | | | | |
| EX-3-058 | EX-3-058 | 7/15/2005 | 0.511 | |
| EX-3-059 | EX-3-059 | 7/15/2005 | 0.778 | |
| EX-3-060 | EX-3-060 | 7/20/2005 | 0.563 | |
| EX-3-061 | EX-3-061 | 7/20/2005 | 1.06 | |

Table 5
Soil PCB Closure Data for Study Area 3
Yankee Nuclear Power Station
Rowe, MA

| Location | Sample ID | Date | Total PCBs (mg/kg) | Comments |
|---|---|---|---|---|
| EX-3-062 | EX-3-062 | 7/20/2005 | 1.64 | |
| EX-3-068 | EX-3-068 | 7/26/2005 | 0.368 | |
| | TFD001 | 7/26/2005 | 0.456 | Duplicate of EX-3-068 |
| EX-3-069 | EX-3-069 | 7/26/2005 | 0.373 | |
| EX-3-070 | EX-3-070 | 7/26/2005 | 1.33 | |
| EX-3-063 | EX-3-063 | 9/27/2005 | 0.420 | |
| EX-3-064 | EX-3-064 | 9/27/2005 | 0.172 | |
| EX-3-065 | EX-3-065 | 9/27/2005 | 0.568 | |
| EX-3-066 | EX-3-066 | 9/27/2005 | 0.421 | |
| EX-3-067 | EX-3-067 | 9/27/2005 | 0.120 | |
| EX-3-027 | EX-3-027 | 9/27/2005 | 0.083 | |
| EX-3-028 | EX-3-028 | 9/27/2005 | 0.428 | |
| EX-3-048 | EX-3-048 | 9/30/2005 | 0.224 | |
| EX-3-049 | EX-3-049 | 9/30/2005 | 0.223 | |
| EX-3-050 | EX-3-050 | 9/30/2005 | 0.097 | |
| EX-3-051 | EX-3-051 | 9/30/2005 | 0.459 | |
| EX-3-045 | EX-3-045 | 9/27/2005 | | |
| EX-3-052 | EX-3-052 | 9/28/2005 | 0.583 | |
| EX-3-053 | EX-3-053 | 9/28/2005 | 1.03 | |
| EX-3-054 | EX-3-054 | 9/28/2005 | 1.25 | |
| **Area 3.3 - Moat** | | | | |
| EX-3-026 | EX-3-026 | 7/28/2005 | 0.938 | |
| EX-3-029 | EX-3-029 | 7/28/2005 | 1.14 | |
| EX-3-030 | EX-3-030 | 8/9/2005 | 0.328 | |
| EX-3-031 | EX-3-031 | 8/1/2005 | 0.134 | |
| EX-3-031-SW | EX-3-031-SW | 8/1/2005 | 0.141 | |
| EX-3-034 | EX-3-034 | 8/1/2005 | 0.118 | |
| EX-3-034-SW | EX-3-034-SW | 8/1/2005 | 0.129 | |
| EX-3-038 | EX-3-038 | 7/28/2005 | 0.314 | |
| EX-3-040 | EX-3-040 | 8/1/2005 | 0.062 | |
| EX-3-041 (8/1/05) | EX-3-041 (8/1/05) | 8/1/2005 | 0.271 | |
| EX-3-041 (8/9/05) | EX-3-041 (8/9/05) | 8/9/2005 | 0.321 | |
| EX-3-042 | EX-3-042 | 8/9/2005 | 0.286 | |
| EX-3-043 | EX-3-043 | 7/28/2005 | 0.401 | |
| EX-3-032 | EX-3-032 | 12/6/2005 | 0.187 | |
| EX-3-033 | EX-3-033 | 12/6/2005 | 0.743 | |
| EX-3-035 | EX-3-035 | 12/6/2005 | 0.180 | |

Table 5
Soil PCB Closure Data for Study Area 3
Yankee Nuclear Power Station
Rowe, MA

| Location | Sample ID | Date | Total PCBs (mg/kg) | Comments |
|---|---|---|---|---|
| EX-3-036 | EX-3-036 | 12/6/2005 | 0.107 | |
| | TFD025 | 12/6/2005 | 0.137 | Duplicate of EX-3-036 |
| EX-3-037 | EX-3-037 | 12/6/2005 | 0.636 | |
| EX-3-044 | EX-3-044 | 12/6/2005 | 0.010 | |
| EX-3-046 | EX-3-046 | 12/6/2005 | 0.108 | |
| EX-3-047 | EX-3-047 | 12/6/2005 | 0.365 | |
| EX-3-101 | EX-3-101 | 12/6/2005 | 0.194 | |
| EX-3-102 | EX-3-102 | 12/8/2005 | 0.073 | |
| EX-3-103 | EX-3-103 | 12/8/2005 | 0.031 | |
| EX-3-104 | EX-3-104 | 12/8/2005 | 0.102 | |
| **Area 3.4 - Deep Target Area** | | | | |
| EX-3-020 | EX-3-020 | 9/19/2005 | 3.55 | EX-3-020 was re-excavated |
| | EX-3-020R | 10/5/2005 | 2.49 | Resample of EX-3-020 |
| EX-3-080 | EX-3-080 | 9/9/2005 | 1.45 | |
| EX-3-081 | EX-3-081 | 9/9/2005 | 1.94 | |
| EX-3-082 | EX-3-082 | 9/9/2005 | 2.54 | EX-3-082 was excavated during activities in Area 3.1, not resampled |
| EX-3-083 | EX-3-083 | 9/9/2005 | 3.23 | EX-3-083 was excavated during activities in Area 3.1, not resampled |
| EX-3-084 | EX-3-084 | 9/9/2005 | 0.967 | |
| EX-3-085 | EX-3-085 | 9/9/2005 | 0.981 | |
| | TFD007 | 9/9/2005 | 0.959 | Duplicate of EX-3-085 |
| EX-3-086 | EX-3-086 | 9/9/2005 | 2.33 | |
| **Area 3.5 - Rad Waste Complex** | | | | |
| EX-3-090 | EX-3-090 | 10/31/2005 | 0.218 | |
| EX-3-091 | EX-3-091 | 10/31/2005 | 0.129 | |
| EX-3-092 | EX-3-092 | 10/31/2005 | 0.336 | |
| EX-3-093 | EX-3-093 | 10/31/2005 | 0.127 | |
| EX-3-094 | EX-3-094 | 10/31/2005 | 0.422 | |
| EX-3-095 | EX-3-095 | 11/11/2005 | 0.139 | |
| | TFD022 | 11/11/2005 | 0.176 | Duplicate of EX-3-095 |
| EX-3-096 | EX-3-096 | 11/11/2005 | 0.254 | |
| EX-3-097 | EX-3-097 | 11/11/2005 | 0.194 | |
| EX-3-098 | EX-3-098 | 11/11/2005 | 0.155 | |
| EX-3-099 | EX-3-099 | 11/11/2005 | 0.123 | |
| EX-3-100 | EX-3-100 | 11/11/2005 | 0.145 | |

Notes:
mg/kg = milligram per kilogram, approximately equal to parts per million (ppm)
Shaded samples were re-excavated
PCB Clean-up goal baed on TSCA standard

Table 6
Soil PCB Closure Data for Study Area 4
Yankee Nuclear Power Station
Rowe, MA

| Location | Sample ID | Date | Total PCBs (mg/kg) | Comments |
|---|---|---|---|---|
| **Area 4.1 - Trenches** | | | | |
| EX-4-001 | EX-4-001 | 6/16/2005 | 4.85 | EX-4-001 was re-excavated |
| | EX-4-001R | 7/28/2005 | ND | Resample of EX-4-001 |
| EX-4-002 | EX-4-002 | 6/16/2005 | 0.277 | |
| EX-4-003 | EX-4-003 | 6/16/2005 | 0.175 | |
| EX-4-004 | EX-4-004 | 6/16/2005 | 0.450 | |
| EX-4-005 | EX-4-005 | 6/16/2005 | 0.104 | |
| EX-4-006 | EX-4-006 | 6/17/2005 | 0.065 | |
| EX-4-007 | EX-4-007 | 6/17/2005 | 0.113 | |
| EX-4-008 | EX-4-008 | 6/17/2005 | 0.228 | |
| EX-4-009 | EX-4-009 | 6/17/2005 | 0.356 | |
| EX-4-010 | EX-4-010 | 6/20/2005 | 0.083 | |
| EX-4-011 | EX-4-011 | 6/20/2005 | 3.46 | |
| EX-4-012 | EX-4-012 | 6/20/2005 | 0.072 | |
| EX-4-013 | EX-4-013 | 6/21/2005 | 0.123 | |
| EX-4-014 | EX-4-014 | 6/21/2005 | 0.393 | |
| EX-4-015 | EX-4-015 | 6/21/2005 | 0.233 | |
| EX-4-016 | EX-4-016 | 6/21/2005 | 0.082 | |
| EX-4-017 | EX-4-017 | 6/22/2005 | 0.278 | |
| EX-4-018 | EX-4-018 | 6/22/2005 | 0.230 | |
| EX-4-019 | EX-4-019 | 6/22/2005 | 0.241 | |
| EX-4-020 | EX-4-020 | 6/22/2005 | 0.140 | |
| EX-4-021 | EX-4-021 | 6/22/2005 | 0.130 | |
| EX-4-022 | EX-4-022 | 6/23/2005 | 0.052 | |
| EX-4-023 | EX-4-023 | 6/23/2005 | 0.461 | |
| EX-4-060 | EX-4-060 | 11/3/2005 | 0.157 | |
| | TFD019 | 11/3/2005 | 0.288 | Duplicate of EX-4-060 |
| EX-4-061 | EX-4-061 | 11/3/2005 | 1.15 | |
| EX-4-063 | EX-4-063 | 11/18/2005 | 0.54 | |
| EX-4-064 | EX-4-064 | 11/18/2005 | 0.15 | |
| **Area 4.2 - Turbine Pad** | | | | |
| EX-4-55 | EX-4-55 | 7/25/2005 | 0.204 | |
| EX-4-56 | EX-4-56 | 7/25/2005 | 0.459 | |

Table 6
Soil PCB Closure Data for Study Area 4
Yankee Nuclear Power Station
Rowe, MA

| Location | Sample ID | Date | Total PCBs (mg/kg) | Comments |
|---|---|---|---|---|
| EX-4-024 | EX-4-024 | 9/22/2005 | 6.73 | EX-4-024 was re-excavated |
| | EX-4-024R | 9/30/2005 | 2.27 | Resample of EX-4-024 |
| | TFD016 | 9/30/2005 | 1.41 | Duplicate of EX-4-024R |
| EX-4-025 | EX-4-025 | 9/22/2005 | 7.90 | EX-4-025 was re-excavated |
| | EX-4-025R | 9/30/2005 | 0.650 | Resample of EX-4-025 |
| EX-4-026 | EX-4-026 | 9/22/2005 | 2.14 | |
| EX-4-027 | EX-4-027 | 9/22/2005 | 1.50 | |
| EX-4-028 | EX-4-028 | 9/22/2005 | 0.021 | |
| EX-4-029 | EX-4-029 | 9/23/2005 | 0.327 | |
| EX-4-030 | EX-4-030 | 9/23/2005 | 0.341 | |
| EX-4-031 | EX-4-031 | 9/23/2005 | 0.337 | |
| EX-4-032 | EX-4-032 | 9/23/2005 | 0.442 | EX-4-032 was re-excavated |
| | EX-4-032R | 10/3/2005 | 1.82 | Resample of EX-4-032 |
| EX-4-033 | EX-4-033 | 9/23/2005 | 0.901 | Excavated to concrete vault floor, no soil to resample |
| EX-4-034 | EX-4-034 | 9/23/2005 | 1.44 | EX-4-034 was re-excavated |
| | EX-4-034R | 10/3/2005 | 1.77 | Resample of EX-4-034 |
| EX-4-035 | EX-4-035 | 9/23/2005 | 3.75 | EX-4-035 was re-excavated |
| | EX-4-035R | 10/3/2005 | 1.79 | Resample of EX-4-035 |
| EX-4-036 | EX-4-036 | 9/23/2005 | 0.465 | |
| EX-4-037 | EX-4-037 | 9/23/2005 | 0.128 | |
| EX-4-038 | EX-4-038 | 9/23/2005 | 10.82 | EX-4-038 was re-excavated |
| | EX-4-038R | 10/3/2005 | 1.78 | Resample of EX-4-038 |
| EX-4-039 | EX-4-039 | 9/23/2005 | 1.52 | |
| EX-4-040 | EX-4-040 | 9/23/2005 | 0.691 | |
| EX-4-041 | EX-4-041 | 9/23/2005 | 0.823 | |
| EX-4-042 | EX-4-042 | 9/23/2005 | 3.53 | |
| EX-4-043 | EX-4-043 | 9/23/2005 | 4.02 | Excavated to concrete vault floor, no soil to resample |
| EX-4-044 | EX-4-044 | 9/23/2005 | 1.33 | Excavated to concrete vault floor, no soil to resample |
| EX-4-045 | EX-4-045 | 9/23/2005 | 0.142 | |
| EX-4-047 | EX-4-047 | 9/30/2005 | 0.887 | |
| EX-4-048 | EX-4-048 | 9/30/2005 | 0.167 | |
| EX-4-050 | EX-4-050 | 10/5/2005 | 0.943 | |
| | TFD017 | 10/5/2005 | 1.27 | Duplicate of EX-4-050 |
| EX-4-051 | EX-4-051 | 10/5/2005 | 1.87 | |
| EX-4-052 | EX-4-052 | 10/5/2005 | 1.05 | |

**Table 6**
**Soil PCB Closure Data for Study Area 4**
**Yankee Nuclear Power Station**
**Rowe, MA**

| Location | Sample ID | Date | Total PCBs (mg/kg) | Comments |
|---|---|---|---|---|
| EX-4-053 | EX-4-053 | 10/5/2005 | 55.50 | EX-4-053 was re-excavated |
| EX-4-062 | EX-4-062 | 11/9/2005 | 0.092 | Resample of EX-4-053 |
| | TFD021 | 11/9/2005 | 0.090 | Duplicate of EX-4-062 |
| **Area 4.3 - East Storm Drain Outfall** | | | | |
| SD600R5 | SD600R5-0003I | 8/3/2006 | 0.40 | Fifth re-excavation and resample of SD600 |

Notes:
mg/kg = milligram per kilogram, approximately equal to parts per million (ppm)
Shaded samples were re-excavated
PCB Clean-up goal based on TSCA standard

Table 7
Soil PCB Closure Data for Study Area 5
Yankee Nuclear Power Station
Rowe, MA

| Location | Sample ID | Date | Total PCBs (mg/kg) | Comments |
|---|---|---|---|---|
| 5.1-5.4 Target Areas | | | | |
| EX-5-001 | EX-5-001 | 11/7/2005 | 0.090 | Resample of SB1120 |
| EX-5-002 | EX-5-002 | 11/7/2005 | 0.357 | Resample of SB026 |
| | TFD020 | 11/7/2005 | 0.310 | Duplicate of EX-5-002 |
| EX-5-003 | EX-5-003 | 11/5/2005 | 0.126 | Resample of SB1173 |
| EX-5-004 | EX-5-004 | 11/5/2005 | 0.688 | Resample of SB1171 |

Notes:
mg/kg = milligram per kilogram, approximately equal to parts per million (ppm)
PCB Clean-up goal based on TSCA standard

Table 8
Soil PCB Closure Data for SCFA
Yankee Nuclear Power Station
Rowe, MA

| Location | Sample ID | Sample Date | Total PCBs (mg/kg) | Comments |
|---|---|---|---|---|
| **SCFA Area A** | | | | |
| SCFA-A-NW-01 | SCFA-A-NW-01 | 7/26/2005 | 0.222 | |
| SCFA-A-NW-02 | SCFA-A-NW-02 | 7/26/2005 | 0.050 | |
| SCFA-A-NW-03 | SCFA-A-NW-03 | 8/4/2005 | ND | |
| SCFA-A-EW-01 | SCFA-A-EW-01 | 7/26/2005 | 2.05 | SCFA-A-EW-01 was re-excavated |
| | SCFA-A-EW-01R | 8/4/2005 | 0.438 | Resample of SCFA-A-EW-01 |
| SCFA-A-EW-02 | SCFA-A-EW-02 | 7/26/2005 | 1.09 | SCFA-A-EW-02 was re-excavated |
| | SCFA-A-EW-02R | 8/4/2005 | 0.480 | Resample of SCFA-A-EW-02 |
| SCFA-A-SW-01 | SCFA-A-SW-01 | 7/26/2005 | 0.343 | |
| SCFA-A-SW-02 | SCFA-A-SW-02 | 7/26/2005 | 0.810 | |
| SCFA-A-SW-03 | SCFA-A-SW-03 | 8/4/2005 | 0.114 | |
| SCFA-A-WW-01 | SCFA-A-WW-01 | 7/26/2005 | 1.89 | SCFA-A-WW-01 was re-excavated |
| | SCFA-A-WW-01R | 8/4/2005 | 0.144 | Resample of SCFA-A-WW-01 |
| SCFA-A-WW-02 | SCFA-A-WW-02 | 7/26/2005 | 0.078 | |
| SCFA-A-FL-01 | SCFA-A-FL-01 | 7/26/2005 | 1.73 | SCFA-A-FL-01 was re-excavated |
| | SCFA-A-FL-01R | 8/4/2005 | ND | Resample of SCFA-A-FL-01 |
| SCFA-A-FL-02 | SCFA-A-FL-02 | 7/26/2005 | 0.152 | |
| | FD001 | 7/26/2005 | ND | Duplicate of SCFA-A-FL-02 |
| SCFA-A-FL-03 | SCFA-A-FL-03 | 7/26/2005 | 0.200 | |
| SCFA-A-FL-04 | SCFA-A-FL-04 | 7/26/2005 | 0.046 | |
| SCFA-A-FL-05 | SCFA-A-FL-05 | 8/4/2005 | 0.031 | |
| SCFA-A-FL-06 | SCFA-A-FL-06 | 8/4/2005 | 0.270 | |
| SCFA-A-FL-07 | SCFA-A-FL-07 | 8/4/2005 | 0.212 | |
| **SCFA Area B** | | | | |
| SCFA-B-FL-1 | SCFA-B-FL-1 | 8/15/2005 | 0.188 | |
| | SCFA-FD002 | 8/15/2005 | 0.210 | Duplicate of SCFA-B-FL-1 |
| SCFA-B-FL-2 | SCFA-B-FL-2 | 8/15/2005 | 0.208 | |
| SCFA-B-FL-3 | SCFA-B-FL-3 | 8/15/2005 | 0.206 | |
| SCFA-B-FL-4 | SCFA-B-FL-4 | 8/15/2005 | 0.464 | |
| SCFA-B-FL-5 | SCFA-B-FL-5 | 8/15/2005 | 0.268 | |
| SCFA-B-FL-6 | SCFA-B-FL-6 | 8/15/2005 | 0.252 | |

Table 8
Soil PCB Closure Data for SCFA
Yankee Nuclear Power Station
Rowe, MA

| Location | Sample ID | Sample Date | Total PCBs (mg/kg) | Comments |
|---|---|---|---|---|
| SCFA-B-EW-1 | SCFA-B-EW-1 | 8/15/2005 | 1.73 | SCFA-B-EW-1 was re-excavated |
| SCFA-B-FL-10 | SCFA-B-FL-10 | 10/3/2005 | 0.256 | Represents resample of area is proximity to SCFA-B-EW-1 |
| SCFA-B-EW-2 | SCFA-B-EW-2 | 8/15/2005 | 0.810 | |
| SCFA-B-NW-1 | SCFA-B-NW-1 | 8/15/2005 | 0.148 | |
| SCFA-B-NW-2 | SCFA-B-NW-2 | 8/15/2005 | 0.037 | |
| SCFA-B-WW-1 | SCFA-B-WW-1 | 8/15/2005 | 0.334 | |
| SCFA-B-FL-7 | SCFA-B-FL-7 | 10/1/2005 | 0.183 | |
| SCFA-B-FL-8 | SCFA-B-FL-8 | 10/1/2005 | 0.130 | |
| SCFA-B-FL-9 | SCFA-B-FL-9 | 10/1/2005 | 0.112 | |
| SCFA Area C | | | | |
| SCFA-C-L1-EW-1 | SCFA-C-L1-EW-1 | 8/9/2005 | 0.396 | |
| SCFA-C-L1-EW-2 | SCFA-C-L1-EW-2 | 8/9/2005 | 6.40 | SCFA-C-L1-EW-2 was re-excavated |
| | SCFA-C-L1-EW-2R | 9/30/2005 | 0.068 | SCFA-C-L1-EW-2, SCFA-C-FL-02 were resamples of SCFA-C-L1-EW-2 |
| SCFA-C-FL-02 | SCFA-C-FL-02 | 9/30/2005 | 0.262 | SCFA-C-FL-02 was re-excavated |
| | SCFA-FD003 | 9/30/2005 | 1.36 | Duplicate of SCFA-C-FL-02 |
| SCFA-C-L1-EW-3 | SCFA-C-L1-EW-3 | 8/9/2005 | 0.486 | |
| SCFA-C-L1-WW-1 | SCFA-C-L1-WW-1 | 8/10/2005 | 0.146 | |
| SCFA-C-L1-WW-2 | SCFA-C-L1-WW-2 | 8/10/2005 | 0.101 | |
| SCFA-C-L1-NW-1 | SCFA-C-L1-NW-1 | 8/10/2005 | 0.102 | SCFA-C-L1-NW-1 was re-excavated |
| | SCFA-FD001 | 8/10/2005 | 1.11 | Duplicate of SCFA-C-L1-NW-1 |
| SCFA-C-L1-NW-2 | SCFA-C-L1-NW-2 | 8/10/2005 | 0.224 | |
| SCFA-C-L1-NW-3 | SCFA-C-L1-NW-3 | 8/10/2005 | 0.155 | |
| SCFA-C-L1-NW-4 | SCFA-C-L1-NW-4 | 8/10/2005 | 0.055 | |
| SCFA-C-L1-NW-5 | SCFA-C-L1-NW-5 | 8/10/2005 | 10.1 | SCFA-C-L1-NW-5 was re-excavated |
| SCFA-C-L1-FL-01 | SCFA-C-L1-FL-01 | 9/30/2005 | 0.347 | Resample of SCFA-C-L1-NW-5 |
| SCFA-C-FL-03 | SCFA-C-FL-03 | 10/11/2005 | 0.084 | |
| SCFA-C-L1-SW-01 | SCFA-C-L1-SW-01 | 10/11/2005 | 0.428 | |
| SCFA-C-L1-SW-02 | SCFA-C-L1-SW-02 | 10/11/2005 | 0.122 | |
| SCFA-C-L2-NW-01 | SCFA-C-L2-NW-01 | 10/11/2005 | ND | |
| | SCFA-FD004 | 10/11/2005 | ND | Duplicate of SCFA-C-L2-NW-01 |
| SCFA-C-L2-NW-02 | SCFA-C-L2-NW-02 | 10/11/2005 | ND | |
| SCFA-C-L2-NW-03 | SCFA-C-L2-NW-03 | 10/11/2005 | ND | |
| SCFA-C-L2-NW-04 | SCFA-C-L2-NW-04 | 10/11/2005 | ND | |

Table 8
Soil PCB Closure Data for SCFA
Yankee Nuclear Power Station
Rowe, MA

| Location | Sample ID | Sample Date | Total PCBs (mg/kg) | Comments |
|---|---|---|---|---|
| SCFA-C-L2-NW-05 | SCFA-C-L2-NW-05 | 10/11/2005 | ND | |
| SCFA-C-L2-SW-01 | SCFA-C-L2-SW-01 | 10/11/2005 | 0.382 | |
| SCFA-C-L2-SW-02 | SCFA-C-L2-SW-02 | 10/11/2005 | 0.363 | |
| SCFA-C-L3-EW-01 | SCFA-C-L3-EW-01 | 10/11/2005 | 0.055 | |
| SCFA-C-L3-EW-02 | SCFA-C-L3-EW-02 | 10/11/2005 | 0.021 | Re-excavated during activities to target adjacent locations |
| | SCFA-C-L3-EW-02R | 10/19/2005 | ND | Resample of SCFA-C-L1-EW-02R |
| SCFA-C-L3-EW-03 | SCFA-C-L3-EW-03 | 10/11/2005 | 0.026 | |
| SCFA-C-L3-NW-01 | SCFA-C-L3-NW-01 | 10/19/2005 | 0.041 | |
| SCFA-C-L3-NW-02 | SCFA-C-L3-NW-02 | 10/19/2005 | ND | |
| SCFA-C-L3-NW-03 | SCFA-C-L3-NW-03 | 10/19/2005 | ND | |
| | SCFA-FD005 | 10/19/2005 | ND | Duplicate of SCFA-D-L3-NW-03 |
| SCFA-C-L2-SW-03 | SCFA-C-L2-SW-03 | 10/19/2005 | 1.14 | SCFA-C-L2-SW-03 was re-excavated |
| | SCFA-C-L2-SW-03R | 10/28/2005 | 1.85 | SCFA-C-L2-SW-03R was re-excavated |
| | SCFA-C-L2-SW-03-2R | 11/11/2005 | 1.33 | Resample of SCFA-C-L2-SW-03R |
| SCFA-C-L2-SW-04 | SCFA-C-L2-SW-04 | 10/19/2005 | 0.749 | Re-excavated during activities to target adjacent locations |
| SCFA-C-L1-SW-03 | SCFA-C-L1-SW-03 | 10/19/2005 | 0.471 | Re-excavated during activities to target adjacent locations |
| SCFA-C-L1-SW-04 | SCFA-C-L1-SW-04 | 10/19/2005 | 1.23 | SCFA-C-L1-SW-04 was re-excavated |
| | SCFA-C-L1-SW-04R | 10/28/2005 | 0.282 | SCFA-C-L1-SW-04R was re-excavated |
| | SCFA-C-L2-SW-04R | 11/11/2005 | 3.51 | Resample of SCFA-C-L1-SW-04R |
| SCFA-C-FL-04 | SCFA-C-FL-04 | 10/19/2005 | 0.365 | Re-excavated during activities to target adjacent locations |
| SCFA-C-L3-WW-01 | SCFA-C-L3-WW-01 | 10/19/2005 | 2.02 | Re-excavated and resampled by SCFA-C-L3-WW-01 on 10/28/2006 |
| SCFA-C-L3-WW-02 | SCFA-C-L3-WW-02 | 10/19/2005 | 2.66 | Re-excavated and resampled by SCFA-C-L3-WW-02 on 10/28/2006 |
| SCFA-C-L2-WW-01 | SCFA-C-L2-WW-01 | 10/19/2005 | 3.71 | Re-excavated and resampled by SCFA-C-L2-WW-01 on 10/28/2006 |
| SCFA-C-L2-WW-02 | SCFA-C-L2-WW-02 | 10/19/2005 | 0.332 | Re-excavated and resampled by SCFA-C-L2-WW-02 on 10/28/2006 |
| SCFA-C-L1-WW-01 | SCFA-C-L1-WW-01 | 10/19/2005 | 3.45 | Re-excavated and resampled by SCFA-C-L1-WW-01 on 10/28/2006 |
| SCFA-C-L1-WW-02 | SCFA-C-L1-WW-02 | 10/19/2005 | 1.96 | Re-excavated and resampled by SCFA-C-L1-WW-02 on 10/28/2006 |
| SCFA-C-FL-04 | SCFA-C-FL-04 | 10/24/2005 | 0.237 | |
| SCFA-C-FL-05 | SCFA-C-FL-05 | 10/24/2005 | 0.635 | |
| SCFA-C-FL-06 | SCFA-C-FL-06 | 10/24/2005 | 0.928 | |
| SCFA-C-FL-07 | SCFA-C-FL-07 | 10/24/2005 | ND | |
| SCFA-C-FL-08 | SCFA-C-FL-08 | 10/24/2005 | 0.190 | |
| SCFA-C-FL-09 | SCFA-C-FL-09 | 10/24/2005 | 0.335 | |
| SCFA-C-FL-10 | SCFA-C-FL-10 | 10/24/2005 | 0.768 | |
| SCFA-C-FL-11 | SCFA-C-FL-11 | 10/24/2005 | 0.275 | |
| | SCFA-FD006 | 10/24/2005 | 0.553 | Duplicate of SCFA-C-FL-11 |
| SCFA-C-L3-WW-01R | SCFA-C-L3-WW-01R | 10/28/2005 | 30.6 | SCFA-C-L3-WW-01R was re-excavated |

Table 8
Soil PCB Closure Data for SCFA
Yankee Nuclear Power Station
Rowe, MA

| Location | Sample ID | Sample Date | Total PCBs (mg/kg) | Comments |
|---|---|---|---|---|
| SCFA-C-L3-WW-02R | SCFA-C-L3-WW-02R | 10/28/2005 | 5.17 | SCFA-C-L3-WW-02R was re-excavated |
| SCFA-C-L3-WW-02R | SCFA-C-L3-WW-02R | 11/11/2005 | 1.20 | Resample of SCFA-C-L3-WW-01R |
| SCFA-C-L3-WW-01R | SCFA-C-L3-WW-01R | 11/11/2005 | 3.21 | Resample of SCFA-C-L3-WW-02R |
| SCFA-C-L2-WW-01R | SCFA-C-L2-WW-01R | 10/28/2005 | 4.65 | SCFA-C-L2-WW-01R was re-excavated |
| SCFA-C-L2-WW-02R | SCFA-C-L2-WW-02R | 10/28/2005 | 34.8 | SCFA-C-L2-WW-02R was re-excavated |
| SCFA-C-L2-WW-02R | SCFA-C-L2-WW-02R | 11/11/2005 | 0.325 | Resample of SCFA-C-L2-WW-01R |
| SCFA-C-L2-WW-01R | SCFA-C-L2-WW-01R | 11/11/2005 | 4.72 | Resample of SCFA-C-L2-WW-02R |
| SCFA-C-L1-WW-01R | SCFA-C-L1-WW-01R | 10/28/2005 | 0.981 | |
| SCFA-C-L1-WW-02R | SCFA-C-L1-WW-02R | 10/28/2005 | 0.250 | |
| SCFA-C-L2-WWW-01 | SCFA-C-L2-WWW-01 | 10/28/2005 | 0.779 | |
| SCFA-C-L3-WWW-01 | SCFA-C-L3-WWW-01 | 10/28/2005 | 0.287 | |
| SCFA-C-L3-WW-03 | SCFA-C-L3-WW-03 | 10/28/2005 | 0.416 | |
| SCFA-C-L3-WW-04 | SCFA-C-L3-WW-04 | 10/28/2005 | 0.054 | |
| SCFA-C-L2-WW-03 | SCFA-C-L2-WW-03 | 10/28/2005 | 0.491 | |
| SCFA-C-L2-WW-04 | SCFA-C-L2-WW-04 | 10/28/2005 | 0.309 | |
| SCFA-C-L1-WW-03 | SCFA-C-L1-WW-03 | 10/28/2005 | 0.111 | |
| | SCFA-FD007 | 10/28/2005 | 0.138 | Duplicate of SCFA-C-L1-WW-03 |
| SCFA-C-L1-WW-04 | SCFA-C-L1-WW-04 | 10/28/2005 | 0.246 | |
| SCFA-C-L4-NW-02 | SCFA-C-L4-NW-02 | 10/28/2005 | ND | |
| SCFA-C-L4-NW-01 | SCFA-C-L4-NW-01 | 10/28/2005 | 0.323 | |
| SCFA-C-L3-NW-04 | SCFA-C-L3-NW-04 | 10/28/2005 | ND | |
| | SCFA-FD008 | 10/28/2005 | ND | Duplicate of SCFA-C-L3-NW-04 |
| SCFA-C-L3-NW-05 | SCFA-C-L3-NW-05 | 10/28/2005 | ND | |
| SCFA-C-FL-12 | SCFA-C-FL-12 | 10/28/2005 | 0.101 | |
| SCFA-C-FL-13 | SCFA-C-FL-13 | 10/28/2005 | 1.10 | SCFA-C-FL-13 was re-excavated |
| | SCFA-C-FL-13R | 11/11/2005 | 1.13 | Resample of SCFA-C-FL-13 |
| SCFA-C-L1-SW-05 | SCFA-C-L1-SW-05 | 10/28/2005 | 0.292 | |
| SCFA-C-FL-14 | SCFA-C-FL-14 | 10/28/2005 | 0.967 | SCFA-C-FL-14 was re-excavated |
| SCFA-C-FL-29 | SCFA-C-FL-29 | 11/11/2005 | 1.26 | Resample of SCFA-C-FL-14 |
| SCFA-C-L1-SW-06 | SCFA-C-L1-SW-06 | 10/28/2005 | 0.359 | |
| SCFA-C-L1-SW-07 | SCFA-C-L1-SW-07 | 10/28/2005 | 1.05 | SCFA-C-L1-SW-07 was re-excavated |
| | SCFA-C-L1--SW-07R | 11/11/2005 | 1.30 | Resample of SCFA-C-L1-SW-07 |
| SCFA-C-FL-28 | SCFA-C-FL-28 | 11/11/2005 | 0.632 | Resample of floor where SCFA-C-L1-SW-07 was collected |
| SCFA-C-FL-15 | SCFA-C-FL-15 | 10/28/2005 | 0.924 | |
| SCFA-C-FL-16 | SCFA-C-FL-16 | 10/28/2005 | 0.224 | |

Table 8
Soil PCB Closure Data for SCFA
Yankee Nuclear Power Station
Rowe, MA

| Location | Sample ID | Sample Date | Total PCBs (mg/kg) | Comments |
|---|---|---|---|---|
| SCFA-C-FL-17 | SCFA-C-FL-17 | 10/28/2005 | 4.99 | SCFA-C-FL-17 was re-excavated |
| SCFA-C-FL-17R | SCFA-C-FL-17R | 11/11/2005 | 0.256 | SCFA-C-FL-17R samples are resamples of SCFA-C-FL-17 |
| SCFA-C-NW/FL 17R | SCFA-C-NW/FL 17R | 11/11/2005 | 0.040 | SCFA-C-FL-17R samples are resamples of SCFA-C-FL-17 |
| SCFA-C-WW/FL 17R | SCFA-C-WW/FL 17R | 11/11/2005 | 0.039 | SCFA-C-FL-17R samples are resamples of SCFA-C-FL-17 |
| SCFA-C-SW/FL 17R | SCFA-C-SW/FL 17R | 11/11/2005 | 0.008 | SCFA-C-FL-17R samples are resamples of SCFA-C-FL-17 |
| SCFA-C-FL-18 | SCFA-C-FL-18 | 10/28/2005 | 0.451 | |
| SCFA-C-FL-19 | SCFA-C-FL-19 | 10/28/2005 | 0.472 | |
| SCFA-C-FL-20 | SCFA-C-FL-20 | 10/28/2005 | 1.07 | SCFA-C-FL-20 was re-excavated |
| | SCFA-C-FL-20R | 11/11/2005 | 1.12 | Resample of SCFA-C-FL-20 |
| SCFA-C-FL-21 | SCFA-C-FL-21 | 10/28/2005 | 1.38 | SCFA-C-FL-21 was re-excavated |
| | SCFA-C-FL-21R | 11/11/2005 | 2.19 | Resample of SCFA-C-FL-21 |
| SCFA-C-FL-22 | SCFA-C-FL-22 | 10/28/2005 | 3.57 | SCFA-C-FL-22 was re-excavated |
| | SCFA-C-FL-22R | 11/11/2005 | 2.71 | Resample of SCFA-C-FL-22 |
| SCFA-C-L1-SW-08 | SCFA-C-L1-SW-08 | 11/5/2005 | 3.20 | |
| SCFA-C-L1-SW-09 | SCFA-C-L1-SW-09 | 11/5/2005 | 2.74 | |
| SCFA-C-L1-SW-10 | SCFA-C-L1-SW-10 | 11/5/2005 | 0.576 | |
| SCFA-C-L1-SW-11 | SCFA-C-L1-SW-11 | 11/5/2005 | 0.684 | |
| SCFA-C-L1-SW-12 | SCFA-C-L1-SW-12 | 11/5/2005 | 0.844 | |
| SCFA-C-L1-SW-13 | SCFA-C-L1-SW-13 | 11/5/2005 | 1.66 | |
| SCFA-C-L3-WW-05 | SCFA-C-L3-WW-05 | 11/5/2005 | 2.08 | SCFA-C-L3-WW-05 was re-excavated, resampled on 11/11/2005 |
| SCFA-C-L3-WW-06 | SCFA-C-L3-WW-06 | 11/5/2005 | 2.22 | SCFA-C-L3-WW-06 was re-excavated, resampled on 11/11/2005 |
| SCFA-C-L3-WW-07 | SCFA-C-L3-WW-07 | 11/5/2005 | 4.58 | SCFA-C-L3-WW-07 was re-excavated, resampled on 11/11/2005 |
| SCFA-C-L1-WW-07 | SCFA-C-L1-WW-07 | 11/5/2005 | 6.92 | SCFA-C-L1-WW-07 was re-excavated, resampled on 11/11/2005 |
| SCFA-C-L1-WW-08 | SCFA-C-L1-WW-08 | 11/5/2005 | 3.99 | SCFA-C-L1-WW-08 was re-excavated, resampled on 11/11/2005 |
| | SCFA-FD010 | 11/5/2005 | 2.17 | Duplicate of SCFA-C-L1-WW-08 |
| SCFA-C-L1-WW-09 | SCFA-C-L1-WW-09 | 11/5/2005 | 0.904 | SCFA-C-L1-WW-09 was re-excavated, resampled on 11/11/2005 |
| SCFA-C-L3-WW-08 | SCFA-C-L3-WW-08 | 11/5/2005 | 2.35 | SCFA-C-L3-WW-08 was re-excavated, resampled on 11/11/2005 |
| SCFA-C-L3-WW-09 | SCFA-C-L3-WW-09 | 11/5/2005 | 17.8 | SCFA-C-L3-WW-09 was re-excavated, resampled on 11/11/2005 |
| SCFA-C-L2-WW-05 | SCFA-C-L2-WW-05 | 11/5/2005 | 0.929 | SCFA-C-L2-WW-05 was re-excavated, resampled on 11/11/2005 |
| SCFA-C-L2-WW-06 | SCFA-C-L2-WW-06 | 11/5/2005 | 3.73 | SCFA-C-L2-WW-06 was re-excavated, resampled on 11/11/2005 |
| SCFA-C-L2-WW-07 | SCFA-C-L2-WW-07 | 11/5/2005 | 13.3 | SCFA-C-L2-WW-07 was re-excavated, resampled on 11/11/2005 |
| SCFA-C-L2-WW-08 | SCFA-C-L2-WW-08 | 11/5/2005 | 17.8 | SCFA-C-L2-WW-08 was re-excavated, resampled on 11/11/2005 |
| SCFA-C-L2-WW-09 | SCFA-C-L2-WW-09 | 11/5/2005 | 6.45 | SCFA-C-L2-WW-09 was re-excavated, resampled on 11/11/2005 |
| SCFA-C-L1-WW-05 | SCFA-C-L1-WW-05 | 11/5/2005 | 0.988 | SCFA-C-L1-WW-05 was re-excavated, resampled on 11/11/2005 |
| SCFA-C-L1-WW-06 | SCFA-C-L1-WW-06 | 11/5/2005 | 8.27 | SCFA-C-L1-WW-06 was re-excavated, resampled on 11/11/2005 |

**Table 8**
**Soil PCB Closure Data for SCFA**
**Yankee Nuclear Power Station**
**Rowe, MA**

| Location | Sample ID | Sample Date | Total PCBs (mg/kg) | Comments |
|---|---|---|---|---|
| SCFA-C-L3-WW-05R | SCFA-C-L3-WW-05R | 11/11/2005 | 5.19 | Resample of SCFA-C-L3-WW-05 |
| SCFA-C-L2-WW-05R | SCFA-C-L2-WW-05R | 11/11/2005 | 3.59 | Resample of SCFA-C-L2-WW-05 |
| SCFA-C-L3-WW-06R | SCFA-C-L3-WW-06R | 11/11/2005 | 1.59 | Resample of SCFA-C-L3-WW-06 |
| SCFA-C-L2-WW-08R | SCFA-C-L2-WW-08R | 11/11/2005 | 4.18 | SCFA-C-L2-WW-08R was re-excavated, area resampled on 4/19/2006 |
| | SCFA-FD011 | 11/11/2005 | 3.22 | Duplicate of SCFA-C-L2-WW-08R |
| SCFA-C-L2-WW-09R | SCFA-C-L2-WW-09R | 11/11/2005 | 29.9 | SCFA-C-L2-WW-09R was re-excavated, area resampled on 4/19/2006 |
| SCFA-C-L1-WW-05R | SCFA-C-L1-WW-05R | 11/11/2005 | 6.30 | SCFA-C-L1-WW-05R was re-excavated, area resampled on 4/19/2006 |
| SCFA-C-L1-WW-06R | SCFA-C-L1-WW-06R | 11/11/2005 | 0.947 | SCFA-C-L1-WW-06R was re-excavated, area resampled on 4/19/2006 |
| SCFA-C-L1-WW-07R | SCFA-C-L1-WW-07R | 11/11/2005 | 32.5 | SCFA-C-L1-WW-07R was re-excavated, area resampled on 4/19/2006 |
| SCFA-C-L1-WW-08R | SCFA-C-L1-WW-08R | 11/11/2005 | 2.37 | SCFA-C-L1-WW-08R was re-excavated, area resampled on 4/19/2006 |
| SCFA-C-L1-WW-09R | SCFA-C-L1-WW-09R | 11/11/2005 | 25.3 | SCFA-C-L1-WW-09R was re-excavated, area resampled on 4/19/2006 |
| SCFA-C-L3-WW-07R | SCFA-C-L3-WW-07R | 11/11/2005 | 6.45 | Resample of SCFA-C-L3-WW-07 |
| SCFA-C-L3-WW-08R | SCFA-C-L3-WW-08R | 11/11/2005 | 1.82 | Resample of SCFA-C-L3-WW-08 |
| SCFA-C-L2-WW-06R | SCFA-C-L2-WW-06R | 11/11/2005 | 1.30 | SCFA-C-L2-WW-06R was re-excavated |
| SCFA-C-L2-WW-07R | SCFA-C-L2-WW-07R | 11/11/2005 | 8.43 | SCFA-C-L2-WW-07R was re-excavated |
| SCFA-C-L3-WW-09R | SCFA-C-L3-WW-09R | 11/11/2005 | 1.03 | Resample of SCFA-C-L3-WW-09 |
| | SCFA-FD012 | 11/11/2005 | 4.18 | Duplicate of SCFA-C-L3-WW-09R |
| SCFA-C-V-SF-01 | SCFA-C-V-SF-01 | 4/19/2006 | 0.653 | Resample of area sampled on 11/11/2006 |
| SCFA-C-V-SF-02 | SCFA-C-V-SF-02 | 4/19/2006 | 1.41 | Resample of area sampled on 11/11/2006 |
| SCFA-C-V-SF-03 | SCFA-C-V-SF-03 | 4/19/2006 | 1.07 | Resample of area sampled on 11/11/2006 |
| SCFA-C-V-SF-04 | SCFA-C-V-SF-04 | 4/19/2006 | 1.58 | Resample of area sampled on 11/11/2006 |
| SCFA-C-V-SF-05 | SCFA-C-V-SF-05 | 4/19/2006 | 1.27 | Resample of area sampled on 11/11/2006 |
| SCFA-C-V-SF-06 | SCFA-C-V-SF-06 | 4/19/2006 | 1.41 | Resample of area sampled on 11/11/2006 |
| SCFA-C-V-SF-07 | SCFA-C-V-SF-07 | 4/19/2006 | 2.76 | Resample of area sampled on 11/11/2006 |
| SCFA-C-V-SF-08 | SCFA-C-V-SF-08 | 4/19/2006 | 1.11 | Resample of area sampled on 11/11/2006 |
| | SCFA FD015 | 4/19/2006 | 1.28 | Duplicate of SCFA-C-V-SF-08 |
| SCFA-C-V-SF-09 | SCFA-C-V-SF-09 | 4/19/2006 | 1.98 | Resample of area sampled on 11/11/2006 |
| SCFA-C-V-SF-10 | SCFA-C-V-SF-10 | 4/19/2006 | 1.06 | Resample of area sampled on 11/11/2006 |
| SCFA-C-SF-FL-01 | SCFA-C-SF-FL-01 | 4/19/2006 | 0.463 | Resample of area sampled on 11/11/2006 |
| SCFA-C-SF-FL-02 | SCFA-C-SF-FL-02 | 4/19/2006 | 0.739 | Resample of area sampled on 11/11/2006 |
| SCFA-C-SF-FL-03 | SCFA-C-SF-FL-03 | 4/19/2006 | 6.37 | Resample of area sampled on 11/11/2006 |
| SCFA-C-SF-FL-04 | SCFA-C-SF-FL-04 | 4/19/2006 | 2.21 | Resample of area sampled on 11/11/2006 |
| SCFA-C-SF-EW-01 | SCFA-C-SF-EW-01 | 4/19/2006 | 0.718 | Resample of area sampled on 11/11/2006 |
| SCFA-C-SF-EW-02 | SCFA-C-SF-EW-02 | 4/19/2006 | 0.557 | Resample of area sampled on 11/11/2006 |

Table 8
Soil PCB Closure Data for SCFA
Yankee Nuclear Power Station
Rowe, MA

| Location | Sample ID | Sample Date | Total PCBs (mg/kg) | Comments |
|---|---|---|---|---|
| SCFA Area D | | | | |
| EX-401-0003I | EX-401-0003I | 7/8/2005 | 0.334 | EX-401-003I was re-excavated |
| EX-402-0003I | EX-402-0003I | 7/8/2005 | 1.24 | EX-402-003I was re-excavated |
| EX-403-0003I | EX-403-0003I | 7/8/2005 | 0.650 | |
| EX-405-0003I | EX-405-0003I | 7/8/2005 | 0.625 | EX-405-003I was re-excavated |
| | FD001 | 7/8/2005 | 1.69 | Duplicate of EX-405-003I |
| EX-406-0003I | EX-406-0003I | 7/8/2005 | 4.04 | EX-406-003I was re-excavated |
| EX-408-0003I | EX-408-0003I | 7/8/2005 | 0.975 | EX-408-003I was re-excavated |
| SCFA-R-FL-01 | SCFA-R-FL-01 | 7/25/2005 | 0.377 | Represents resample of area in proximity to EX-405-003I, EX-406-003I, EX-408-003I |
| SCFA-R-FL-02 | SCFA-R-FL-02 | 7/25/2005 | 0.200 | Represents resample of area in proximity to EX-401-003I |
| SCFA-R-FL-03 | SCFA-R-FL-03 | 9/29/2005 | ND | Represents resample of area in proximity to EX-402-003I |
| EX-409-0003I | EX-409-0003I | 7/14/2005 | 0.076 | |
| EX-410-0003I | EX-410-0003I | 7/14/2005 | 0.164 | |
| EX-411-0003I | EX-411-0003I | 7/14/2005 | 0.049 | |
| EX-413-0003I | EX-413-0003I | 7/21/2005 | 1.07 | Decision of "No" by Ken Dow |
| SCFA-R-SW-01 | SCFA-R-SW-01 | 7/25/2005 | 0.022 | |
| SCFA-R-SW-02 | SCFA-R-SW-02 | 7/25/2005 | 5.97 | SCFA-R-SW-02 was re-excavated |
| | SCFA-R-SW-02R | 9/29/2005 | 0.184 | Resample of SCFA-R-02 |
| SCFA-R-SW-03 | SCFA-R-SW-03 | 10/6/2005 | 0.178 | |
| SCFA-R-SW-04 | SCFA-R-SW-04 | 10/6/2005 | 1.64 | SCFA-R-SW-04 was re-excavated |
| | SCFA-R-SW-04R | 10/19/2005 | 0.342 | Resample of SCFA-R-04 |
| SCFA-R-FL-04 | SCFA-R-FL-04 | 10/19/2005 | 0.569 | |
| SCFA-R-SW-05 | SCFA-R-SW-05 | 10/19/2005 | 39.5 | SCFA-R-SW-05 was re-excavated |
| | SCFA-R-SW-05R | 10/29/2005 | 2.49 | Resample of SCFA-R-SW-05, SCFA-R-SW-05R was re-excavated |
| SCFA-D-FL-07 | SCFA-D-FL-07 | 11/15/2005 | 0.702 | Represents resample of area in proximity to SCFA-R-SW-05R |
| SCFA-D-L2-EW-04 | SCFA-D-L2-EW-04 | 11/15/2005 | 0.231 | Represents resample of area in proximity to SCFA-R-SW-05R |
| SCFA-D-FL-01 | SCFA-D-FL-01 | 11/15/2005 | 2.10 | |
| | SCFA-FD013 | 11/15/2005 | 0.986 | Duplicate of SCFA-D-FL-01 |
| SCFA-D-FL-02 | SCFA-D-FL-02 | 11/15/2005 | 2.55 | |
| SCFA-D-FL-03 | SCFA-D-FL-03 | 11/15/2005 | 4.02 | |

Table 8
Soil PCB Closure Data for SCFA
Yankee Nuclear Power Station
Rowe, MA

| Location | Sample ID | Sample Date | Total PCBs (mg/kg) | Comments |
|---|---|---|---|---|
| SCFA-D-FL-04 | SCFA-D-FL-04 | 11/15/2005 | 2.27 | |
| SCFA-D-FL-05 | SCFA-D-FL-05 | 11/15/2005 | 2.15 | |
| SCFA-D-FL-06 | SCFA-D-FL-06 | 11/15/2005 | 0.972 | |
| SCFA-D-L2-WW-01 | SCFA-D-L2-WW-01 | 11/15/2005 | 2.12 | |
| SCFA-D-L2-WW-02 | SCFA-D-L2-WW-02 | 11/15/2005 | 1.98 | |
| SCFA-D-L1-WW-01 | SCFA-D-L1-WW-01 | 11/15/2005 | 1.19 | |
| SCFA-D-L1-WW-02 | SCFA-D-L1-WW-02 | 11/15/2005 | 2.03 | |
| SCFA-D-L2-SW-01 | SCFA-D-L2-SW-01 | 11/15/2005 | 3.21 | SCFA-D-L2-SW-01 was re-excavated |
| SCFA-D-L2-SW-02 | SCFA-D-L2-SW-02 | 11/15/2005 | 65.8 | SCFA-D-L2-SW-02 was re-excavated |
| SCFA-D-L1-SW-01 | SCFA-D-L1-SW-01 | 11/15/2005 | 7.46 | SCFA-D-L1-SW-01 was re-excavated |
| SCFA-D-L1-SW-02 | SCFA-D-L1-SW-02 | 11/15/2005 | 4.45 | SCFA-D-L1-SW-02 was re-excavated |
| SCFA-D-L2-SW-01R | SCFA-D-L2-SW-01R | 4/13/2006 | 3.48 | SCFA-D-L2-SW-01R and SCFA-D-L2-SW-02R represent the resample of the wall and SCFA-D-FL-08, SCFA-D-FL-09, and SCFA-D-FL-10 represent the resample of the floor from the area were SCFA-D-L2-SW-01, SCFA-D-L2-SW-02, SCFA-D-L1-SW-01, and SCFA-D-L1-SW-02 were collected. |
| SCFA-D-L2-SW-02R | SCFA-D-L2-SW-02R | 4/13/2006 | 0.288 | |
| SCFA-D-FL-08 | SCFA-D-FL-08 | 4/13/2006 | 0.541 | |
| SCFA-D-FL-09 | SCFA-D-FL-09 | 4/13/2006 | 1.83 | |
| SCFA-D-FL-10 | SCFA-D-FL-10 | 4/13/2006 | 4.42 | SCFA-D-FL-10 was re-excavated |
| | SCFA-D-FL-10R | 5/3/2006 | 0.204 | Resample of SCFA-D-FL-10 |
| SCFA-D-L2-EW-01 | SCFA-D-L2-EW-01 | 11/15/2005 | 0.782 | |
| SCFA-D-L2-EW-02 | SCFA-D-L2-EW-02 | 11/15/2005 | 0.530 | |
| SCFA-D-L2-EW-03 | SCFA-D-L2-EW-03 | 11/15/2005 | 0.431 | |
| SCFA-D-L1-EW-01 | SCFA-D-L1-EW-01 | 11/15/2005 | 1.08 | |
| | SCFA-FD014 | 11/15/2005 | 2.57 | Duplicate of SCFA-D-L1-EW-01 |
| SCFA-D-L1-EW-02 | SCFA-D-L1-EW-02 | 11/15/2005 | 0.870 | |
| SCFA-D-L1-EW-03 | SCFA-D-L1-EW-03 | 11/15/2005 | 0.198 | |
| SCFA-D-L1-EW-04 | SCFA-D-L1-EW-04 | 11/15/2005 | 0.162 | |
| SCFA-D-L2-WW-03 | SCFA-D-L2-WW-03 | 4/13/2006 | 37.6 | SCFA-D-L2-WW-03 was re-excavated |
| SCFA-D-FI-11 | SCFA-D-FI-11 | 4/26/2006 | 0.696 | Resample of floor where SCFA-D-L2-WW-03 was collected |
| SCFA-D-FL-12 | SCFA-D-FL-12 | 5/3/2006 | 0.327 | |
| SCFA-D-FL-13 | SCFA-D-FL-13 | 5/3/2006 | 0.254 | |
| SCFA-D-SW-03 | SCFA-D-SW-03 | 5/3/2006 | 3.92 | |
| SCFA-D-SW-04 | SCFA-D-SW-04 | 5/3/2006 | 0.253 | |

**Table 8**
**Soil PCB Closure Data for SCFA**
**Yankee Nuclear Power Station**
**Rowe, MA**

| Location | Sample ID | Sample Date | Total PCBs (mg/kg) | Comments |
|---|---|---|---|---|
| SCFA-D-L2-WW-04 | SCFA-D-L2-WW-04 | 5/3/2006 | 0.200 | |
| SCFA-D-L2-WW-05 | SCFA-D-L2-WW-05 | 5/3/2006 | 1.03 | |
| **SCFA Final Grade** | | | | |
| SCFA-FG-0001 | SCFA-FG-0001 | 8/14/2006 | 0.686 | Sample from surficial soil of SCFA after final grading |
| SCFA-FG-0001R | SCFA-FG-0001R | 8/18/2006 | 0.322 | Sample from surficial soil of SCFA after final grading |
| SCFA-FG-0002 | SCFA-FG-0002 | 8/14/2006 | 0.122 | Sample from surficial soil of SCFA after final grading |
| SCFA-FG-0002R | SCFA-FG-0002R | 8/18/2006 | 0.616 | Sample from surficial soil of SCFA after final grading |
| SCFA-FG-0003 | SCFA-FG-0003 | 8/14/2006 | 0.101 | Sample from surficial soil of SCFA after final grading |
| SCFA-FG-0004 | SCFA-FG-0004 | 8/14/2006 | 0.262 | Sample from surficial soil of SCFA after final grading |
| | SCFA-FD016-081406 | 8/14/2006 | 0.150 | Duplicate of SCFA-FG-0004 |
| SCFA-FG-0005 | SCFA-FG-0005 | 8/14/2006 | 0.253 | Sample from surficial soil of SCFA after final grading |
| SCFA-FG-0006 | SCFA-FG-0006 | 8/14/2006 | 0.183 | Sample from surficial soil of SCFA after final grading |
| SCFA-FG-0007 | SCFA-FG-0007 | 8/14/2006 | 0.249 | Sample from surficial soil of SCFA after final grading |
| SCFA-FG-0008 | SCFA-FG-0008 | 8/14/2006 | 0.031 | Sample from surficial soil of SCFA after final grading |
| SCFA-FG-0009 | SCFA-FG-0009 | 8/14/2006 | 0.363 | Sample from surficial soil of SCFA after final grading |
| SCFA-FG-0010 | SCFA-FG-0010 | 8/14/2006 | 0.265 | Sample from surficial soil of SCFA after final grading |

Notes:
Shaded samples were re-excavated
mg/kg = milligram per kilogram, approximately equal to parts per million (ppm)
ND = Not Detected

**Table 9**
**Soil PCB Closure Data for Mid-Lot West Debris Pile Area**
**Yankee Nuclear Power Station**
**Rowe, MA**

| Station<br>Sample ID<br>Date Sampled | Clean-up Goal | EX-Westmidlot-01<br>EX-Westmidlot-01<br>5/24/2006 | EX-Westmidlot-02<br>EX-Westmidlot-02<br>5/24/2006 | EX-Westmidlot-03<br>EX-Westmidlot-03<br>5/24/2006 | EX-Westmidlot-04<br>EX-Westmidlot-04<br>5/24/2006 |
|---|---|---|---|---|---|
| ***Polychlorinated Biphenyls (PCBs) (mg/kg)*** | | | | | |
| Aroclor-1254 | | 0.164 | 0.174 | 0.118 | 0.0529 |
| Aroclor-1260 | | 0.0845 | 0.0466 | 0.0375 | 0.0185 |
| Total PCBs | 1 | 0.2485 | 0.2206 | 0.1555 | 0.0714 |

Notes:
Summary of detections only
mg/kg = milligram per kilogram
PCB Clean-up goal based on TSCA standard

**Table 10**
**Soil PCB Closure Data for Painted Blocks along Deerfield River**
**Yankee Nuclear Power Station**
**Rowe, MA**

| Station<br>Sample ID<br>Date Sampled | Clean-up Goal | SB-BLK01-A<br>SB-BLK01-A<br>11/30/2005 | SB-BLK01-A<br>FD001<br>11/30/2005 | SB-BLK02-A<br>SB-BLK02-A<br>11/30/2005 | SB-BLK03-A<br>SB-BLK03-A<br>11/30/2005 | BLKPT-106<br>BLKPT-106<br>8/17/2006 | BLKPT-107<br>BLKPT-107<br>8/17/2006 | BLKPT-108<br>BLKPT-108<br>8/17/2006 | BLKPT-109<br>BLKPT-109<br>8/17/2006 |
|---|---|---|---|---|---|---|---|---|---|
| ***Polychlorinated Biphenyls (PCBs) (mg/kg)*** | | | | | | | | | |
| Aroclor-1248 | | 0.0111 U | 0.0109 U | 0.0104 U | 0.0113 U | 0.0101 U | 0.0108 UJ | 0.0137 UJ | 0.00936 J |
| Aroclor-1254 | | 0.0111 U | 0.0109 U | 0.0104 U | 0.0113 U | 0.0555 | 0.0967 J | 0.0415 J | 0.0969 J |
| Aroclor-1260 | | 0.0111 U | 0.0109 U | 0.0104 U | 0.0113 U | 0.0131 | 0.024 J | 0.0108 J | 0.024 J |
| Total PCBs | 1 | - | - | - | - | 0.0686 | 0.1207 | 0.0523 | 0.130 |

Notes:
Summary of detections only
- = All constituents below the detection limit
J = Estimated value
U = Below method detection limit
mg/kg = milligram per kilogram
PCB Clean-up goal based on TSCA standard

**Table 11**
**Soil Dioxin Closure Data for Dioxin Area**
**Yankee Nuclear Power Station**
**Rowe, MA**

| Sample ID | Date Sampled | Dioxin Concentration |
|---|---|---|
| Clean-up Goal | | 20 |
| EX-3-021 | 9/21/2005 | 2.1 |
| EX-3-022 | 9/14/2005 | 1.6 |
| EX-3-023 | 9/14/2005 | 2.8 |
| EX-3-024 | 9/21/2005 | 3.3 |
| EX-3-025 | 9/21/2005 | 4.0 |

Notes:
Results in equivalent 2,3,7,8-TCDD concentration
Units in nanogram per kilogram (ng/kg)
Clean-up goals based on MCP Method 1 S-1/GW-1 standards

**Table 12**
**Soil Petroleum Closure Data for Bulldozer Spill Area**
**Yankee Nuclear Power Station**
**Rowe, MA**

| Station<br>Sample ID<br>Date Sampled | Clean-up Goal | CAT-B6-SPILL<br>CAT-B6-SPILL<br>6/27/2006 |
|---|---|---|
| ***Extractable Petroleum Hydrocarbons (EPH) (mg/kg)*** | | |
| C11-C22 Aromatics | 200 | 28 U |
| C19-C36 Aliphatics | 2,500 | 145 |
| C9-C18 Aliphatics | 1,000 | 28 U |
| ***Semi-Volatile Organic Compounds (SVOC) (µg/kg)*** | | - |

Notes:
Summary of detections only
- = All constituents below the detection limit
U = Below method detection limit
mg/kg = milligram per kilogram
µg/kg = microgram per kilogram
Clean-up goals based on MCP Method 1 S-1/GW-1 standards

**Table 13**
**Soil Petroleum Closure Data for Drum in Woods**
**Yankee Nuclear Power Station**
**Rowe, MA**

| Station<br>Sample ID<br>Date Sampled | Clean-up Goal | DRM-001<br>DM001-0003I<br>5/20/2005 | FD001-052005-2<br>FD001-052005-2<br>5/20/2005 | DRM-002<br>DM002-0003I<br>5/20/2005 |
|---|---|---|---|---|
| ***Volatile Petroleum Hydrocarbons (VPH) (mg/kg)*** | | | | |
| C5-C8 Aliphatics | 100 | 1.97 U | 1.48 U | 1.96 U |
| C9-C10 Aromatics | 100 | 0.656 U | 0.494 U | 0.781 |
| C9-C12 Aliphatics | 1,000 | 0.656 U | 0.494 U | 1.29 |
| Toluene | 30 | 0.131 U | 0.111 | 0.131 U |

Notes:
Summary of detections only
U = Below method detection limit
mg/kg = milligram per kilogram
Clean-up goals based on MCP Method 1 S-1/GW-1 standards

**Table 14**
**Soil Petroleum Closure Data for Firewater Pumphouse Drywell Area**
**Yankee Nuclear Power Station**
**Rowe, MA**

| Station<br>Sample ID<br>Date Sampled | Clean-up Goal | Drywell-FI-01<br>Drywell-FI-01<br>4/27/2006 | Drywell-EW-01<br>Drywell-EW-01<br>4/27/2006 | Drywell-NW-01<br>Drywell-NW-01<br>4/27/2006 | Drywell-SW-01<br>Drywell-SW-01<br>4/27/2006 | Drywell-WW-01<br>Drywell-WW-01<br>4/27/2006 |
|---|---|---|---|---|---|---|
| ***Extractable Petroleum Hydrocarbons (EPH) (mg/kg)*** | | | | | | |
| 2-Methylnaphthalene | 4 | 0.149 U | 0.151 U | 0.149 U | 0.166 U | 0.0198 J |
| Acenaphthene | 20 | 0.149 U | 0.151 U | 0.149 U | 0.166 U | 0.114 J |
| Anthracene | 1,000 | 0.149 UJ | 0.151 UJ | 0.149 UJ | 0.166 UJ | 0.155 J |
| Benzo(a)anthracene | 7 | 0.149 U | 0.151 U | 0.149 U | 0.166 U | 0.364 |
| Benzo(a)pyrene | 2 | 0.149 U | 0.151 U | 0.0389 J | 0.166 U | 0.334 |
| Benzo(b)fluoranthene | 7 | 0.015 J | 0.151 U | 0.03 J | 0.166 U | 0.222 |
| Benzo(g,h,i)perylene | 1,000 | 0.149 U | 0.151 U | 0.0315 J | 0.166 U | 0.219 |
| Benzo(k)fluoranthene | 70 | 0.149 U | 0.151 U | 0.0344 J | 0.166 U | 0.404 |
| C11-C22 Aromatics | 200 | 30 U | 30.2 U | 30 U | 33.4 U | 30.5 U |
| C19-C36 Aliphatics | 2,500 | 30 U | 30.2 U | 30 U | 33.4 U | 30.5 U |
| C9-C18 Aliphatics | 1,000 | 30 U | 30.2 U | 30 U | 33.4 U | 30.5 U |
| Chrysene | 7 | 0.0344 J | 0.151 U | 0.0659 J | 0.166 U | 0.468 |
| Fluoranthene | 1,000 | 0.0569 J | 0.151 UJ | 0.121 J | 0.166 UJ | 1 J |
| Fluorene | 400 | 0.149 U | 0.151 U | 0.149 U | 0.166 U | 0.0686 J |
| Indeno(1,2,3-cd)pyrene | 7 | 0.149 U | 0.151 U | 0.149 U | 0.166 U | 0.184 |
| Naphthalene | 4 | 0.149 U | 0.151 U | 0.149 U | 0.166 U | 0.0945 J |
| Phenanthrene | 100 | 0.149 UJ | 0.151 UJ | 0.0389 J | 0.166 UJ | 0.559 J |
| Pyrene | 1,000 | 0.149 UJ | 0.151 UJ | 0.102 J | 0.166 UJ | 0.802 J |
| ***Volatile Petroleum Hydrocarbons (VPH) (mg/kg)*** | | | | | | |
| C5-C8 Aliphatics | 100 | 0.773 U | 0.784 U | 0.789 U | 0.865 U | 0.83 U |
| C9-C10 Aromatics | 100 | 0.258 UJ | 0.261 U | 0.263 U | 0.288 U | 0.277 U |
| C9-C12 Aliphatics | 1,000 | 0.0527 J | 0.0955 J | 0.263 U | 0.288 U | 0.277 U |
| m+p-Xylenes | 1,000 | 0.0372 J | 0.104 U | 0.105 U | 0.115 U | 0.111 U |
| Toluene | 30 | 0.0515 UJ | 0.221 | 0.0526 U | 0.107 | 0.0553 U |
| ***Volatile Organic Compounds (VOC) (µg/kg)*** | | | | | | |
| 2-Butanone | 300 | 44.7 U | 45.5 U | 3.7 J | 72.8 U | 46.1 U |
| Acetone | 3,000 | 89.5 U | 90.9 U | 44.2 J | 146 U | 92.3 U |
| Carbon disulfide | 100,000 | 22.4 U | 0.5 J | 22.3 U | 36.4 U | 23.1 U |
| Toluene | 30,000 | 2.3 J | 9.2 | 2.5 J | 5.5 J | 1.7 J |
| Trichlorofluoromethane | 1,000,000 | 4.5 UJ | 4.5 UJ | 0.8 J | 7.3 UJ | 0.8 J |

Notes:
Summary of detections only
J = Estimated value
U = Below method detection limit
mg/kg = milligram per kilogram
µg/kg = microgram per kilogram
Clean-up goals based on MCP Method 1 S-1/GW-1 standards

**Table 15**
**Soil Petroleum Closure Data for Firewater Tank (Tank 55) Area**
**Yankee Nuclear Power Station**
**Rowe, MA**

| Station<br>Sample ID<br>Date Sampled | Clean-up Goal | TK-55-004<br>TK-55-004<br>9/14/2005 | TK-55-005<br>TK-55-005<br>9/14/2005 | TK-55-006<br>TK-55-006<br>9/14/2005 | TK-55-007<br>TK-55-007<br>9/14/2005 | TK-55-008<br>TK-55-008<br>9/14/2005 | TK-55-009<br>TK-55-009<br>9/14/2005 | TK-55-010<br>TK-55-010<br>9/14/2005 | TK-55-011<br>TK-55-011<br>11/8/2005 |
|---|---|---|---|---|---|---|---|---|---|
| ***Extractable Petroleum Hydrocarbons (EPH) (mg/kg)*** | | | | | | | | | |
| C11-C22 Aromatics | 200 | | | | **693** | **335** | 32.6 U | 69.1 | 42.8 |
| C19-C36 Aliphatics | 2,500 | | | | 139 | 74.6 | 32.6 U | 30.8 U | 30.6 U |
| C9-C18 Aliphatics | 1,000 | | | | **643** | **313** | 32.6 U | 68.2 | 30.6 U |
| 2-Methylnaphthalene | 4 | | | | **8.54** | **3.08** | 0.163 U | 0.153 U | 0.0673 J |
| Acenaphthene | 20 | | | | **0.742** | **0.304** | 0.163 U | 0.0415 J | 0.153 U |
| Anthracene | 1,000 | | | | **0.439** | **0.221** | 0.163 U | 0.0338 J | 0.0245 J |
| Benzo(b)fluoranthene | 7 | | | | **0.00486 J** | **0.172 U** | 0.163 U | 0.153 U | 0.153 UJ |
| Chrysene | 7 | | | | **0.0761 J** | **0.0276 J** | 0.163 U | 0.153 U | 0.153 U |
| Fluoranthene | 1,000 | | | | **0.0777 J** | **0.0467 J** | 0.163 U | 0.153 U | 0.153 U |
| Fluorene | 400 | | | | **1.55** | **0.684** | 0.163 U | 0.0907 J | 0.153 U |
| Naphthalene | 4 | | | | **1.83** | **0.548** | 0.163 U | 0.153 U | 0.153 U |
| Phenanthrene | 100 | | | | **2.84** | **1.32** | 0.163 U | 0.177 | 0.153 UJ |
| Pyrene | 1,000 | | | | **0.693** | **0.323** | 0.163 U | 0.0722 J | 0.153 U |
| ***Volatile Petroleum Hydrocarbons (VPH) (mg/kg)*** | | | | | | | | | |
| C5-C8 Aliphatics | 100 | 0.728 U | 0.752 J | | | | | | |
| C9-C10 Aromatics | 100 | 0.376 | 12.5 | | | | | | |
| C9-C12 Aliphatics | 1,000 | 1.1 | 27.2 | | | | | | |
| Naphthalene | 4 | 0.0485 U | 0.987 | | | | | | |
| ***Polychlorinated Biphenyls (PCBs) (mg/kg)*** | 1 | | | - | | | | | |

Notes:
Summary of detections only
Blank cells were not analyzed
- = All constituents below the detection limit
J = Estimated value
U = Below method detection limit
mg/kg = milligram per kilogram
**Bold values detected above clean-up goal**
TK-55-007 and 008 were subsequently excavated and resampled
- - resample results represented by TK-55-011, 012, 013
Clean-up goals based on MCP Method 1 S-1/GW-1 standards
except PCB Clean-up goal based on TSCA standard

Table 15
Soil Petroleum Closure Data for Firewater Tank
(Tank 55) Area
Yankee Nuclear Power Station
Rowe, MA

| Station<br>Sample ID<br>Date Sampled | Clean-up Goal | TK-55-012<br>TK-55-012<br>11/8/2005 | TK-55-013<br>TK-55-013<br>11/8/2005 |
|---|---|---|---|
| ***Extractable Petroleum Hydrocarbons (EPH) (mg/kg)*** | | | |
| C11-C22 Aromatics | 200 | 29.8 U | 55.5 |
| C19-C36 Aliphatics | 2,500 | 29.8 U | 37.3 |
| C9-C18 Aliphatics | 1,000 | 29.8 U | 33.7 U |
| 2-Methylnaphthalene | 4 | 0.149 U | 0.168 U |
| Acenaphthene | 20 | 0.149 U | 0.168 U |
| Anthracene | 1,000 | 0.149 U | 0.168 U |
| Benzo(b)fluoranthene | 7 | 0.149 UJ | 0.168 UJ |
| Chrysene | 7 | 0.149 U | 0.168 U |
| Fluoranthene | 1,000 | 0.149 U | 0.168 U |
| Fluorene | 400 | 0.149 U | 0.168 U |
| Naphthalene | 4 | 0.149 U | 0.168 U |
| Phenanthrene | 100 | 0.149 UJ | 0.168 UJ |
| Pyrene | 1,000 | 0.149 U | 0.168 U |
| ***Volatile Petroleum Hydrocarbons (VPH) (mg/kg)*** | | | |
| C5-C8 Aliphatics | 100 | | |
| C9-C10 Aromatics | 100 | | |
| C9-C12 Aliphatics | 1,000 | | |
| Naphthalene | 4 | | |
| ***Polychlorinated Biphenyls (PCBs) (mg/kg)*** | 1 | | |

Notes:
Summary of detections only
Blank cells were not analyzed
- = All constituents below the detection limit
J = Estimated value
U = Below method detection limit
mg/kg = milligram per kilogram
**Bold values detected above clean-up goal**
TK-55-007 and 008 were subsequently excavated and resampled
resample results represented by TK-55-011, 012, 013
Clean-up goals based on MCP Method 1 S-1/GW-1 standards
except PCB Clean-up goal based on TSCA standard

Table 16
Soil Petroleum Closure Data for Fuel Oil Tank Area
Yankee Nuclear Power Station
Rowe, MA

| Station | Clean-up Goal * | EX-201 | EX-202 | EX-203 | EX-204 | EX-205 | EX-206 | EX-207 | EX-208 | EX-209 | SB-553A |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID | | EX-201-0020F | EX-202-0020F | EX-203-0020F | EX-204-0020F | EX-205-0020F | EX-206-0003F | EX-207-0003F | EX-208-0004F | EX-209-0004F | SB-553A |
| Date Sampled | | 8/5/2005 | 8/5/2005 | 8/5/2005 | 8/5/2005 | 8/5/2005 | 8/11/2005 | 10/6/2005 | 10/11/2005 | 10/11/2005 | 12/1/2005 |
| Location | | fuel berm | fuel berm | fuel berm | fuel berm | fuel berm | pumphouse | fuel line | fuel line | fuel line | fuel line |
| ***Field Screening (ppm)*** | | | | | | | | | | | |
| PID Headspace Reading | | 46 | 37 | NS | NS | NS | NS | NS | NS | NS | 80 |
| ***Total Petroleum Hydrocarbons (TPH) (mg/kg)*** | 200 | 526 | 994 | 1,210 | 358 | 85 | 35.4 | | | | |
| ***Extractable Petroleum Hydrocarbons (EPH) (mg/kg)*** | | | | | | | | | | | |
| C11-C22 Aromatics | 200 | 150 | 497 | 436 | 97.4 | 26.6 J | 29.2 U | 28.2 U | 29.5 U | 34.5 | 270 |
| C19-C36 Aliphatics | 2,500 | 77.5 | 91.8 | 151 | 47.8 | 29.6 U | 32.7 | 28.2 U | 29.5 U | 28.8 U | 70.8 |
| C9-C18 Aliphatics | 1,000 | 299 | 409 | 628 | 220 | 45.4 | 29.2 U | 28.2 U | 29.5 U | 28.8 U | 352 |
| 2-Methylnaphthalene | 4 | 0.143 U | 0.0926 J | 0.145 U | 0.15 | 0.147 U | 0.145 U | 0.0267 J | 0.147 U | 0.143 U | 0.165 U |
| Acenaphthene | 20 | 0.143 U | 0.559 | 0.296 | 0.167 | 0.0281 J | 0.145 U | 0.14 U | 0.147 U | 0.143 U | 0.165 U |
| Anthracene | 1000 | 0.0443 J | 0.343 | 0.354 | 0.395 | 0.037 J | 0.145 U | 0.14 U | 0.147 U | 0.143 U | 0.195 |
| Benzo(a)anthracene | 7 | 0.143 U | 0.142 U | 0.145 U | 0.6 | 0.147 U | 0.145 U | 0.0478 J | 0.147 UJ | 0.143 UJ | 0.165 UJ |
| Benzo(a)pyrene | 2 | 0.143 U | 0.142 U | 0.145 UJ | 0.381 J | 0.147 UJ | 0.145 U | 0.0521 J | 0.147 UJ | 0.143 UJ | 0.165 UJ |
| Benzo(b)fluoranthene | 7 | 0.143 U | 0.142 U | 0.145 UJ | 0.381 J | 0.0251 J | 0.145 U | 0.0394 J | 0.028 J | 0.143 UJ | 0.165 UJ |
| Benzo(g,h,i)perylene | 1,000 | 0.143 U | 0.142 U | 0.145 UJ | 0.148 J | 0.147 UJ | 0.145 U | 0.0281 J | 0.147 UJ | 0.143 UJ | 0.165 UJ |
| Benzo(k)fluoranthene | 70 | 0.143 U | 0.142 U | 0.145 U | 0.275 | 0.147 U | 0.145 U | 0.0577 J | 0.147 U | 0.143 U | 0.165 U |
| Chrysene | 7 | 0.143 U | 0.142 U | 0.0304 J | 0.546 | 0.0296 J | 0.145 U | 0.0605 J | 0.147 U | 0.143 U | 0.165 U |
| Fluoranthene | 1,000 | 0.143 U | 0.0912 J | 0.0507 J | 1.14 | 0.037 J | 0.145 U | 0.125 J | 0.0722 J | 0.0633 J | 0.106 J |
| Fluorene | 400 | 0.143 U | 0.772 | 0.635 | 0.251 | 0.0458 J | 0.145 U | 0.14 U | 0.147 U | 0.143 U | 0.165 U |
| Indeno(1,2,3-cd)pyrene | 7 | 0.143 U | 0.142 U | 0.145 UJ | 0.138 J | 0.147 UJ | 0.145 U | 0.14 U | 0.147 UJ | 0.143 UJ | 0.165 UJ |
| Naphthalene | 4 | 0.143 UJ | 0.114 J | 0.145 U | 0.145 U | 0.147 U | 0.145 U | 0.14 U | 0.147 U | 0.143 U | 0.165 U |
| Phenanthrene | 100 | 0.0458 J | 2.41 | 1.84 | 1.3 | 0.114 J | 0.145 U | 0.0422 J | 0.147 UJ | 0.143 UJ | 0.318 J |
| Pyrene | 1000 | 0.0772 J | 0.15 | 0.135 J | 1.01 | 0.147 U | 0.145 U | 0.11 J | 0.0604 J | 0.0589 J | 0.115 J |
| ***Volatile Petroleum Hydrocarbons (VPH) (mg/kg)*** | | | | | | | | | | | |
| C5-C8 Aliphatics | 100 | 0.3 U | 2.45 U | 0.434 U | 0.518 U | 0.567 U | 0.419 U | 0.435 U | 0.42 U | 0.415 U | 6.68 J |
| C9-C10 Aromatics | 100 | 5.57 | 69.4 | 11.6 | 6.59 | 1.85 J | 0.14 U | 0.264 U | 0.14 U | 0.138 U | 42.5 |
| C9-C12 Aliphatics | 1,000 | 12 | 143 | 24.6 | 13.5 | 3.98 J | 0.14 U | 0.725 U | 0.14 U | 0.138 U | 94.9 |
| Naphthalene | 4 | 0.0293 U | 0.117 U | 0.029 U | 0.0346 U | 0.0378 U | 0.028 U | 0.14 U | 0.028 U | 0.0276 U | 0.471 U |
| Toluene | 30 | 0.0293 U | 0.117 U | 0.0201 J | 0.0346 U | 0.0378 U | 0.028 U | 0.029 U | 0.028 U | 0.0276 U | 0.471 U |

Notes:
Summary of detections only
Blank cells were not analyzed
- = All constituents below the detection limit
J = Estimated value
U = Below method detection limit
* Site clean-up goal for PCBs = 1 mg/kg
mg/kg = milligram per kilogram
ppm = parts per million
NS = Not sampled
**Bold values detected above clean-up goal**
Clean-up goals based on MCP Method 1 S-1/GW-1 standards

Table 17
Soil Petroleum Closure Data for Fuel Spill 164 Area
Yankee Nuclear Power Station
Rowe, MA

| Station<br>Sample ID<br>Date Sampled | Clean-up Goal | EX-164<br>EX-164<br>2/9/2006 | EX-164<br>EX-164A<br>3/9/2006 |
|---|---|---|---|
| ***Extractable Petroleum Hydrocarbons (EPH) (mg/kg)*** | | | |
| C11-C22 Aromatics | 200 | | 87.6 |
| C19-C36 Aliphatics | 2,500 | | 36.5 |
| C9-C18 Aliphatics | 1,000 | | 110 |
| ***Volatile Petroleum Hydrocarbons (VPH) (mg/kg)*** | | | |
| C5-C8 Aliphatics | 100 | 2.09 | |
| C9-C12 Aliphatics | 1,000 | 17.1 | |
| C9-C10 Aromatics | 100 | 18.2 | |
| ***Volatile Organic Compounds (VOC) (µg/kg)*** | | | |
| Ethylbenzene | 80,000 | 24.2 J | |
| Naphthalene | 4,000 | 1,590 | |
| m+p-Xylenes | 1,000,000 | 130 | |
| o-Xylene | 500,000 | 78.4 | |
| ***Semi-Volatile Organic Compounds (SVOC) (µg/kg)*** | | | |
| 2-Methylnaphthalene | 4,000 | | 196 |
| Acenaphthene | 20,000 | | 219 |
| Fluorene | 400,000 | | 227 |
| Phenanthrene | 100,000 | | 1,190 |
| Anthracene | 1,000,000 | | 346 |
| Fluoranthene | 1,000,000 | | 1,440 |
| Pyrene | 1,000,000 | | 1,140 |
| Benzo(a)anthracene | 7,000 | | 555 |
| Chrysene | 7,000 | | 713 |
| Benzo(b)fluoranthene | 7,000 | | 324 |
| Benzo(k)fluoranthene | 70,000 | | 530 |
| Benzo(a)pyrene | 2,000 | | 518 |
| Indeno(1,2,3-cd)pyrene | 7,000 | | 197 |
| Benzo(g,h,i)perylene | 1,000,000 | | 216 |

Notes:
Summary of detections only
Blank cells were not analyzed
- = All constituents below the detection limit
J = Estimated value
mg/kg = milligram per kilogram
µg/kg = microgram per kilogram
Clean-up goals based on MCP Method 1 S-1/GW-1 standards

**Table 18**
**Soil Petroleum Closure Data for Furlon House Basement**
**Yankee Nuclear Power Station**
**Rowe, MA**

| Station<br>Sample ID<br>Date Sampled | Clean-up Goal | FLH-01-003I<br>FLH-01-003I<br>7/6/2006 | FLH-01-01-02F<br>FLH-01-01-02F<br>7/6/2006 | FLH-02-003I<br>FLH-02-003I<br>7/6/2006 | FLH-02-01-02F<br>FLH-02-01-02F<br>7/6/2006 | FLH-03-003I<br>FLH-03-003I<br>7/6/2006 | FLH-03-01-02F<br>FLH-03-01-02F<br>7/6/2006 |
|---|---|---|---|---|---|---|---|
| ***Extractable Petroleum Hydrocarbons (EPH) (mg/kg)*** | | | | | | | |
| C11-C22 Aromatics | 200 | 29.9 J | 30.5 U | 30.4 U | 33.2 UJ | 30.3 U | 29.4 U |
| C19-C36 Aliphatics | 2,500 | 30 U | 30.5 U | 30.4 U | 33.2 U | 30.3 U | 29.4 U |
| C9-C18 Aliphatics | 1,000 | 37.4 | 28 J | 30.4 U | 33.2 U | 30.3 U | 29.4 U |
| 2-Methylnaphthalene | 4 | 0.149 UJ | 0.152 UJ | 0.152 UJ | 0.166 UJ | 0.151 UJ | 0.146 UJ |
| Anthracene | 1,000 | 0.0344 J | 0.152 U | 0.152 U | 0.166 UJ | 0.151 U | 0.146 U |
| Fluoranthene | 1,000 | 0.021 J | 0.152 U | 0.152 U | 0.166 UJ | 0.151 U | 0.146 U |
| Phenanthrene | 100 | 0.115 J | 0.152 U | 0.152 U | 0.166 UJ | 0.151 U | 0.146 U |
| ***Volatile Petroleum Hydrocarbons (VPH) (mg/kg)*** | | | | | | | |
| C5-C8 Aliphatics | 100 | 1.1 U | 0.772 U | 1.37 U | 0.827 U | 0.528 U | 0.73 U |
| C9-C10 Aromatics | 100 | 8.6 | 2.44 | 0.209 U | 0.179 U | 0.176 U | 0.162 U |
| C9-C12 Aliphatics | 1,000 | 7.36 | 2.05 | 0.0684 J | 0.0769 J | 0.0976 J | 0.0544 J |
| m+p-Xylenes | 1000 | 0.0251 J | 0.0767 U | 0.0835 U | 0.0715 U | 0.0704 U | 0.0649 U |
| Naphthalene | 4 | 0.55 | 0.122 | 0.0417 U | 0.0357 U | 0.0352 U | 0.0324 U |
| o-Xylene | 500 | 0.0264 J | 0.0384 U | 0.0417 U | 0.0357 U | 0.0352 U | 0.0324 U |
| Toluene | 30 | 0.0319 U | 0.0384 U | 0.294 | 0.158 | 0.0193 J | 0.161 |

Notes:
Summary of detections only
J = Estimated value
U = Below method detection limit
mg/kg = milligram per kilogram
Clean-up goals based on MCP Method 1 S-1/GW-1 standards

**Table 18**
**Soil Petroleum Closure Data for Furlon**
**House Basement**
**Yankee Nuclear Power Station**
**Rowe, MA**

| Station<br>Sample ID<br>Date Sampled | Clean-up Goal | FLH-04-003I<br>FLH-04-003I<br>7/6/2006 | FLH-04-01-02F<br>FLH-04-01-02F<br>7/6/2006 | FLH-05-003I<br>FLH-05-003I<br>7/7/2006 | FLH-05-01-02F<br>FLH-05-01-02F<br>7/7/2006 | FLH-06-003I<br>FLH-06-003I<br>7/7/2006 | FLH-06-01-02F<br>FLH-06-01-02F<br>7/7/2006 |
|---|---|---|---|---|---|---|---|
| ***Extractable Petroleum Hydrocarbons (EPH) (mg/kg)*** | | | | | | | |
| C11-C22 Aromatics | 200 | 29.8 U | 31.1 U | 31.4 UJ | 30.8 UJ | 32.1 UJ | 29.3 UJ |
| C19-C36 Aliphatics | 2,500 | 29.8 U | 31.1 U | 31.4 U | 30.8 U | 32.1 U | 29.3 U |
| C9-C18 Aliphatics | 1,000 | 29.8 U | 31.1 U | 31.4 U | 30.8 U | 32.1 U | 29.3 U |
| 2-Methylnaphthalene | 4 | 0.148 UJ | 0.155 UJ | 0.156 UJ | 0.153 UJ | 0.16 UJ | 0.146 UJ |
| Anthracene | 1,000 | 0.148 U | 0.155 U | 0.156 UJ | 0.153 UJ | 0.16 UJ | 0.146 UJ |
| Fluoranthene | 1,000 | 0.148 U | 0.155 U | 0.156 UJ | 0.153 UJ | 0.16 UJ | 0.146 UJ |
| Phenanthrene | 100 | 0.148 U | 0.155 U | 0.156 UJ | 0.153 UJ | 0.16 UJ | 0.146 UJ |
| ***Volatile Petroleum Hydrocarbons (VPH) (mg/kg)*** | | | | | | | |
| C5-C8 Aliphatics | 100 | 0.452 U | 0.578 U | 0.897 U | 0.777 U | 1.02 U | 0.833 U |
| C9-C10 Aromatics | 100 | 0.151 U | 0.193 U | 0.299 U | 0.259 U | 0.341 U | 0.278 U |
| C9-C12 Aliphatics | 1,000 | 0.0752 J | 0.0685 J | 0.119 J | 0.259 U | 0.101 J | 0.151 J |
| m+p-Xylenes | 1000 | 0.0602 U | 0.077 U | 0.12 U | 0.104 U | 0.136 U | 0.111 U |
| Naphthalene | 4 | 0.0301 U | 0.0385 U | 0.0598 U | 0.0518 U | 0.0682 U | 0.0555 U |
| o-Xylene | 500 | 0.0301 U | 0.0385 U | 0.0598 U | 0.0518 U | 0.0682 U | 0.0555 U |
| Toluene | 30 | 0.0301 U | 0.051 | 0.0598 U | 0.0518 U | 0.0682 U | 0.0555 U |

Notes:
Summary of detections only
J = Estimated value
U = Below method detection limit
mg/kg = milligram per kilogram
Clean-up goals based on MCP Method 1 S-1/GW-1 standards

**Table 18**
**Soil Petroleum Closure Data for Furlon**
**House Basement**
**Yankee Nuclear Power Station**
**Rowe, MA**

| Station<br>Sample ID<br>Date Sampled | Clean-up Goal | FLH-07-003I<br>FLH-07-003I<br>7/7/2006 | FLH-07-01-02F<br>FLH-07-01-02F<br>7/7/2006 |
|---|---|---|---|
| ***Extractable Petroleum Hydrocarbons (EPH) (mg/kg)*** | | | |
| C11-C22 Aromatics | 200 | 30.4 U | 30.6 U |
| C19-C36 Aliphatics | 2,500 | 30.4 U | 30.6 U |
| C9-C18 Aliphatics | 1,000 | 30.4 U | 30.6 U |
| 2-Methylnaphthalene | 4 | 0.088 J | 0.0214 J |
| Anthracene | 1,000 | 0.151 U | 0.152 U |
| Fluoranthene | 1,000 | 0.0273 J | 0.152 U |
| Phenanthrene | 100 | 0.0925 J | 0.0443 J |
| ***Volatile Petroleum Hydrocarbons (VPH) (mg/kg)*** | | | |
| C5-C8 Aliphatics | 100 | 0.927 U | 0.945 U |
| C9-C10 Aromatics | 100 | 2.05 | 0.347 U |
| C9-C12 Aliphatics | 1,000 | 1.97 | 0.554 |
| m+p-Xylenes | 1000 | 0.059 J | 0.126 U |
| Naphthalene | 4 | 0.151 | 0.0759 |
| o-Xylene | 500 | 0.0318 J | 0.063 U |
| Toluene | 30 | 0.0618 U | 0.063 U |

Notes:
Summary of detections only
J = Estimated value
U = Below method detection limit
mg/kg = milligram per kilogram
Clean-up goals based on MCP Method 1 S-1/GW-1 standards

**Table 19**
**Soil Petroleum Closure Data for Rad Waste Area**
**Yankee Nuclear Power Station**
**Rowe, MA**

| Station<br>Sample Designation<br>Date Sampled<br>Comment | Clean-up Goal | RW-D-001<br>RW-D-001<br>10/10/2005 |
|---|---|---|
| ***Extractable Petroleum Hydrocarbons (mg/kg)*** | | - |
| ***Volatile Petroleum Hydocarbons (mg/kg)*** | | |
| C5-C8 Aliphatics | 100 | 0.404 J |
| C9-C10 Aromatics | 100 | 1.01 |
| C9-C12 Aliphatics | 1,000 | 0.566 |
| ***Volatile Organic Compounds (ug/kg)*** | | |
| Bromomethane | 3,000 | 28.1 J |
| Toluene | 30,000 | 55 |
| ***Semi-Volatile Organic Compounds (ug/kg)*** | | |
| Bis(2-ethylhexyl)phthalate | 100,000 | 79.7 J |

Notes:
Summary of detections only
- = All constituents below the detection limit
J = Estimated value
mg/kg = milligram per kilogram
µg/kg = microgram per kilogram
Clean-up goals based on MCP Method 1 S-1/GW-1 standards

**Table 20**
**Soil Petroleum Closure Data for Railroad Ties Area**
**Yankee Nuclear Power Station**
**Rowe, MA**

| Station<br>Sample ID<br>Date Sampled | Clean-up Goal | EX-RR001<br>EX-RR001<br>6/30/2005 | EX-RR002<br>EX-RR002<br>7/8/2005 | EX-RR-0003<br>EX-RR-0003<br>9/13/2005 | EX-RR-0003<br>FD001-091305<br>9/13/2005 | EX-RR-0004<br>EX-RR-0004<br>9/13/2005 | EX-RR-0005<br>EX-RR-0005<br>9/13/2005 | EX-RR-0006<br>EX-RR-0006<br>9/13/2005 | EX-RR-0007<br>EX-RR-0007<br>9/13/2005 |
|---|---|---|---|---|---|---|---|---|---|
| *Semi-Volatile Organic Compounds (SVOC) (µg/kg)* | | | | | | | | | |
| 1-Methylnaphthalene | NV | 190 U | 185 J | 270 U | 269 U | 254 U | 275 U | 260 U | 263 U |
| 2-Methylnaphthalene | 4,000 | 190 U | 348 | 270 U | 270 U | 254 U | 276 U | 261 U | 263 U |
| Acenaphthene | 20,000 | 190 U | 482 | 270 U | 270 U | 254 U | 124 J | 117 J | 263 U |
| Acenaphthylene | 100,000 | 158 J | 822 | 540 | 693 | 557 | 309 | 318 | 255 J |
| Anthracene | 1,000,000 | 128 J | 962 | 372 | 377 | 745 | 482 | 503 | 208 J |
| Benzidine | NV | 190 U | 189 U | 270 U | 234 J | 254 U | 276 U | 214 J | 234 J |
| Benzo(a)anthracene | 7,000 | 329 | 1110 | 1940 | 2000 | 2210 | 1120 | 891 | 971 |
| Benzo(a)pyrene | 2,000 | 258 | 745 | 1870 | **2580** | **2830** | 1150 | 1050 | 1150 |
| Benzo(b)fluoranthene | 7,000 | 234 | 703 | 2390 | 2940 | 3210 | 1460 | 1490 | 1550 |
| Benzo(g,h,i)perylene | 1,000,000 | 190 | 689 | 837 | 730 | 811 | 251 J | 417 | 503 |
| Benzo(k)fluoranthene | 70,000 | 230 | 686 | 2160 | 2480 | 2850 | 1230 | 1200 | 1300 |
| bis(2-Ethylhexyl)phthalate | 100,000 | 190 U | 189 U | 448 | 453 | 254 U | 276 U | 261 U | 263 U |
| Carbazole | NV | 190 U | 230 | 113 J | 270 U | 254 U | 276 U | 261 U | 263 U |
| Chrysene | 7,000 | 308 | 1150 | 2460 | 2490 | 2840 | 1730 | 1320 | 1330 |
| Dibenzo(a,h)anthracene | 700 | 190 U | 210 | 151 J | 261 J | 254 U | 276 U | 261 U | 263 U |
| Dibenzofuran | 100,000 | 190 U | 419 | 270 U | 270 U | 254 U | 276 U | 261 U | 263 U |
| Fluoranthene | 1,000,000 | 535 | 2620 | 3730 | 3810 | 4090 | 3110 | 1760 | 1640 |
| Fluorene | 400,000 | 190 U | 537 | 270 U | 270 U | 254 U | 276 U | 261 U | 263 U |
| Indeno(1,2,3-cd)pyrene | 7,000 | 183 J | 790 | 839 | 819 | 892 | 284 | 451 | 487 |
| Isophorone | NV | 190 U | 189 U | 135 J | 270 U | 254 U | 276 U | 261 U | 263 U |
| Naphthalene | 4,000 | 190 U | 420 | 270 U | 270 U | 254 U | 276 U | 261 U | 263 U |
| Phenanthrene | 100,000 | 54.6 J | 2000 | 310 | 337 | 727 | 430 | 492 | 253 J |
| Pyrene | 1,000,000 | 527 | 1930 | 3460 | 4000 | 4990 | 3170 | 1970 | 1750 |

Notes:
Summary of detections only
J = Estimated value
U = Below method detection limit
µg/kg = microgram per kilogram
NV = No Value
**Bold values detected above clean-up goal**
Clean-up goals based on MCP Method 1 S-1/GW-1 standards

**Table 21**
**Soil Petroleum Closure Data for Turbine Building**
**Office Area**
**Yankee Nuclear Power Station**
**Rowe, MA**

| Station<br>Sample ID<br>Date Sampled | Clean-up Goal | TBO-EX-001<br>TBO-EX-001<br>8/9/2006 | TBO-EX-002<br>TBO-EX-002<br>8/9/2006 | TBO-EX-003<br>TBO-EX-003<br>8/9/2006 | TBO-EX-004<br>TBO-EX-004<br>8/9/2006 | TBO-EX-005<br>TBO-EX-005<br>8/9/2006 | TBO-EX-006<br>TBO-EX-006<br>8/9/2006 | TBO-EX-007<br>TBO-EX-007<br>8/9/2006 |
|---|---|---|---|---|---|---|---|---|
| ***Extractable Petroleum Hydrocarbons (EPH) (mg/kg)*** | | | | | | | | |
| C11-C22 Aromatics | 200 | 28.4 U | 29.2 U | 27.6 U | 28.6 U | 28.3 U | 28.2 U | 28.4 U |
| C19-C36 Aliphatics | 2,500 | 28.4 U | 29.2 U | 27.6 U | 28.6 U | 28.3 U | 28.2 U | 28.4 U |
| C9-C18 Aliphatics | 1,000 | 28.4 U | 29.2 U | 27.6 U | 28.6 U | 28.3 U | 28.2 U | 28.4 U |

Notes:
Summary of detections only
U = Below method detection limit
mg/kg = milligram per kilogram
Clean-up goals based on MCP Method 1 S-1/GW-1 standards

Table 21
Soil Petroleum Closure Data for Turbine Building
Office Area
Yankee Nuclear Power Station
Rowe, MA

| Station<br>Sample ID<br>Date Sampled | Clean-up Goal | TBO-EX-008<br>TBO-EX-008<br>8/9/2006 | TBO-EX-009<br>TBO-EX-009<br>8/9/2006 | TBO-EX-010<br>TBO-EX-010<br>8/9/2006 |
|---|---|---|---|---|
| ***Extractable Petroleum Hydrocarbons (EPH) (mg/kg)*** | | | | |
| C11-C22 Aromatics | 200 | 29.1 U | 29.3 U | 37.7 U |
| C19-C36 Aliphatics | 2,500 | 29.1 U | 29.3 U | 37.7 U |
| C9-C18 Aliphatics | 1,000 | 29.1 U | 29.3 U | 37.7 U |

Notes:
Summary of detections only
U = Below method detection limit
mg/kg = milligram per kilogram
Clean-up goals based on MCP Method 1 S-1/GW-1 standards

**Table 22**
**Soil Lead Closure Data for Old Shooting Range**
**Yankee Nuclear Power Station**
**Rowe, MA**

| Sample ID | | EX-401-0003I | EX-402-0003I | EX-403-0003I | EX-404-0003I | EX-405-0003I | FD001 | EX-406-0003I | EX-408-0003I |
|---|---|---|---|---|---|---|---|---|---|
| Sample Depth | Clean-up | 0-3" | 0-3" | 0-3" | 0-3" | 0-3" | 0-3" | 0-3" | 0-3" |
| Date Sampled | Goal | 8-Jul-05 | 8-Jul-05 | 8-Jul-05 | 8-Jul-05 | 8-Jul-05 | 8-Jul-05 | 8-Jul-05 | 8-Jul-05 |
| Location | | N. Wall | E. Wall | S. Wall | W. Wall | N. Floor | DUP of 405 | Deep Target | S. Floor |
| Status | | Removed* | Removed* | Present | Removed | Removed* | Removed* | Removed* | Removed* |
| *Inorganics (mg/kg)* | | | | | | | | | |
| Lead | 300 | 13.1 | 23.6 | 48 | **366** | 34 | 49.1 | 59.3 | 81.9 |

Notes:
mg/kg = milligram per kilogram
**Bold values detected above clean-up goal**
Shaded samples were re-excavated for lead
*The following sample locations were subsequently excavated for polychlorinated biphenyls (PCBs):
EX-401, EX-402, EX-405/FD001, EX-406, and EX-408
Clean-up goals based on MCP Method 1 S-1/GW-1 standards

Table 22
Soil Lead Closure Data for Old Shooting Range
Yankee Nuclear Power Station
Rowe, MA

| Sample ID<br>Sample Depth<br>Date Sampled<br>Location<br>Status | Clean-up Goal | EX-409-0003I<br>0-3"<br>14-Jul-05<br>Floor<br>Present | EX-410-0003I<br>0-3"<br>14-Jul-05<br>S. Wall<br>Present | EX-411-0003I<br>0-3"<br>14-Jul-05<br>N. Wall<br>Present |
|---|---|---|---|---|
| *Inorganics (mg/kg)* | | | | |
| Lead | 300 | 67.7 | 122 | 141 |

Notes:
mg/kg = milligram per kilogram
**Bold values detected above clean-up goal**
Shaded samples were re-excavated for lead
*The following sample locations were subsequently excavated for polychlorinated biphenyls (PCBs):
EX-401, EX-402, EX-405/FD001, EX-406, and EX-408
Clean-up goals based on MCP Method 1 S-1/GW-1 standards

**Table 23**
**Soil Lead Closure Data for Penninsula Sand Blast Grit Area**
**Yankee Nuclear Power Station**
**Rowe, MA**

| Station<br>Clean-up Goal (mg/kg)] | Sample ID | Date Sampled | Lead Concentration<br>300 |
|---|---|---|---|
| EX-SBG-001 | EX-SBG-001 | 11/21/2005 | 178 |
| EX-SBG-002 | EX-SBG-002 | 11/21/2005 | 98.4 |
| EX-SBG-003 | EX-SBG-003 | 11/21/2005 | 549 |
| EX-SBG-004 | EX-SBG-004 | 11/21/2005 | 13.1 |
| EX-SBG-005 | EX-SBG-005 | 11/21/2005 | 16.9 |
| EX-SBG-006 | EX-SBG-006 | 11/21/2005 | 399 |
| EX-SBG-007 | EX-SBG-007 | 11/21/2005 | 11.4 |
| EX-SBG-008 | EX-SBG-008 | 11/21/2005 | 495 |
| EX-SBG-009 | EX-SBG-009 | 11/21/2005 | 131 |
| EX-SBG-009 | FD001-112105 | 11/21/2005 | 10.1 |
| EX-SBG-010 | EX-SBG-010 | 11/21/2005 | 532 |
| EX-SBG-011 | EX-SBG-011 | 11/21/2005 | 582 |
| EX-SBG-012 | EX-SBG-012 | 11/21/2005 | 181 |
| EX-SBG-013 | EX-SBG-013 | 11/21/2005 | 15.3 |
| EX-SBG-014 | EX-SBG-014 | 11/21/2005 | 63.9 |
| EX-SBG-015 | EX-SBG-015 | 11/21/2005 | 57 |
| EX-SBG-016 | EX-SBG-016 | 11/21/2005 | 31.5 |
| EX-SBG-017 | EX-SBG-017 | 11/21/2005 | 11.6 |
| EX-SBG-018 | EX-SBG-018 | 11/21/2005 | 144 |
| EX-SBG-019 | EX-SBG-019 | 11/21/2005 | 6.96 |
| EX-SBG-020 | EX-SBG-020 | 11/23/2005 | 717 |
| EX-SBG-021 | EX-SBG-021 | 11/23/2005 | 8.92 |
| EX-SBG-022 | EX-SBG-022 | 11/23/2005 | 65 |
| EX-SBG-023 | EX-SBG-023 | 11/29/2005 | 315 |
| EX-SBG-024 | EX-SBG-024 | 11/29/2005 | 94.2 |
| EX-SBG-025 | EX-SBG-025 | 11/29/2005 | 206 |
| EX-SBG-026 | EX-SBG-026 | 11/29/2005 | 234 |
| EX-SBG-026 | FD002-112905 | 11/29/2005 | 883 |
| EX-SBG-027 | EX-SBG-027 | 11/29/2005 | 599 |
| EX-SBG-028 | EX-SBG-028 | 11/29/2005 | 258 |
| EX-SBG-029 | EX-SBG-029 | 11/29/2005 | 309 |
| EX-SBG-030 | EX-SBG-030 | 11/29/2005 | 322 |

**Table 23**
**Soil Lead Closure Data for Penninsula Sand Blast Grit Area**
**Yankee Nuclear Power Station**
**Rowe, MA**

| Station<br>Clean-up Goal (mg/kg)] | Sample ID | Date Sampled | Lead Concentration<br>300 |
|---|---|---|---|
| EX-SBG-031 | EX-SBG-031 | 11/29/2005 | 254 |
| EX-SBG-032 | EX-SBG-032 | 11/29/2005 | 267 |
| EX-SBG-033 | EX-SBG-033 | 11/29/2005 | 62.4 |
| EX-SBG-034 | EX-SBG-034 | 11/29/2005 | 660 |
| EX-SBG-101 | EX-SBG-101 | 6/13/2006 | 5.84 |
| EX-SBG-102 | EX-SBG-102 | 6/13/2006 | 50.1 |
| EX-SBG-103 | EX-SBG-103 | 6/13/2006 | 195 |
| EX-SBG-104 | EX-SBG-104 | 6/13/2006 | 199 |
| EX-SBG-105 | EX-SBG-105 | 6/13/2006 | 94.6 |
| EX-SBG-105 | FD001-061306 | 6/13/2006 | 341 |
| SBG 105R | SBG 105R | 6/27/2006 | 3.57 |
| EX-SBG-106 | EX-SBG-106 | 6/13/2006 | 42.6 |
| EX-SBG-107 | EX-SBG-107 | 6/13/2006 | 411 |
| EX-SBG-107R | EX-SBG-107R | 6/29/2006 | 6.25 |
| EX-SBG-107R | FD002-062906 | 6/29/2006 | 11.1 |
| EX-SBG-108 | EX-SBG-108 | 6/13/2006 | 6.9 |
| EX-SBG-109 | EX-SBG-109 | 6/13/2006 | 313 |
| EX-SBG-109R | EX-SBG-109R | 6/29/2006 | 4.05 |
| EX-SBG-109R | FD003-062906 | 6/29/2006 | 2.96 |
| EX-SBG-110 | EX-SBG-110 | 6/13/2006 | 328 |
| EX-SBG-110R | EX-SBG-110R | 6/29/2006 | 370 |
| EX-SBG-110R | FD004-062906 | 6/29/2006 | 143 |
| EX-SBG-110R2 | EX-SBG-110R2 | 7/18/2006 | 4.81 |
| EX-SBG-111 | EX-SBG-111 | 6/13/2006 | 8.83 |
| EX-SBG-112 | EX-SBG-112 | 6/13/2006 | 173 |
| EX-SBG-113 | EX-SBG-113 | 6/13/2006 | 9.55 |
| EX-SBG-114 | EX-SBG-114 | 6/13/2006 | 53.1 |
| EX-SBG-115 | EX-SBG-115 | 6/13/2006 | 278 |
| EX-SBG-116 | EX-SBG-116 | 6/13/2006 | 312 |
| EX-SBG-116R | EX-SBG-116R | 6/29/2006 | 79.7 |
| EX-SBG-117 | EX-SBG-117 | 6/13/2006 | 418 |
| EX-SBG-117R | EX-SBG-117R | 6/29/2006 | 121 |
| EX-SBG-118 | EX-SBG-118 | 6/13/2006 | 32.4 |
| EX-SBG-119 | EX-SBG-119 | 6/13/2006 | 186 |

**Table 23**
**Soil Lead Closure Data for Penninsula Sand Blast Grit Area**
**Yankee Nuclear Power Station**
**Rowe, MA**

| Station<br>Clean-up Goal (mg/kg)] | Sample ID | Date Sampled | Lead Concentration<br>300 |
|---|---|---|---|
| EX-SBG-120 | EX-SBG-120 | 6/13/2006 | 359 |
| EX-SBG-121 | EX-SBG-121 | 6/13/2006 | 1310 |
| EX-SBG-122 | EX-SBG-122 | 6/13/2006 | 27 |
| EX-SBG-123 | EX-SBG-123 | 6/13/2006 | 105 |
| EX-SBG-124 | EX-SBG-124 | 6/13/2006 | 148 |
| EX-SBG-125 | EX-SBG-125 | 6/13/2006 | 35.5 |
| EX-SBG-126 | EX-SBG-126 | 6/13/2006 | 5.79 |
| EX-SBG-127 | EX-SBG-127 | 6/13/2006 | 357 |
| SBG 127R | SBG 127R | 6/27/2006 | 1.23 |
| EX-SBG-128 | EX-SBG-128 | 6/13/2006 | 299 |
| EX-SBG-129 | EX-SBG-129 | 6/13/2006 | 194 |
| EX-SBG-130 | EX-SBG-130 | 6/13/2006 | 29.9 |
| EX-SBG-131 | EX-SBG-131 | 6/13/2006 | 92.8 |
| EX-SBG-132 | EX-SBG-132 | 6/13/2006 | 102 |
| EX-SBG-133 | EX-SBG-133 | 6/13/2006 | 37.9 |
| EX-SBG-134 | EX-SBG-134 | 6/13/2006 | 343 |
| EX-SBG-134R | EX-SBG-134R | 6/29/2006 | 7 |
| EX-SBG-135 | EX-SBG-135 | 6/13/2006 | 11.8 |
| EX-SBG-136 | EX-SBG-136 | 6/13/2006 | 1410 |
| EX-SBG-136A | EX-SBG-136A | 6/13/2006 | 571 |
| EX-SBG-137 | EX-SBG-137 | 6/13/2006 | 988 |
| EX-SBG-137A | EX-SBG-137A | 6/13/2006 | 122 |
| SBG 238 | SBG 238 | 6/27/2006 | 19.7 |
| SBG 239 | SBG 239 | 6/27/2006 | 6.15 |
| SBG 240 | SBG 240 | 6/27/2006 | 73 |
| SBG 241 | SBG 241 | 6/27/2006 | 176 |
| SBG 242 | SBG 242 | 6/27/2006 | 14.8 |
| SBG 243 | SBG 243 | 6/27/2006 | 381 |
| EX-SBG-243R | EX-SBG-243R | 7/18/2006 | 62.1 |
| SBG 244 | SBG 244 | 6/27/2006 | 44.6 |
| SBG 245 | SBG 245 | 6/27/2006 | 5.29 |
| SBG 246 | SBG 246 | 6/27/2006 | 368 |
| EX-SBG-246R | EX-SBG-246R | 7/18/2006 | 168 |
| SBG 247 | SBG 247 | 6/27/2006 | 181 |

**Table 23**
**Soil Lead Closure Data for Penninsula Sand Blast Grit Area**
**Yankee Nuclear Power Station**
**Rowe, MA**

| Station<br>Clean-up Goal (mg/kg)] | Sample ID | Date Sampled | Lead Concentration<br>300 |
|---|---|---|---|
| SBG 248 | SBG 248 | 6/27/2006 | 64.4 |
| SBG 249 | SBG 249 | 6/27/2006 | 140 |
| SBG 250 | SBG 250 | 6/27/2006 | **467** |
| EX-SBG-250R | EX-SBG-250R | 7/18/2006 | **648** |
| EX-SBG-250R2 | EX-SBG-250R2 | 7/26/2006 | 24.3 |
| SBG 251 | SBG 251 | 6/27/2006 | 34.7 |
| SBG 252 | SBG 252 | 6/27/2006 | 66.8 |
| SBG 253 | SBG 253 | 6/27/2006 | 296 |
| SBG 254 | SBG 254 | 6/27/2006 | 57.6 |
| SBG 255 | SBG 255 | 6/27/2006 | 120 |
| SBG 256 | SBG 256 | 6/27/2006 | **361** |
| EX-SBG-256R | EX-SBG-256R | 7/18/2006 | 28.6 |
| SBG 257 | SBG 257 | 6/27/2006 | **700** |
| EX-SBG-257R | EX-SBG-257R | 7/18/2006 | 47.2 |
| SBG 258 | SBG 258 | 6/27/2006 | 77 |
| SBG 259 | SBG 259 | 6/27/2006 | **427** |
| EX-SBG-259R | EX-SBG-259R | 7/18/2006 | 191 |
| EX-SBG-260 | EX-SBG-260 | 6/29/2006 | 6.98 |
| EX-SBG-261 | EX-SBG-261 | 6/29/2006 | 90 |
| EX-SBG-262 | EX-SBG-262 | 6/29/2006 | 41.6 |
| EX-SBG-263 | EX-SBG-263 | 6/29/2006 | 85.3 |
| EX-SBG-264 | EX-SBG-264 | 6/29/2006 | 64.4 |
| EX-SBG-265 | EX-SBG-265 | 6/29/2006 | 171 |
| EX-SBG-266 | EX-SBG-266 | 6/29/2006 | 40 |
| EX-SBG-267 | EX-SBG-267 | 6/29/2006 | 47.7 |
| EX-SBG-268 | EX-SBG-268 | 6/29/2006 | 5.79 |
| FD005-062906 | FD005-062906 | 6/29/2006 | 48.3 |

Notes:
Units in milligram per kilogram (mg/kg)
**Bold values detected above clean-up goal**
Shaded samples were re-excavated
Clean-up goals based on MCP Method 1 S-1/GW-1 standards

**Table 24**
**Soil Lead Closure Data for South Yard Sand**
**Blast Grit Area**
**Yankee Nuclear Power Station**
**Rowe, MA**

| Station<br>Sample ID<br>Date Sampled | Clean-up Goal | SY-SBG-001<br>SY-SBG-001<br>6/20/2006 | SY-SBG-002<br>SY-SBG-002<br>6/20/2006 | SY-SBG-003<br>SY-SBG-003<br>6/20/2006 | SY-SBG-004<br>SY-SBG-004<br>6/20/2006 | SY-SBG-TP2-0012I<br>SY-SBG-TP2-0012I<br>7/10/2006 | SY-SBG-TP3-0012I<br>SY-SBG-TP3-0012I<br>7/10/2006 | SY-SBG-TP4-0012I<br>SY-SBG-TP4-0012I<br>7/10/2006 | SY-SBG-TP5-0012I<br>SY-SBG-TP5-0012I<br>7/10/2006 | SY-SBG-TP12-18I<br>SY-SBG-TP12-18I<br>7/11/2006 | SY-EX001<br>SY-EX001<br>7/12/2006 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Extractable Petroleum Hydrocarbons (EPH) (mg/kg)*** | | | | | | | | | | | |
| C11-C22 Aromatics | 200 | | | | | | | | | 35.7 U | |
| C19-C36 Aliphatics | 2,500 | | | | | | | | | 35.7 U | |
| C9-C18 Aliphatics | 1,000 | | | | | | | | | 35.7 U | |
| 2-Methylnaphthalene | 4 | | | | | | | | | 0.178 U | |
| Acenaphthene | 20 | | | | | | | | | 0.178 U | |
| Acenaphthylene | 100 | | | | | | | | | 0.178 U | |
| Anthracene | 1,000 | | | | | | | | | 0.178 U | |
| Benzo(a)anthracene | 7 | | | | | | | | | 0.178 U | |
| Benzo(a)pyrene | 2 | | | | | | | | | 0.178 U | |
| Benzo(b)fluoranthene | 7 | | | | | | | | | 0.178 U | |
| Benzo(g,h,i)perylene | 1,000 | | | | | | | | | 0.178 U | |
| Benzo(k)fluoranthene | 70 | | | | | | | | | 0.178 U | |
| Chrysene | 7 | | | | | | | | | 0.178 U | |
| Dibenzo(a,h)anthracene | 0.7 | | | | | | | | | 0.178 U | |
| Fluoranthene | 1,000 | | | | | | | | | 0.178 U | |
| Fluorene | 400 | | | | | | | | | 0.178 U | |
| Indeno(1,2,3-cd)pyrene | 7 | | | | | | | | | 0.178 U | |
| Phenanthrene | 100 | | | | | | | | | 0.178 U | |
| Pyrene | 1,000 | | | | | | | | | 0.178 U | |
| ***Polychlorinated Biphenyls (PCBs) (mg/kg)*** | | | | | | | | | | | |
| Aroclor-1254 | | | 0.0281 U | | 0.028 U | | | | | | |
| Aroclor-1260 | | | 0.0563 | | 0.165 | | | | | | |
| Total PCBs | 1 | | 0.0563 | | 0.165 | | | | | | |
| ***Inorganics (mg/kg)*** | | | | | | | | | | | |
| Barium | 1,000 | 312 | | 430 | | | | | | | |
| Cadmium | 2 | 1.72 | | 2.26 | | | | | | | |
| Chromium | 30 | 336 | | 448 | | | | | | | |
| Lead | 300 | 805 | | 1250 | | 5.27 | 10.6 | 12.2 | 17.4 | | 79.2 |
| Selenium | 400 | 4.54 | | 6.98 | | | | | | | |
| Silver | 100 | 1.89 | | 3.07 | | | | | | | |

Notes:
Summary of detections only
Blank cells were not analyzed
J = Estimated value
U = Below method detection limit
mg/kg = milligram per kilogram
**Bold values detected above clean-up goal**
Shaded samples were re-excavated
Clean-up goals based on MCP Method 1 S-1/GW-1 standards
except PCB Clean-up goal based on TSCA standard

**Table 24**
**Soil Lead Closure Data for South Yard Sand**
**Blast Grit Area**
**Yankee Nuclear Power Station**
**Rowe, MA**

| Station<br>Sample ID<br>Date Sampled | Clean-up Goal | SY-EX002<br>SY-EX002<br>7/12/2006 | SY-EX003<br>SY-EX003<br>7/12/2006 | SY-EX004<br>SY-EX004<br>7/12/2006 | SY-EX005<br>SY-EX005<br>7/12/2006 | SY-EX006<br>SY-EX006<br>7/12/2006 | SY-EX007<br>SY-EX007<br>7/12/2006 | SY-EX008<br>SY-EX008<br>7/12/2006 | SY-EX009<br>SY-EX009<br>7/12/2006 | SY-EX009<br>FD007-071206<br>7/12/2006 | SY-EX010<br>SY-EX010<br>7/12/2006 | SY-EX011<br>SY-EX011<br>7/12/2006 | SY-EX012<br>SY-EX012<br>7/12/2006 | SY-EX013<br>SY-EX013<br>7/12/2006 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Extractable Petroleum Hydrocarbons (EPH) (mg/kg)*** | | | | | | | | | | | | | | |
| C11-C22 Aromatics | 200 | | | | | | | | | | | | | |
| C19-C36 Aliphatics | 2,500 | | | | | | | | | | | | | |
| C9-C18 Aliphatics | 1,000 | | | | | | | | | | | | | |
| 2-Methylnaphthalene | 4 | | | | | | | | | | | | | |
| Acenaphthene | 20 | | | | | | | | | | | | | |
| Acenaphthylene | 100 | | | | | | | | | | | | | |
| Anthracene | 1,000 | | | | | | | | | | | | | |
| Benzo(a)anthracene | 7 | | | | | | | | | | | | | |
| Benzo(a)pyrene | 2 | | | | | | | | | | | | | |
| Benzo(b)fluoranthene | 7 | | | | | | | | | | | | | |
| Benzo(g,h,i)perylene | 1,000 | | | | | | | | | | | | | |
| Benzo(k)fluoranthene | 70 | | | | | | | | | | | | | |
| Chrysene | 7 | | | | | | | | | | | | | |
| Dibenzo(a,h)anthracene | 0.7 | | | | | | | | | | | | | |
| Fluoranthene | 1,000 | | | | | | | | | | | | | |
| Fluorene | 400 | | | | | | | | | | | | | |
| Indeno(1,2,3-cd)pyrene | 7 | | | | | | | | | | | | | |
| Phenanthrene | 100 | | | | | | | | | | | | | |
| Pyrene | 1,000 | | | | | | | | | | | | | |
| ***Polychlorinated Biphenyls (PCBs) (mg/kg)*** | | | | | | | | | | | | | | |
| Aroclor-1254 | | | | | | | | | | | | | | |
| Aroclor-1260 | | | | | | | | | | | | | | |
| Total PCBs | 1 | | | | | | | | | | | | | |
| ***Inorganics (mg/kg)*** | | | | | | | | | | | | | | |
| Barium | 1,000 | | | | | | | | | | | | | |
| Cadmium | 2 | | | | | | | | | | | | | |
| Chromium | 30 | | | | | | | | | | | | | |
| Lead | 300 | 39.1 | 24 | 17.8 | 18.3 | 41 | 9.33 | 3.55 | 45 | 9.91 | 2.08 | 9.04 | 2.51 | 20.6 |
| Selenium | 400 | | | | | | | | | | | | | |
| Silver | 100 | | | | | | | | | | | | | |

Notes:
Summary of detections only
Blank cells were not analyzed
J = Estimated value
U = Below method detection limit
mg/kg = milligram per kilogram
**Bold values detected above clean-up goal**
Shaded samples were re-excavated
Clean-up goals based on MCP Method 1 S-1/GW-1 standards
except PCB Clean-up goal based on TSCA standard

**Table 24**
**Soil Lead Closure Data for South Yard Sand**
**Blast Grit Area**
**Yankee Nuclear Power Station**
**Rowe, MA**

| Station<br>Sample ID<br>Date Sampled | Clean-up Goal | SY-EX014<br>SY-EX014<br>7/12/2006 | SY-EX015<br>SY-EX015<br>7/12/2006 | SY-EX016<br>SY-EX016<br>7/12/2006 | SY-EX017<br>SY-EX017<br>7/12/2006 | SY-EX018<br>SY-EX018<br>7/12/2006 | SY-EX019<br>SY-EX019<br>7/12/2006 | SY-EX020<br>SY-EX020<br>7/13/2006 | SY-EX021<br>SY-EX021<br>7/13/2006 | SY-EX022<br>SY-EX022<br>7/13/2006 | SY-EX023<br>SY-EX023<br>7/13/2006 | SY-EX024<br>SY-EX024<br>7/13/2006 | SY-EX025<br>SY-EX025<br>7/13/2006 | SY-EX026<br>SY-EX026<br>7/13/2006 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Extractable Petroleum Hydrocarbons (EPH) (mg/kg)*** | | | | | | | | | | | | | | |
| C11-C22 Aromatics | 200 | | | | 28.7 U | 32.2 | 389 | | | | 101 | 32.5 U | | 29.2 UJ |
| C19-C36 Aliphatics | 2,500 | | | | 28.7 U | 30.7 U | 128 | | | | 73.6 | 32.5 U | | 29.2 U |
| C9-C18 Aliphatics | 1,000 | | | | 28.7 U | 30.7 U | 562 | | | | 31.6 U | 32.5 U | | 26.4 J |
| 2-Methylnaphthalene | 4 | | | | 0.143 U | 0.153 U | 0.13 J | | | | 0.157 U | 0.162 U | | 0.145 UJ |
| Acenaphthene | 20 | | | | 0.143 U | 0.242 | 0.52 | | | | 0.157 U | 0.162 U | | 0.0626 J |
| Acenaphthylene | 100 | | | | 0.143 U | 0.153 U | 0.0613 J | | | | 0.157 U | 0.162 U | | 0.145 UJ |
| Anthracene | 1,000 | | | | 0.143 U | 0.754 | 0.242 | | | | 0.157 U | 0.162 U | | 0.13 J |
| Benzo(a)anthracene | 7 | | | | 0.143 U | 1.73 | 0.0613 J | | | | 0.157 U | 0.162 U | | 0.172 J |
| Benzo(a)pyrene | 2 | | | | 0.143 U | 1.52 | 0.142 U | | | | 0.0725 J | 0.162 U | | 0.189 J |
| Benzo(b)fluoranthene | 7 | | | | 0.143 UJ | 0.783 | 0.0242 J | | | | 0.0442 J | 0.162 UJ | | 0.0845 J |
| Benzo(g,h,i)perylene | 1,000 | | | | 0.143 U | 0.735 | 0.142 U | | | | 0.0442 J | 0.162 U | | 0.128 J |
| Benzo(k)fluoranthene | 70 | | | | 0.143 U | 1.43 | 0.0328 J | | | | 0.0347 J | 0.162 U | | 0.178 J |
| Chrysene | 7 | | | | 0.143 U | 1.75 | 0.0271 J | | | | 0.0647 J | 0.162 U | | 0.326 J |
| Dibenzo(a,h)anthracene | 0.7 | | | | 0.143 U | 0.292 | 0.142 U | | | | 0.157 U | 0.162 U | | 0.145 UJ |
| Fluoranthene | 1,000 | | | | 0.143 U | 4 | 0.201 | | | | 0.0473 J | 0.162 U | | 0.471 J |
| Fluorene | 400 | | | | 0.143 U | 0.284 | 0.539 | | | | 0.157 U | 0.162 U | | 0.0495 J |
| Indeno(1,2,3-cd)pyrene | 7 | | | | 0.143 U | 0.599 | 0.142 U | | | | 0.157 U | 0.162 U | | 0.0801 J |
| Phenanthrene | 100 | | | | 0.143 U | 2.39 | 1.01 | | | | 0.157 U | 0.162 U | | 0.262 J |
| Pyrene | 1,000 | | | | 0.143 U | 3.21 | 0.362 | | | | 0.0915 J | 0.162 U | | 0.382 J |
| ***Polychlorinated Biphenyls (PCBs) (mg/kg)*** | | | | | | | | | | | | | | |
| Aroclor-1254 | | | | | | | | | | | | | | |
| Aroclor-1260 | | | | | | | | | | | | | | |
| Total PCBs | 1 | | | | | | | | | | | | | |
| ***Inorganics (mg/kg)*** | | | | | | | | | | | | | | |
| Barium | 1,000 | | | | | | | | | | | | | |
| Cadmium | 2 | | | | | | | | | | | | | |
| Chromium | 30 | | | | | | | | | | | | | |
| Lead | 300 | 15 | 6.05 | 3.51 | 3.96 | 2.3 | | 3.56 | 6.75 | 14.6 | 10.7 | 4.61 | 21.6 | 54.8 |
| Selenium | 400 | | | | | | | | | | | | | |
| Silver | 100 | | | | | | | | | | | | | |

Notes:
Summary of detections only
Blank cells were not analyzed
J = Estimated value
U = Below method detection limit
mg/kg = milligram per kilogram
**Bold values detected above clean-up goal**
Shaded samples were re-excavated
Clean-up goals based on MCP Method 1 S-1/GW-1 standards
except PCB Clean-up goal based on TSCA standard

Table 24
Soil Lead Closure Data for South Yard Sand
Blast Grit Area
Yankee Nuclear Power Station
Rowe, MA

| Station<br>Sample ID<br>Date Sampled | Clean-up Goal | SY-EX027<br>SY-EX027<br>7/13/2006 | SY-EX027<br>FD008-071306<br>7/13/2006 | SY-EX028<br>SY-EX028<br>7/13/2006 | SY-EX-029<br>SY-EX-029<br>7/19/2006 | SY-EX-030<br>SY-EX-030<br>7/19/2006 | SY-EX-031<br>SY-EX-031<br>7/19/2006 | SY-EX-032<br>SY-EX-032<br>7/19/2006 | SY-EX-033<br>SY-EX-033<br>7/19/2006 | SY-EX-034<br>SY-EX-034<br>7/19/2006 | SY-EX-035<br>SY-EX-035<br>7/19/2006 | SY-EX-036<br>SY-EX-036<br>7/19/2006 | SY-EX-037<br>SY-EX-037<br>7/19/2006 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Extractable Petroleum Hydrocarbons (EPH) (mg/kg)*** | | | | | | | | | | | | | |
| C11-C22 Aromatics | 200 | | | 31.9 UJ | | | | | | | 27.5 U | 29 U | |
| C19-C36 Aliphatics | 2,500 | | | 31.9 U | | | | | | | 27.5 UJ | 29 U | |
| C9-C18 Aliphatics | 1,000 | | | 31.9 U | | | | | | | 27.5 UJ | 29 U | |
| 2-Methylnaphthalene | 4 | | | 0.159 UJ | | | | | | | 0.137 U | 0.145 U | |
| Acenaphthene | 20 | | | 0.159 UJ | | | | | | | 0.0247 J | 0.145 U | |
| Acenaphthylene | 100 | | | 0.159 UJ | | | | | | | 0.137 U | 0.145 U | |
| Anthracene | 1,000 | | | 0.159 UJ | | | | | | | 0.0495 J | 0.145 U | |
| Benzo(a)anthracene | 7 | | | 0.159 UJ | | | | | | | 0.088 J | 0.145 U | |
| Benzo(a)pyrene | 2 | | | 0.159 UJ | | | | | | | 0.117 J | 0.0363 J | |
| Benzo(b)fluoranthene | 7 | | | 0.159 UJ | | | | | | | 0.0564 J | 0.0203 J | |
| Benzo(g,h,i)perylene | 1,000 | | | 0.159 UJ | | | | | | | 0.137 U | 0.0232 J | |
| Benzo(k)fluoranthene | 70 | | | 0.159 UJ | | | | | | | 0.129 J | 0.0421 J | |
| Chrysene | 7 | | | 0.159 UJ | | | | | | | 0.151 | 0.0479 J | |
| Dibenzo(a,h)anthracene | 0.7 | | | 0.159 UJ | | | | | | | 0.137 U | 0.145 U | |
| Fluoranthene | 1,000 | | | 0.0573 J | | | | | | | 0.245 | 0.0798 J | |
| Fluorene | 400 | | | 0.159 UJ | | | | | | | 0.0206 J | 0.145 U | |
| Indeno(1,2,3-cd)pyrene | 7 | | | 0.159 UJ | | | | | | | 0.137 U | 0.145 U | |
| Phenanthrene | 100 | | | 0.159 UJ | | | | | | | 0.128 J | 0.0537 J | |
| Pyrene | 1,000 | | | 0.0557 J | | | | | | | 0.206 | 0.0682 J | |
| ***Polychlorinated Biphenyls (PCBs) (mg/kg)*** | | | | | | | | | | | | | |
| Aroclor-1254 | | | | | | | | | | | | | |
| Aroclor-1260 | | | | | | | | | | | | | |
| Total PCBs | 1 | | | | | | | | | | | | |
| ***Inorganics (mg/kg)*** | | | | | | | | | | | | | |
| Barium | 1,000 | | | | | | | | | | | | |
| Cadmium | 2 | | | | | | | | | | | | |
| Chromium | 30 | | | | | | | | | | | | |
| Lead | 300 | 10.1 | 10.5 | 12.9 | 40.8 | 64.8 | 35.5 | 3.4 | 4.03 | 7.83 | 83.2 | 22.1 | 53 |
| Selenium | 400 | | | | | | | | | | | | |
| Silver | 100 | | | | | | | | | | | | |

Notes:
Summary of detections only
Blank cells were not analyzed
J = Estimated value
U = Below method detection limit
mg/kg = milligram per kilogram
**Bold values detected above clean-up goal**
Shaded samples were re-excavated
Clean-up goals based on MCP Method 1 S-1/GW-1 standards
except PCB Clean-up goal based on TSCA standard

**Table 24**
**Soil Lead Closure Data for South Yard Sand**
**Blast Grit Area**
**Yankee Nuclear Power Station**
**Rowe, MA**

| Station<br>Sample ID<br>Date Sampled | Clean-up Goal | SY-EX-038<br>SY-EX-038<br>7/19/2006 | SY-EX-039<br>SY-EX-039<br>7/19/2006 | SY-EX-040<br>SY-EX-040<br>7/19/2006 | SY-EX-041<br>SY-EX-041<br>7/19/2006 | SY-EX-041<br>FD009-071906<br>7/19/2006 | SY-EX-042<br>SY-EX-042<br>7/19/2006 |
|---|---|---|---|---|---|---|---|
| ***Extractable Petroleum Hydrocarbons (EPH) (mg/kg)*** | | | | | | | |
| C11-C22 Aromatics | 200 | | | 28.5 UJ | 29.5 UJ | 29.1 UJ | 28.2 UJ |
| C19-C36 Aliphatics | 2,500 | | | 28.5 U | 29.5 U | 29.1 U | 28.2 U |
| C9-C18 Aliphatics | 1,000 | | | 28.5 U | 29.5 U | 29.1 U | 28.2 U |
| 2-Methylnaphthalene | 4 | | | 0.142 UJ | 0.147 UJ | 0.145 UJ | 0.14 UJ |
| Acenaphthene | 20 | | | 0.142 UJ | 0.147 UJ | 0.145 UJ | 0.14 UJ |
| Acenaphthylene | 100 | | | 0.142 UJ | 0.147 UJ | 0.145 UJ | 0.14 UJ |
| Anthracene | 1,000 | | | 0.0427 J | 0.147 UJ | 0.145 UJ | 0.14 UJ |
| Benzo(a)anthracene | 7 | | | 0.142 UJ | 0.147 UJ | 0.145 UJ | 0.14 UJ |
| Benzo(a)pyrene | 2 | | | 0.0299 J | 0.147 UJ | 0.145 UJ | 0.14 UJ |
| Benzo(b)fluoranthene | 7 | | | 0.0214 J | 0.147 UJ | 0.145 UJ | 0.14 UJ |
| Benzo(g,h,i)perylene | 1,000 | | | 0.142 UJ | 0.147 UJ | 0.145 UJ | 0.14 UJ |
| Benzo(k)fluoranthene | 70 | | | 0.0484 J | 0.147 UJ | 0.145 UJ | 0.14 UJ |
| Chrysene | 7 | | | 0.0456 J | 0.147 UJ | 0.145 UJ | 0.14 UJ |
| Dibenzo(a,h)anthracene | 0.7 | | | 0.142 UJ | 0.147 UJ | 0.145 UJ | 0.14 UJ |
| Fluoranthene | 1,000 | | | 0.0669 J | 0.147 UJ | 0.145 UJ | 0.14 UJ |
| Fluorene | 400 | | | 0.142 UJ | 0.147 UJ | 0.145 UJ | 0.14 UJ |
| Indeno(1,2,3-cd)pyrene | 7 | | | 0.142 UJ | 0.147 UJ | 0.145 UJ | 0.14 UJ |
| Phenanthrene | 100 | | | 0.0498 J | 0.147 UJ | 0.145 UJ | 0.14 UJ |
| Pyrene | 1,000 | | | 0.0569 J | 0.147 UJ | 0.145 UJ | 0.14 UJ |
| ***Polychlorinated Biphenyls (PCBs) (mg/kg)*** | | | | | | | |
| Aroclor-1254 | | | | | | | |
| Aroclor-1260 | | | | | | | |
| Total PCBs | 1 | | | | | | |
| ***Inorganics (mg/kg)*** | | | | | | | |
| Barium | 1,000 | | | | | | |
| Cadmium | 2 | | | | | | |
| Chromium | 30 | | | | | | |
| Lead | 300 | 2.65 | 3.32 | 9.31 | 2.36 | 2.26 | 6.79 |
| Selenium | 400 | | | | | | |
| Silver | 100 | | | | | | |

Notes:
Summary of detections only
Blank cells were not analyzed
J = Estimated value
U = Below method detection limit
mg/kg = milligram per kilogram
**Bold values detected above clean-up goal**
Shaded samples were re-excavated
Clean-up goals based on MCP Method 1 S-1/GW-1 standards
except PCB Clean-up goal based on TSCA standard

**Table 25**
**Summary of Remedial Volumes**
**Yankee Nuclear Power Station**
**Rowe, MA**

| Compound | Media | Location | Initial Volume Estimate (Cubic Yards) | Actual Volume Estimate (Cubic Yards) |
|---|---|---|---|---|
| PCBs | Sediment | East Storm Drain | 520 | 305 |
| | | West Storm Drain Ditch | 20 | 365 |
| | | *Subtotal PCB Sediments* | *540* | *670* |
| | Soil | Study Area 1 | 1,925 | 8,030 |
| | | Study Area 2 | 1,481 | 200 |
| | | Study Area 3 | 400 | 1,060 |
| | | Study Area 4 | 1,193 | 890 |
| | | Study Area 5 | - | 3 |
| | | *Subtotal PCB Industrial Area Soils* | *4,999* | *10,183* |
| | | SCFA Area A | | 600 |
| | | SCFA Area B | | 4800 |
| | | SCFA Area C | | 7150 |
| | | *Subtotal Areas A to C* | 3,100 | 12550 |
| | | SCFA Area D | - | 500 |
| | | *Subtotal PCBs SCFA Soils* | *3,100* | *13,050* |
| | | Mid-Lot Waste Debris Pile Area | - | *135* |
| | | Painted Blocks along Deerfield River | - | *1* |
| | | *Subtotal PCB Other Areas* | - | *136* |
| | | *Subtotal PCBs Soil* | *8,099* | *23,369* |
| Dioxin | Soil | Dioxin Area | 278 | 300 |
| Petroleum | Soil | Bulldozer Spill Area | - | 9 |
| | | Drum in Woods | - | 1 |
| | | Firewater Pumphouse Drywell | - | 25 |
| | | Firewater Tank (Tank 55) | - | 275 |
| | | Fuel Oil Tank Area | 150 | 242 |
| | | Fuel Spill 164 Area | - | 2 |
| | | Furlon House Basement | - | 40 |
| | | Rad Waste Area | - | 1 |
| | | Railroad Tie Areas | - | 1 |
| | | Turbine Building Office Area | - | 265 |
| | | *Subtotal Petroleum Soils* | *150* | *861* |
| Lead | Soil | Old Shooting Range | 10 | 80 |
| | | Peninsula Sand Blast Grit Area | - | 430 |
| | | South Yard sand Blast Grit Area | - | 180 |
| | | *Subtotal Lead* | *10* | *690* |
| Other | Soil | Soils generated during decommissioning | 3,000 | |
| | | Contingency | 6,402 | |
| | | Total Sediment | 540 | 670 |
| | | Total Soil | 17,939 | 25,220 |

Notes:
Volumes are approximate.
- = Area not targeted for removal in Phase IV Remedy Implementation Plan, but was identified during Phase IV implementation.

Table 26
Summary of Off-Site Waste Shipments
Yankee Nuclear Power Station
Rowe, MA

| Area Description | Disposal Destination | Waste Shipment ID | Energy Solutions Manifest Number | Date Shipped | Quantity (tons) | Subtotals |
|---|---|---|---|---|---|---|
| Middle Parking Lot | CWM, Model City, NY | NYG 5375079 | | 5/24/2006 | 20.0 | |
| | CWM, Model City, NY | NYG 5375088 | | 5/24/2006 | 20.0 | |
| | CWM, Model City, NY | NYG 5375097 | | 5/24/2006 | 20.0 | |
| | CWM, Model City, NY | NYG 5375106 | | 5/24/2006 | 20.0 | |
| | CWM, Model City, NY | NYG 5375034 | | 5/24/2006 | 20.0 | |
| | CWM, Model City, NY | NYG 5375115 | | 5/24/2006 | 20.0 | |
| | CWM, Model City, NY | NYG 5375124 | | 5/24/2006 | 20.0 | |
| | CWM, Model City, NY | NYG 5375133 | | 5/24/2006 | 20.0 | |
| | CWM, Model City, NY | NYG 5375142 | | 5/24/2006 | 20.0 | |
| | CWM, Model City, NY | NYG 5375151 | | 5/24/2006 | 20.0 | |
| | **Area Subtotal** | | | | | **200** |
| | | | | | | |
| Pile 148 | Energy Solutions/Envirocare, Clive, UT | MA Q 379491 | 0336-03-0070 | 4/18/2006 | 14.5 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379489 | 0336-03-0070 | 4/18/2006 | 14.9 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379490 | 0336-03-0070 | 4/18/2006 | 14.5 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379493 | 0336-03-0070 | 4/18/2006 | 15.6 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379494 | 0336-03-0070 | 4/18/2006 | 17.1 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379495 | 0336-03-0070 | 4/18/2006 | 14.7 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379616 | 0336-03-0071 | 4/24/2006 | 16.7 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379617 | 0336-03-0071 | 4/24/2006 | 14.2 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379618 | 0336-03-0071 | 4/24/2006 | 15.1 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379612 | 0336-03-0071 | 4/24/2006 | 17.2 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379614 | 0336-03-0071 | 4/24/2006 | 17.3 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379615 | 0336-03-0071 | 4/24/2006 | 15.6 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379501 | 0336-03-0072 | 4/25/2006 | 17.3 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379500 | 0336-03-0072 | 4/25/2006 | 17.0 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379499 | 0336-03-0072 | 4/25/2006 | 14.5 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379498 | 0336-03-0072 | 4/26/2006 | 14.9 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379497 | 0336-03-0072 | 4/26/2006 | 16.9 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379496 | 0336-03-0072 | 4/25/2006 | 16.6 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379622 | 0336-03-0073 | 4/27/2006 | 17.2 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379620 | 0336-03-0073 | 4/26/2006 | 16.8 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379619 | 0336-03-0073 | 4/26/2006 | 15.7 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379621 | 0336-03-0073 | 4/26/2006 | 15.3 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379625 | 0336-03-0073 | 4/27/2006 | 17.3 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379624 | 0336-03-0073 | 4/27/2006 | 17.2 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379503 | 0336-03-0074 | 5/12/2006 | 17.1 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379627 | 0336-03-0074 | 5/12/2006 | 17.3 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379502 | 0336-03-0074 | 5/12/2006 | 16.1 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379626 | 0336-03-0074 | 5/12/2006 | 15.2 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379505 | 0336-03-0074 | 5/12/2006 | 16.6 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379504 | 0336-03-0074 | 5/12/2006 | 14.6 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379638 | 0336-03-0075 | 5/17/2006 | 8.3 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379632 | 0336-03-0076 | 6/28/2006 | 11.5 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379604 | 0336-03-0076 | 6/27/2006 | 11.7 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379606 | 0336-03-0076 | 6/28/2006 | 17.0 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379631 | 0336-03-0076 | 6/27/2006 | 14.4 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379633 | 0336-03-0076 | 6/28/2006 | 8.7 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379635 | 0336-03-0076 | 6/28/2006 | 11.3 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379630 | 0336-03-0076 | 6/28/2006 | 15.4 | |
| | **Area Subtotal** | | | | | **579** |
| | | | | | | |
| Pile 159 | Energy Solutions/Envirocare, Clive, UT | | 0336-11-0190 | 3/22/2006 | 102.6 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-11-0191 | 3/22/2006 | 102.6 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-11-0192 | 3/23/2006 | 102.6 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-11-0193 | 3/23/2006 | 102.6 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-11-0194 | 3/23/2006 | 102.6 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-11-0195 | 3/27/2006 | 102.6 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-11-0196 | 3/27/2006 | 102.6 | |
| | **Area Subtotal** | | | | | **718** |
| | | | | | | |

Table 26
Summary of Off-Site Waste Shipments
Yankee Nuclear Power Station
Rowe, MA

| Area Description | Disposal Destination | Waste Shipment ID | Energy Solutions Manifest Number | Date Shipped | Quantity (tons) | Subtotals |
|---|---|---|---|---|---|---|
| Pile 47 | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0229 | 4/3/2006 | 102.6 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0230 | 4/3/2006 | 102.6 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0231 | 4/3/2006 | 102.6 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0232 | 4/3/2006 | 102.6 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0233 | 4/3/2006 | 102.6 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0234 | 4/3/2006 | 102.6 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379570 | 0336-03-0063 | 11/30/2005 | 15.2 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379569 | 0336-03-0063 | 11/30/2005 | 14.8 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379568 | 0336-03-0063 | 11/30/2005 | 15.7 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379567 | 0336-03-0063 | 11/30/2005 | 17.2 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379566 | 0336-03-0063 | 11/30/2005 | 20.3 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379565 | 0336-03-0063 | 11/30/2005 | 19.1 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379575 | 0336-03-0064 | 12/6/2005 | 7.0 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379588 | 0336-03-0067 | 12/13/2005 | 3.8 | |
| | **Area Subtotal** | | | | | **728** |
| | | | | | | |
| Pile 151/152 | Energy Solutions/Envirocare, Clive, UT | | 0336-11-0197 | 3/27/2006 | 102.6 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-11-0198 | 3/28/2006 | 102.6 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-11-0199 | 3/28/2006 | 102.6 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-11-0200 | 3/28/2006 | 102.6 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0223 | 3/29/2006 | 107.6 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0224 | 3/29/2006 | 107.6 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0225 | 3/29/2006 | 107.6 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0226 | 3/30/2006 | 107.6 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0227 | 3/30/2006 | 107.6 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0228 | 3/30/2006 | 107.6 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0235 | 4/4/2006 | 102.6 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0236 | 4/4/2006 | 102.6 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0237 | 4/4/2006 | 102.6 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0238 | 4/4/2006 | 102.6 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0239 | 4/4/2006 | 102.6 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0240 | 4/6/2006 | 102.6 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379348 | 0336-03-0047A | 10/26/2005 | 17.2 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379349 | 0336-03-0047B | 10/26/2005 | 17.6 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379350 | 0336-03-0047C | 10/25/2005 | 13.6 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379351 | 0336-03-0047D | 10/25/2005 | 18.0 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379352 | 0336-03-0047E | 10/26/2005 | 16.9 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379353 | 0336-03-0047F | 10/25/2005 | 16.0 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379354 | 0336-03-0048A | 10/26/2005 | 15.5 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379355 | 0336-03-0048B | 10/27/2005 | 17.0 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379356 | 0336-03-0048C | 10/26/2005 | 14.6 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379357 | 0336-03-0048D | 10/26/2005 | 18.5 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379359 | 0336-03-0048E | 10/26/2005 | 16.0 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379358 | 0336-03-0048F | 10/26/2005 | 15.3 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379360 | 0336-03-0049A | 10/27/2005 | 18.1 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379361 | 0336-03-0049B | 10/27/2005 | 17.9 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379451 | 0336-03-0049C | 10/28/2005 | 15.1 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379512 | 0336-03-0049F | 10/28/2005 | 14.3 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379510 | 0336-03-0050A | 10/31/2005 | 17.6 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379511 | 0336-03-0050B | 10/31/2005 | 17.3 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379458 | 0336-03-0050C | 10/31/2005 | 16.0 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379455 | 0336-03-0050D | 10/31/2005 | 17.8 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379457 | 0336-03-0050E | 10/31/2005 | 16.4 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379456 | 0336-03-0050F | 10/31/2005 | 15.7 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379459 | 0336-03-0052A | 10/31/2005 | 13.5 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379460 | 0336-03-0052B | 10/31/2005 | 17.6 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379461 | 0336-03-0052C | 10/31/2005 | 16.1 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379462 | 0336-03-0052D | 10/31/2005 | 16.7 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379463 | 0336-03-0052E | 10/31/2005 | 19.1 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379464 | 0336-03-0052F | 10/31/2005 | 15.7 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379466 | 0336-03-0053A | 11/2/2005 | 17.4 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379465 | 0336-03-0053B | 11/2/2005 | 16.8 | |

Table 26
Summary of Off-Site Waste Shipments
Yankee Nuclear Power Station
Rowe, MA

| Area Description | Disposal Destination | Waste Shipment ID | Energy Solutions Manifest Number | Date Shipped | Quantity (tons) | Subtotals |
|---|---|---|---|---|---|---|
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379471 | 0336-03-0053C | 11/2/2005 | 17.4 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379470 | 0336-03-0053D | 11/2/2005 | 15.0 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379469 | 0336-03-0053E | 11/2/2005 | 14.5 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379467 | 0336-03-0053F | 11/2/2005 | 17.7 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379473 | 0336-03-0054A | 11/3/2005 | 19.6 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379472 | 0336-03-0054B | 11/3/2005 | 20.0 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379474 | 0336-03-0054C | 11/3/2005 | 19.0 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379475 | 0336-03-0054D | 11/3/2005 | 19.6 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379476 | 0336-03-0054E | 11/3/2005 | 19.1 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379477 | 0336-03-0054F | 11/3/2005 | 17.8 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379480 | 0336-03-0055A | 11/3/2005 | 17.9 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379478 | 0336-03-0055B | 11/3/2005 | 17.7 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379479 | 0336-03-0055C | 11/4/2005 | 17.4 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379482 | 0336-03-0055D | 11/3/2005 | 16.2 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379481 | 0336-03-0055E | 11/3/2005 | 14.6 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379483 | 0336-03-0055F | 11/4/2005 | 14.7 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379484 | 0336-03-0056A | 11/7/2005 | 21.0 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379513 | 0336-03-0056B | 11/7/2005 | 21.7 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379514 | 0336-03-0056C | 11/7/2005 | 19.6 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379515 | 0336-03-0056D | 11/7/2005 | 20.0 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379516 | 0336-03-0056E | 11/7/2005 | 19.1 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379517 | 0336-03-0056F | 11/7/2005 | 15.1 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379520 | 0336-03-0057A | 11/9/2005 | 17.0 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379521 | 0336-03-0057B | 11/9/2005 | 17.1 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379522 | 0336-03-0057C | 11/9/2005 | 15.7 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379523 | 0336-03-0057D | 11/9/2005 | 16.3 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379524 | 0336-03-0057E | 11/10/2005 | 14.7 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379525 | 0336-03-0057F | 11/9/2005 | 12.2 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379518 | 0336-03-0058A | 11/9/2005 | 19.3 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379526 | 0336-03-0058B | 11/9/2005 | 20.0 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379527 | 0336-03-0058C | 11/10/2005 | 18.8 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379528 | 0336-03-0058D | 11/9/2005 | 19.0 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379529 | 0336-03-0058E | 11/10/2005 | 20.4 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379530 | 0336-03-0058F | 11/9/2005 | 17.6 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379534 | 0336-03-0059A | 11/14/2005 | 20.0 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379536 | 0336-03-0059B | 11/14/2005 | 20.9 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379537 | 0336-03-0059C | 11/14/2005 | 21.5 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379533 | 0336-03-0059D | 11/14/2005 | 19.4 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379532 | 0336-03-0059E | 11/14/2005 | 19.6 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379531 | 0336-03-0059F | 11/14/2005 | 19.2 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379540 | 0336-03-0060A | 11/16/2005 | 21.7 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379538 | 0336-03-0060B | 11/16/2005 | 19.6 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379539 | 0336-03-0060C | 11/16/2005 | 18.4 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379556 | 0336-03-0060D | 11/16/2005 | 14.6 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379548 | 0336-03-0060E | 11/16/2005 | 17.5 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379543 | 0336-03-0061E | 11/17/2005 | 17.6 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379544 | 0336-03-0061F | 11/17/2005 | 20.5 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379564 | 0336-03-0062B | 11/22/2005 | 13.9 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379561 | 0336-03-0062D | 11/22/2005 | 19.4 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379562 | 0336-03-0062E | 11/22/2005 | 15.8 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379573 | 0336-03-0065A | 12/7/2005 | 17.8 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379574 | 0336-03-0065B | 12/7/2005 | 17.0 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379572 | 0336-03-0065C | 12/7/2005 | 14.8 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379571 | 0336-03-0065D | 12/7/2005 | 15.8 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379545 | 0336-03-0065E | 12/7/2005 | 14.5 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379547 | 0336-03-0065F | 12/7/2005 | 13.5 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379599 | 0336-03-0068A | 12/9/2005 | 20.9 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379600 | 0336-03-0068B | 12/20/2005 | 20.7 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379601 | 0336-03-0068C | 12/9/2005 | 18.1 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379602 | 0336-03-0068D | 12/20/2005 | 20.4 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379550 | 0336-03-0068E | 12/19/2005 | 18.9 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379551 | 0336-03-0068F | 12/9/2005 | 18.0 | |

Table 26
Summary of Off-Site Waste Shipments
Yankee Nuclear Power Station
Rowe, MA

| Area Description | Disposal Destination | Waste Shipment ID | Energy Solutions Manifest Number | Date Shipped | Quantity (tons) | Subtotals |
|---|---|---|---|---|---|---|
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379592 | 0336-03-0069A | 12/22/2005 | 16.3 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379593 | 0336-03-0069B | 12/22/2005 | 17.7 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379594 | 0336-03-0069C | 12/22/2005 | 17.6 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379595 | 0336-03-0069D | 12/22/2005 | 18.9 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379596 | 0336-03-0069E | 12/22/2005 | 17.4 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379597 | 0336-03-0069F | 12/22/2005 | 15.3 | |
| | **Area Subtotal** | | | | | **3,382** |
| | | | | | | |
| Service Building Area/RAD Lab Sump/Chem Lab | R.A.C.E. LLC, Memphis, TN | MAD01959739299287 | | 11/15/2004 | 20.7 | |
| | R.A.C.E. LLC, Memphis, TN | MAD01959739299288 | | 11/15/2004 | 25.7 | |
| | R.A.C.E. LLC, Memphis, TN | MAD01959739299289 | | 11/16/2004 | 23.4 | |
| | R.A.C.E. LLC, Memphis, TN | MAD01959739299290 | | 11/15/2004 | 20.2 | |
| | R.A.C.E. LLC, Memphis, TN | MAD01959739299291 | | 11/17/2004 | 21.0 | |
| | R.A.C.E. LLC, Memphis, TN | MAD01959739299292 | | 11/16/2004 | 18.6 | |
| | R.A.C.E. LLC, Memphis, TN | MAD01959739299293 | | 11/16/2004 | 22.8 | |
| | R.A.C.E. LLC, Memphis, TN | MAD01959739299294 | | 11/17/2004 | 23.5 | |
| | R.A.C.E. LLC, Memphis, TN | MAD01959739299295 | | 11/17/2004 | 26.0 | |
| | **Area Subtotal** | | | | | **202** |
| | | | | | | |
| Maxy Sludge Drums | Energy Solutions/Envirocare, Clive, UT | MA Q 379603 | 0336-03-0077 | 8/2/2006 | 98.1 | **98** |
| | | | | | | |
| Radwaste Building Complex Area | Energy Solutions/Envirocare, Clive, UT | MA Q 379578 | 0336-03-0066 | 12/7/2005 | 17.3 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379579 | 0336-03-0066 | 12/7/2005 | 17.3 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379580 | 0336-03-0066 | 12/7/2005 | 14.2 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379452 | 0336-03-0049 | 10/27/2005 | 17.5 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379453 | 0336-03-0049 | 10/27/2005 | 14.1 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379383 | 0336-03-0039 | 8/4/2005 | 14.4 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379384 | 0336-03-0039 | 8/4/2005 | 12.5 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379386 | 0336-03-0039 | 8/4/2005 | 13.3 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379330 | 0336-03-0037 | 6/30/2005 | 17.8 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379331 | 0336-03-0037 | 6/30/2005 | 18.6 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379332 | 0336-03-0037 | 6/30/2005 | 14.2 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379334 | 0336-03-0037 | 6/30/2005 | 16.1 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379335 | 0336-03-0037 | 6/30/2005 | 16.4 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379303 | 0336-03-0030 | 6/9/2005 | 19.5 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379306 | 0336-03-0030 | 6/9/2005 | 17.8 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379307 | 0336-03-0030 | 6/9/2005 | 21.2 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379308 | 0336-03-0030 | 6/9/2005 | 20.2 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379296 | 0336-03-0030 | 6/9/2005 | 20.4 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379302 | 0336-03-0030 | 6/9/2005 | 20.9 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379292 | 0336-03-0024 | 5/19/2005 | 19.5 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379297 | 0336-03-0024 | 5/19/2005 | 19.5 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379298 | 0336-03-0024 | 5/19/2005 | 20.5 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379299 | 0336-03-0024 | 5/19/2005 | 20.8 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379300 | 0336-03-0024 | 5/19/2005 | 17.8 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379311 | 0336-03-0024 | 5/19/2005 | 20.8 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379293 | 0336-03-0022 | 5/12/2005 | 20.4 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379280 | 0336-03-0022 | 5/12/2005 | 17.2 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379279 | 0336-03-0022 | 5/12/2005 | 19.9 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379294 | 0336-03-0022 | 5/12/2005 | 18.1 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379289 | 0336-03-0022 | 5/12/2005 | 20.2 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379295 | 0336-03-0022 | 5/12/2005 | 21.1 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379268 | 0336-03-0019 | 5/9/2005 | 20.7 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379267 | 0336-03-0019 | 5/9/2005 | 24.7 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379266 | 0336-03-0019 | 5/9/2005 | 23.6 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379265 | 0336-03-0019 | 5/9/2005 | 23.6 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379269 | 0336-03-0019 | 5/9/2005 | 18.7 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379270 | 0336-03-0020 | 5/10/2005 | 25.7 | |

Table 26
Summary of Off-Site Waste Shipments
Yankee Nuclear Power Station
Rowe, MA

| Area Description | Disposal Destination | Waste Shipment ID | Energy Solutions Manifest Number | Date Shipped | Quantity (tons) | Subtotals |
|---|---|---|---|---|---|---|
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379271 | 0336-03-0020 | 5/10/2005 | 19.7 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379274 | 0336-03-0020 | 5/10/2005 | 17.0 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379275 | 0336-03-0020 | 5/10/2005 | 21.4 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379276 | 0336-03-0020 | 5/10/2005 | 21.4 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379277 | 0336-03-0020 | 5/10/2005 | 19.4 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379281 | 0336-03-0021 | 5/11/2005 | 20.0 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379282 | 0336-03-0021 | 5/11/2005 | 23.7 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379283 | 0336-03-0021 | 5/11/2005 | 15.5 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379284 | 0336-03-0021 | 5/11/2005 | 20.0 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379285 | 0336-03-0021 | 5/11/2005 | 18.2 | |
| | Energy Solutions/Envirocare, Clive, UT | MA Q 379286 | 0336-03-0021 | 5/11/2005 | 21.2 | |
| | **Area Subtotal** | | | | | **915** |
| | | | | | | |
| PCB/Lead Waste from SCFA | CWM, Model City, NY | NYG 0644913 | | 9/8/2005 | 18.0 | |
| | CWM, Model City, NY | NYG 0644922 | | 9/12/2005 | 18.0 | |
| | CWM, Model City, NY | NYG 0644931 | | 9/12/2005 | 18.0 | |
| | CWM, Model City, NY | NYG 0644949 | | 9/12/2005 | 18.0 | |
| | CWM, Model City, NY | NYG 0644958 | | 9/12/2005 | 18.0 | |
| | CWM, Model City, NY | NYG 0644967 | | 9/12/2005 | 18.0 | |
| | CWM, Model City, NY | NYG 0644976 | | 9/12/2005 | 18.0 | |
| | CWM, Model City, NY | NYG 5353713 | | 9/1/2005 | 18.0 | |
| | CWM, Model City, NY | NYG 5353722 | | 9/1/2005 | 18.0 | |
| | CWM, Model City, NY | NYG 0644895 | | 9/8/2005 | 18.0 | |
| | CWM, Model City, NY | NYG 0644904 | | 9/8/2005 | 18.0 | |
| | **Area Subtotal** | | | | | **198** |
| | | | | | | |
| SCFA PCB/Asbestos Waste | WMNH-TREE, Rochester, NH | T414 | | 11/4/2005 | 26.0 | |
| | WMNH-TREE, Rochester, NH | 092301A | | 9/23/2005 | 26.0 | |
| | WMNH-TREE, Rochester, NH | 092302A | | 9/23/2005 | 26.0 | |
| | WMNH-TREE, Rochester, NH | 052303A | | 9/29/2005 | 26.0 | |
| | WMNH-TREE, Rochester, NH | 2 | | 9/22/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 4 | | 9/22/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 6 | | 9/22/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 0926052A | | 9/26/2005 | 26.0 | |
| | WMNH-TREE, Rochester, NH | 0929051A | | 9/26/2005 | 26.0 | |
| | WMNH-TREE, Rochester, NH | 0926051A | | 9/26/2005 | 26.0 | |
| | WMNH-TREE, Rochester, NH | 092905-27 | | 9/29/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 092905-28 | | 9/29/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 092905-29 | | 9/29/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 092905-30 | | 9/29/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 092905-31 | | 9/30/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 092905-32 | | 9/29/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 092905-33 | | 9/29/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 092905-34 | | 9/29/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 092905-35 | | 9/29/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 092905-36 | | 9/29/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 0930051A | | 9/30/2005 | 26.0 | |
| | WMNH-TREE, Rochester, NH | 0930052A | | 9/30/2005 | 26.0 | |
| | WMNH-TREE, Rochester, NH | 092205-30 | | 9/22/2005 | 26.0 | |
| | WMNH-TREE, Rochester, NH | 092205-31 | | 9/22/2005 | 26.0 | |
| | WMNH-TREE, Rochester, NH | 092205-32 | | 9/22/2005 | 26.0 | |
| | WMNH-TREE, Rochester, NH | 100305#1 | | 10/3/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 100305#2 | | 10/3/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 100305#3 | | 10/3/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 100305#4 | | 10/3/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 100305#5 | | 10/3/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 100305#6 | | 10/3/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 100305#7 | | 10/3/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 100305#8 | | 10/3/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 100305#9 | | 10/3/2005 | 15.6 | |

Table 26
Summary of Off-Site Waste Shipments
Yankee Nuclear Power Station
Rowe, MA

| Area Description | Disposal Destination | Waste Shipment ID | Energy Solutions Manifest Number | Date Shipped | Quantity (tons) | Subtotals |
|---|---|---|---|---|---|---|
| | WMNH-TREE, Rochester, NH | 100305#10 | | 10/3/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 100305#11 | | 10/3/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 100305#12 | | 10/3/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 100305#13 | | 10/3/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 100405#1 | | 10/4/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 100405#2 | | 10/4/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 100405#3 | | 10/4/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 100405#4 | | 10/4/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 100405#5 | | 10/4/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 100405#6 | | 10/4/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 100405#7 | | 10/4/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 100405#8 | | 10/4/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 100405#9 | | 10/4/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 100405#10 | | 10/4/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 100405#11 | | 10/4/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 100405#12 | | 10/4/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 100405#13 | | 10/4/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 100405#14 | | 10/4/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 100405#15 | | 10/4/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 100405#16 | | 10/4/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 100505-2 | | 10/5/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 100505-3 | | 10/5/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 100505-4 | | 10/5/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 100505-5 | | 10/5/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 100505-6 | | 10/5/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 100505-7 | | 10/5/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 100505-8 | | 10/5/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 100505-9 | | 10/5/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 100505-10 | | 10/5/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 100505-11 | | 10/5/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 100505-12 | | 10/5/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 100505-13 | | 10/5/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 100505-14 | | 10/5/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 100505-15 | | 10/5/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 100605-1 | | 10/6/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 100605-2 | | 10/6/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 100605-3 | | 10/6/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 100605-4 | | 10/6/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 100605-5 | | 10/6/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 100605-6 | | 10/6/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 100605-7 | | 10/6/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 100605-8 | | 10/6/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 100605-9 | | 10/6/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 100605-10 | | 10/6/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 100605-11 | | 10/6/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 100605-12 | | 10/6/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 101205-1 | | 10/12/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 101205-2 | | 10/12/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 101205-3 | | 10/12/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 101205-4 | | 10/12/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 101205-5 | | 10/12/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 101305-1 | | 10/13/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 101305-2 | | 10/13/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 101305-3 | | 10/13/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 101305-4 | | 10/13/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 101305-5 | | 10/13/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 101705-1 | | 10/17/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 101705-2 | | 10/17/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 101705-3 | | 10/17/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 101705-4 | | 10/17/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 101705-5 | | 10/17/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 101805-1 | | 10/18/2005 | 15.6 | |

Table 26
Summary of Off-Site Waste Shipments
Yankee Nuclear Power Station
Rowe, MA

| Area Description | Disposal Destination | Waste Shipment ID | Energy Solutions Manifest Number | Date Shipped | Quantity (tons) | Subtotals |
|---|---|---|---|---|---|---|
| | WMNH-TREE, Rochester, NH | 101805-2 | | 10/18/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 101805-3 | | 10/18/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 101805-4 | | 10/18/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 101805-5 | | 10/18/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 101905-1 | | 10/19/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 101905-2 | | 10/19/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 101905-3 | | 10/19/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 101905-4 | | 10/19/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 101905-5 | | 10/19/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 101905-6 | | 10/19/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 101905-7 | | 10/19/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 101905-8 | | 10/19/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 101905-9 | | 10/19/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 101905-10 | | 10/19/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 102005-1 | | 10/20/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 102005-2 | | 10/20/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 102005-3 | | 10/20/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 102005-4 | | 10/20/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 102005-5 | | 10/20/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 102005-6 | | 10/20/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 102005-7 | | 10/20/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 102005-8 | | 10/20/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 102005-9 | | 10/20/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 102005-10 | | 10/20/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 102005-11 | | 10/20/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 102005-12 | | 10/20/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 10200501A | | 10/20/2005 | 26.0 | |
| | WMNH-TREE, Rochester, NH | 10200502A | | 10/20/2005 | 26.0 | |
| | WMNH-TREE, Rochester, NH | 10200203A | | 10/20/2005 | 26.0 | |
| | WMNH-TREE, Rochester, NH | 2346 | | 9/15/2005 | 32.5 | |
| | WMNH-TREE, Rochester, NH | 2347 | | 9/15/2005 | 32.5 | |
| | WMNH-TREE, Rochester, NH | 2348 | | 9/15/2005 | 32.5 | |
| | WMNH-TREE, Rochester, NH | 2349 | | 9/15/2005 | 33.8 | |
| | WMNH-TREE, Rochester, NH | 2350 | | 9/15/2005 | 32.5 | |
| | WMNH-TREE, Rochester, NH | 2351 | | 9/20/2005 | 32.5 | |
| | WMNH-TREE, Rochester, NH | 2352 | | 9/20/2005 | 32.5 | |
| | WMNH-TREE, Rochester, NH | 2353 | | 9/20/2005 | 32.5 | |
| | WMNH-TREE, Rochester, NH | 2354 | | 9/20/2005 | 32.5 | |
| | WMNH-TREE, Rochester, NH | 2355 | | 9/20/2005 | 32.5 | |
| | WMNH-TREE, Rochester, NH | 2356 | | 9/21/2005 | 32.5 | |
| | WMNH-TREE, Rochester, NH | 2357 | | 9/21/2005 | 32.5 | |
| | WMNH-TREE, Rochester, NH | 2358 | | 9/21/2005 | 32.5 | |
| | WMNH-TREE, Rochester, NH | 2359 | | 9/22/2005 | 32.5 | |
| | WMNH-TREE, Rochester, NH | 2360 | | 9/21/2005 | 32.5 | |
| | WMNH-TREE, Rochester, NH | 2361 | | 9/21/2005 | 32.5 | |
| | **Area Subtotal** | | | | | **2,627** |
| | | | | | | |
| SCFA | TLR III - RDF, Rochester, NH | 31219 | | 9/13/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 33376 | | 11/14/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32841 | | 11/18/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32844 | | 11/18/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 33357 | | 11/11/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 33358 | | 11/11/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 33359 | | 11/11/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 33360 | | 11/11/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 33361 | | 11/11/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 33362 | | 11/11/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 33363 | | 11/11/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 33364 | | 11/11/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 33365 | | 11/11/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 33366 | | 11/11/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 33367 | | 11/11/2005 | 22.0 | |

Table 26
Summary of Off-Site Waste Shipments
Yankee Nuclear Power Station
Rowe, MA

| Area Description | Disposal Destination | Waste Shipment ID | Energy Solutions Manifest Number | Date Shipped | Quantity (tons) | Subtotals |
|---|---|---|---|---|---|---|
| | TLR III - RDF, Rochester, NH | 33368 | | 11/11/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 33369 | | 11/11/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 33370 | | 11/11/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 33371 | | 11/11/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 33372 | | 11/11/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32802 | | 11/9/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32803 | | 11/9/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32804 | | 11/9/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32805 | | 11/9/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32806 | | 11/9/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32807 | | 11/9/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32808 | | 11/9/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32809 | | 11/9/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32810 | | 11/9/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32811 | | 11/9/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32812 | | 11/9/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32813 | | 11/9/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32814 | | 11/9/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32815 | | 11/10/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32816 | | 11/10/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32817 | | 11/10/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32818 | | 11/10/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32819 | | 11/10/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32820 | | 11/10/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32821 | | 11/10/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32822 | | 11/10/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32824 | | 12/5/2005 | 32.0 | |
| | TLR III - RDF, Rochester, NH | 32836 | | 12/5/2005 | 39.9 | |
| | TLR III - RDF, Rochester, NH | 32832 | | 11/28/2005 | 16.3 | |
| | TLR III - RDF, Rochester, NH | 32833 | | 11/28/2005 | 20.3 | |
| | TLR III - RDF, Rochester, NH | 32834 | | 11/28/2005 | 19.1 | |
| | TLR III - RDF, Rochester, NH | 32835 | | 11/28/2005 | 20.6 | |
| | TLR III - RDF, Rochester, NH | 32837 | | 11/28/2005 | 20.3 | |
| | TLR III - RDF, Rochester, NH | 33300 | | 11/28/2005 | 20.1 | |
| | TLR III - RDF, Rochester, NH | 33373 | | 11/14/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 33374 | | 11/14/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 33375 | | 11/14/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 33377 | | 11/14/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 33378 | | 11/14/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 33379 | | 11/14/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 33380 | | 11/14/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 33381 | | 11/14/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 33382 | | 11/14/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 33383 | | 11/14/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 33384 | | 11/14/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 33385 | | 11/14/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 33386 | | 11/14/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 33387 | | 11/14/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 33388 | | 11/14/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 33389 | | 11/14/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32843 | | 11/14/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 33299 | | 12/8/2005 | 21.4 | |
| | TLR III - RDF, Rochester, NH | 32127 | | 10/8/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32132 | | 10/7/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32133 | | 10/7/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32134 | | 10/7/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32135 | | 10/5/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32136 | | 10/3/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32137 | | 10/3/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32146 | | 10/7/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32170 | | 10/7/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31992 | | 10/7/2005 | 22.0 | |

Table 26
Summary of Off-Site Waste Shipments
Yankee Nuclear Power Station
Rowe, MA

| Area Description | Disposal Destination | Waste Shipment ID | Energy Solutions Manifest Number | Date Shipped | Quantity (tons) | Subtotals |
|---|---|---|---|---|---|---|
| | TLR III - RDF, Rochester, NH | 32115 | | 10/7/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32116 | | 10/7/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32117 | | 10/3/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32118 | | 10/3/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32119 | | 10/3/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32120 | | 10/3/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32121 | | 10/3/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32122 | | 10/3/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32123 | | 10/3/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32124 | | 10/3/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32125 | | 10/3/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32126 | | 10/3/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32111 | | 10/21/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32112 | | 10/21/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32113 | | 10/21/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32128 | | 10/21/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32129 | | 10/21/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32130 | | 10/21/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32131 | | 10/21/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32143 | | 10/21/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32144 | | 10/21/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32145 | | 10/21/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32147 | | 10/21/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32148 | | 10/21/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32149 | | 10/21/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32150 | | 10/21/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32853 | | 10/21/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32854 | | 10/21/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31991 | | 10/14/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31993 | | 10/14/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31994 | | 10/11/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31995 | | 10/11/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31996 | | 10/11/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31997 | | 10/11/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31998 | | 10/11/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31999 | | 10/11/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32000 | | 10/14/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32114 | | 10/14/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32138 | | 10/7/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32139 | | 10/7/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32140 | | 10/11/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32141 | | 10/11/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32142 | | 10/14/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32022 | | 9/30/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32024 | | 9/28/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32025 | | 9/28/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32026 | | 9/28/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32027 | | 9/28/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32028 | | 9/30/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32029 | | 9/30/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32030 | | 9/30/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32031 | | 9/30/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32032 | | 9/30/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32033 | | 9/30/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32034 | | 9/30/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32035 | | 9/30/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32036 | | 9/28/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32037 | | 9/28/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32038 | | 9/28/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32001 | | 9/28/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32002 | | 9/28/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32003 | | 9/28/2005 | 22.0 | |

Table 26
Summary of Off-Site Waste Shipments
Yankee Nuclear Power Station
Rowe, MA

| Area Description | Disposal Destination | Waste Shipment ID | Energy Solutions Manifest Number | Date Shipped | Quantity (tons) | Subtotals |
|---|---|---|---|---|---|---|
| | TLR III - RDF, Rochester, NH | 32004 | | 9/28/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32005 | | 9/28/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32006 | | 9/28/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32007 | | 9/28/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32008 | | 9/28/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32009 | | 9/28/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32010 | | 9/28/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32011 | | 9/28/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32012 | | 9/28/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32013 | | 9/28/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32014 | | 9/28/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32015 | | 9/28/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32016 | | 9/30/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32017 | | 9/30/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32018 | | 9/30/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32019 | | 9/30/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32020 | | 9/30/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32021 | | 9/30/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32023 | | 9/28/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32039 | | 9/28/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32040 | | 9/28/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32041 | | 9/28/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32042 | | 9/28/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32043 | | 9/26/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32044 | | 9/26/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32045 | | 9/26/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32046 | | 9/26/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32047 | | 9/26/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32048 | | 9/26/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32049 | | 9/26/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32050 | | 9/27/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32051 | | 9/27/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32052 | | 9/27/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32053 | | 9/27/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32055 | | 9/27/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32056 | | 9/27/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32057 | | 9/27/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32058 | | 9/27/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32059 | | 9/27/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32060 | | 9/27/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32061 | | 9/27/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32062 | | 9/27/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32063 | | 9/27/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32064 | | 9/27/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32065 | | 9/27/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32066 | | 9/27/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32067 | | 9/27/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32068 | | 9/27/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32069 | | 9/27/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32070 | | 9/27/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32071 | | 9/27/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32072 | | 9/27/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32073 | | 9/27/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32074 | | 9/27/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32075 | | 9/27/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32078 | | 9/27/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32079 | | 9/27/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32080 | | 9/27/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32081 | | 9/27/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32082 | | 9/27/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32083 | | 9/27/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32084 | | 9/27/2005 | 22.0 | |

Table 26
Summary of Off-Site Waste Shipments
Yankee Nuclear Power Station
Rowe, MA

| Area Description | Disposal Destination | Waste Shipment ID | Energy Solutions Manifest Number | Date Shipped | Quantity (tons) | Subtotals |
|---|---|---|---|---|---|---|
| | TLR III - RDF, Rochester, NH | 32085 | | 9/27/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32086 | | 9/27/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32087 | | 9/27/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32088 | | 9/27/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32089 | | 9/27/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32090 | | 9/27/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32091 | | 9/27/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32092 | | 9/27/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32093 | | 9/28/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32094 | | 9/28/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32095 | | 9/30/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32096 | | 9/30/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32097 | | 9/30/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32098 | | 9/30/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32099 | | 9/30/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32100 | | 9/30/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32101 | | 9/30/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32102 | | 9/30/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32103 | | 9/30/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32104 | | 9/30/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32105 | | 9/30/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32106 | | 9/30/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32107 | | 9/30/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32108 | | 9/30/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32109 | | 9/30/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32110 | | 9/30/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32151 | | 9/29/2006 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32152 | | 9/29/2006 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32153 | | 9/29/2006 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32154 | | 9/29/2006 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32155 | | 9/29/2006 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32156 | | 9/29/2006 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32157 | | 9/29/2006 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32158 | | 9/29/2006 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32159 | | 9/29/2006 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32160 | | 9/29/2006 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32161 | | 9/29/2006 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32162 | | 9/29/2006 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32163 | | 9/29/2006 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32164 | | 9/29/2006 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32165 | | 9/29/2006 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32166 | | 9/29/2006 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32167 | | 9/29/2006 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32168 | | 9/29/2006 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32169 | | 9/29/2006 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32171 | | 9/29/2006 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32172 | | 9/29/2006 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32173 | | 9/29/2006 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32174 | | 9/29/2006 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32175 | | 9/29/2006 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32176 | | 9/29/2006 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32177 | | 9/29/2006 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32178 | | 9/29/2006 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32179 | | 9/29/2006 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32180 | | 9/30/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32181 | | 9/28/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32182 | | 9/28/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32183 | | 9/28/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32184 | | 9/28/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32185 | | 9/28/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32186 | | 9/28/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32187 | | 9/28/2005 | 22.0 | |

Table 26
Summary of Off-Site Waste Shipments
Yankee Nuclear Power Station
Rowe, MA

| Area Description | Disposal Destination | Waste Shipment ID | Energy Solutions Manifest Number | Date Shipped | Quantity (tons) | Subtotals |
|---|---|---|---|---|---|---|
| | TLR III - RDF, Rochester, NH | 32188 | | 9/28/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32189 | | 9/28/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32190 | | 9/28/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32191 | | 9/28/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32192 | | 9/28/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32193 | | 9/28/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31246 | | 9/26/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31247 | | 9/26/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31235 | | 9/26/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31236 | | 9/26/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31237 | | 9/26/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31238 | | 9/28/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31244 | | 9/26/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31245 | | 9/26/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31248 | | 9/26/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31249 | | 9/26/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31250 | | 9/26/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31251 | | 9/26/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31252 | | 9/26/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31253 | | 9/26/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31254 | | 9/26/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31255 | | 9/26/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31256 | | 9/26/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31257 | | 9/26/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31258 | | 9/26/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31259 | | 9/26/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31260 | | 9/26/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31261 | | 9/26/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31262 | | 9/26/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31263 | | 9/26/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31264 | | 9/26/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31265 | | 9/26/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31266 | | 9/26/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31267 | | 9/26/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31268 | | 9/26/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31269 | | 9/26/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31270 | | 9/26/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31271 | | 9/26/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31163 | | 9/16/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31164 | | 9/16/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31165 | | 9/16/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31171 | | 9/16/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31172 | | 9/16/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31173 | | 9/16/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31174 | | 9/16/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31175 | | 9/16/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31176 | | 9/16/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31177 | | 9/16/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31178 | | 9/16/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31179 | | 9/16/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31180 | | 9/16/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31181 | | 9/16/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31182 | | 9/16/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31183 | | 9/16/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31185 | | 9/14/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31186 | | 9/14/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31187 | | 9/14/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31188 | | 9/14/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31189 | | 9/14/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31190 | | 9/14/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31191 | | 9/14/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31192 | | 9/14/2005 | 22.0 | |

Table 26
Summary of Off-Site Waste Shipments
Yankee Nuclear Power Station
Rowe, MA

| Area Description | Disposal Destination | Waste Shipment ID | Energy Solutions Manifest Number | Date Shipped | Quantity (tons) | Subtotals |
|---|---|---|---|---|---|---|
| | TLR III - RDF, Rochester, NH | 31193 | | 9/15/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31194 | | 9/15/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31195 | | 9/15/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31196 | | 9/15/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31197 | | 9/15/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31198 | | 9/15/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31199 | | 9/15/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31200 | | 9/15/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31201 | | 9/15/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31202 | | 9/15/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31203 | | 9/15/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31204 | | 9/15/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31205 | | 9/15/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31206 | | 9/15/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31207 | | 9/14/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31208 | | 9/14/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31209 | | 9/14/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31210 | | 9/13/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31211 | | 9/13/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31212 | | 9/13/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31213 | | 9/13/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31214 | | 9/14/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31215 | | 9/14/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31216 | | 9/14/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31217 | | 9/13/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31218 | | 9/13/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31131 | | 9/19/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31132 | | 9/19/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31133 | | 9/19/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31134 | | 9/19/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31135 | | 9/19/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31136 | | 9/19/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31137 | | 9/19/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31138 | | 9/19/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31139 | | 9/19/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31140 | | 9/19/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31141 | | 9/19/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31142 | | 9/19/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31143 | | 9/19/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31144 | | 9/21/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31145 | | 9/21/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31146 | | 9/21/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31147 | | 9/20/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31148 | | 9/20/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31149 | | 9/20/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31150 | | 9/20/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31151 | | 9/20/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31152 | | 9/20/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31153 | | 9/20/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31154 | | 9/20/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31155 | | 9/20/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31156 | | 9/20/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31157 | | 9/20/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31158 | | 9/20/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31159 | | 9/20/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31160 | | 9/20/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31161 | | 9/21/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31162 | | 9/21/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31166 | | 9/19/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31167 | | 9/19/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31168 | | 9/19/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31169 | | 9/19/2005 | 22.0 | |

Table 26
Summary of Off-Site Waste Shipments
Yankee Nuclear Power Station
Rowe, MA

| Area Description | Disposal Destination | Waste Shipment ID | Energy Solutions Manifest Number | Date Shipped | Quantity (tons) | Subtotals |
|---|---|---|---|---|---|---|
| | TLR III - RDF, Rochester, NH | 31170 | | 9/19/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31221 | | 9/23/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31222 | | 9/23/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31223 | | 9/23/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31224 | | 9/23/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31225 | | 9/23/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31229 | | 9/23/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31230 | | 9/23/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31231 | | 9/23/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31232 | | 9/23/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31233 | | 9/23/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31239 | | 9/23/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31240 | | 9/23/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31241 | | 9/23/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31242 | | 9/23/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31243 | | 9/23/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 38218 | | 4/19/2006 | 20.0 | |
| | TLR III - RDF, Rochester, NH | 38219 | | 4/19/2006 | 20.0 | |
| | TLR III - RDF, Rochester, NH | 38221 | | 4/19/2006 | 20.0 | |
| | TLR III - RDF, Rochester, NH | 32825 | | 4/26/2006 | 20.0 | |
| | TLR III - RDF, Rochester, NH | 32826 | | 4/26/2006 | 20.0 | |
| | TLR III - RDF, Rochester, NH | 32827 | | 4/26/2006 | 20.0 | |
| | TLR III - RDF, Rochester, NH | 32828 | | 4/26/2006 | 20.0 | |
| | TLR III - RDF, Rochester, NH | 32829 | | 4/26/2006 | 20.0 | |
| | TLR III - RDF, Rochester, NH | 32795 | | 5/3/2006 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32796 | | 5/3/2006 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32797 | | 5/3/2006 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32798 | | 5/3/2006 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32799 | | 5/3/2006 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32800 | | 5/8/2006 | 17.0 | |
| | TLR III - RDF, Rochester, NH | 33274 | | 4/17/2006 | 20.0 | |
| | TLR III - RDF, Rochester, NH | 33275 | | 4/17/2006 | 20.0 | |
| | TLR III - RDF, Rochester, NH | 33276 | | 4/17/2006 | 20.0 | |
| | TLR III - RDF, Rochester, NH | 33277 | | 4/17/2006 | 20.0 | |
| | TLR III - RDF, Rochester, NH | 33278 | | 4/17/2006 | 20.0 | |
| | TLR III - RDF, Rochester, NH | 33279 | | 4/17/2006 | 20.0 | |
| | TLR III - RDF, Rochester, NH | 33280 | | 4/17/2006 | 20.0 | |
| | TLR III - RDF, Rochester, NH | 33281 | | 4/17/2006 | 20.0 | |
| | TLR III - RDF, Rochester, NH | 33282 | | 4/17/2006 | 20.0 | |
| | TLR III - RDF, Rochester, NH | 33283 | | 4/17/2006 | 20.0 | |
| | TLR III - RDF, Rochester, NH | 33284 | | 4/18/2006 | 20.0 | |
| | TLR III - RDF, Rochester, NH | 33285 | | 4/18/2006 | 20.0 | |
| | TLR III - RDF, Rochester, NH | 33286 | | 4/18/2006 | 20.0 | |
| | TLR III - RDF, Rochester, NH | 33287 | | 4/18/2006 | 20.0 | |
| | TLR III - RDF, Rochester, NH | 33288 | | 4/18/2006 | 20.0 | |
| | TLR III - RDF, Rochester, NH | 33289 | | 4/18/2006 | 20.0 | |
| | TLR III - RDF, Rochester, NH | 33290 | | 4/18/2006 | 20.0 | |
| | TLR III - RDF, Rochester, NH | 33291 | | 4/18/2006 | 20.0 | |
| | TLR III - RDF, Rochester, NH | 33292 | | 4/18/2006 | 20.0 | |
| | TLR III - RDF, Rochester, NH | 33293 | | 4/18/2006 | 20.0 | |
| | TLR III - RDF, Rochester, NH | 33294 | | 4/18/2006 | 20.0 | |
| | TLR III - RDF, Rochester, NH | 33295 | | 4/18/2006 | 20.0 | |
| | TLR III - RDF, Rochester, NH | 33296 | | 4/18/2006 | 20.0 | |
| | TLR III - RDF, Rochester, NH | 33297 | | 4/18/2006 | 20.0 | |
| | TLR III - RDF, Rochester, NH | 33298 | | 4/18/2006 | 20.0 | 9,665 |
| | WMNH-TREE, Rochester, NH | 9/12 #1 | | 9/12/2005 | 22.0 | |
| | WMNH-TREE, Rochester, NH | 9/12 #2 | | 9/12/2005 | 22.0 | |
| | WMNH-TREE, Rochester, NH | 9/12 #3 | | 9/12/2005 | 22.0 | |
| | WMNH-TREE, Rochester, NH | 9/12 #4 | | 9/12/2005 | 22.0 | |
| | WMNH-TREE, Rochester, NH | 9/12 #5 | | 9/12/2005 | 22.0 | |
| | WMNH-TREE, Rochester, NH | 9/12 #6 | | 9/12/2005 | 22.0 | |
| | WMNH-TREE, Rochester, NH | 9/12 #7 | | 9/12/2005 | 22.0 | |

Table 26
Summary of Off-Site Waste Shipments
Yankee Nuclear Power Station
Rowe, MA

| Area Description | Disposal Destination | Waste Shipment ID | Energy Solutions Manifest Number | Date Shipped | Quantity (tons) | Subtotals |
|---|---|---|---|---|---|---|
| | WMNH-TREE, Rochester, NH | 9/12 #8 | | 9/12/2005 | 22.0 | |
| | WMNH-TREE, Rochester, NH | 9/13 #1 | | 9/13/2005 | 22.0 | |
| | WMNH-TREE, Rochester, NH | 9/13 #2 | | 9/13/2005 | 22.0 | |
| | WMNH-TREE, Rochester, NH | 9/13 #3 | | 9/13/2005 | 22.0 | |
| | WMNH-TREE, Rochester, NH | 9/13 #4 | | 9/13/2005 | 22.0 | |
| | WMNH-TREE, Rochester, NH | 9/13 #5 | | 9/13/2005 | 22.0 | 286 |
| | CWM, Model City, NY | NYG 5377401 | | 4/13/2006 | 13.1 | |
| | CWM, Model City, NY | NYG 5377419 | | 4/13/2006 | 16.3 | |
| | CWM, Model City, NY | NYG 5377464 | | 4/13/2006 | 15.1 | |
| | CWM, Model City, NY | NYG 5377473 | | 4/13/2006 | 18.2 | |
| | CWM, Model City, NY | NYG 5375016 | | 4/13/2006 | 17.3 | |
| | CWM, Model City, NY | NYG 5377482 | | 4/13/2006 | 16.8 | |
| | CWM, Model City, NY | NYG 5377509 | | 4/27/2006 | 14.9 | |
| | CWM, Model City, NY | NYG 5377149 | | 12/8/2005 | 10.1 | |
| | CWM, Model City, NY | NYG 5377131 | | 11/21/2005 | 12.1 | |
| | CWM, Model City, NY | NYG 5377167 | | 11/21/2005 | 14.3 | |
| | CWM, Model City, NY | NYG 5377455 | | 4/19/2006 | 17.0 | |
| | CWM, Model City, NY | NYG 5377446 | | 4/19/2006 | 16.7 | |
| | CWM, Model City, NY | NYG 5377437 | | 4/19/2006 | 13.1 | |
| | CWM, Model City, NY | NYG 5377428 | | 4/19/2006 | 13.4 | |
| | CWM, Model City, NY | NYG 5377509 | | 4/27/2006 | 14.9 | |
| | CWM, Model City, NY | NYG 5374944 | | 8/31/2006 | 8.1 | |
| | CWM, Model City, NY | 000908027 JJK | | 9/11/2006 | 8.1 | 240 |
| | WMNH-TREE, Rochester, NH | 102405-1 | | 10/24/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 102405-2 | | 10/24/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 102405-3 | | 10/24/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 102405-4 | | 10/24/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 102405-5 | | 10/24/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 102405-6 | | 10/24/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 102405-7 | | 10/24/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 102405-8 | | 10/24/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 102605-1 | | 10/26/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 102605-2 | | 10/26/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 102605-3 | | 10/26/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 102605-4 | | 10/26/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 102605-5 | | 10/26/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 102605-6 | | 10/26/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 102605-7 | | 10/26/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 102605-8 | | 10/26/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 102605-9 | | 10/26/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 102605-10 | | 10/26/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 102605-11 | | 10/26/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 102605-12 | | 10/26/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 102705-1 | | 10/27/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 102705-2 | | 10/27/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 102705-3 | | 10/27/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 102705-4 | | 10/27/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 102705-5 | | 10/27/2005 | 15.6 | |
| | WMNH-TREE, Rochester, NH | 102705-6 | | 10/27/2005 | 15.6 | 406 |
| | TLR III - RDF, Rochester, NH | 31234 | | 9/28/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31802 | | 9/21/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31803 | | 9/21/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31804 | | 9/21/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31805 | | 9/21/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31806 | | 9/21/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31807 | | 9/21/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31808 | | 9/21/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31809 | | 9/21/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31810 | | 9/21/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31811 | | 9/21/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31812 | | 9/21/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31813 | | 9/21/2005 | 22.0 | |

Table 26
Summary of Off-Site Waste Shipments
Yankee Nuclear Power Station
Rowe, MA

| Area Description | Disposal Destination | Waste Shipment ID | Energy Solutions Manifest Number | Date Shipped | Quantity (tons) | Subtotals |
|---|---|---|---|---|---|---|
| | TLR III - RDF, Rochester, NH | 31814 | | 9/21/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31815 | | 9/21/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31816 | | 9/21/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 31817 | | 9/21/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32054 | | 9/27/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32076 | | 9/27/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32077 | | 9/26/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32524 | | 10/25/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32525 | | 10/25/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32526 | | 10/25/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32527 | | 10/25/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32528 | | 10/25/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32550 | | 10/26/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32552 | | 10/26/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32553 | | 10/26/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32554 | | 10/26/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32555 | | 10/25/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32556 | | 10/25/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32557 | | 10/25/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32558 | | 10/25/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32559 | | 10/25/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32842 | | 10/27/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32845 | | 10/27/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32846 | | 10/27/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32847 | | 10/27/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32848 | | 10/27/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32849 | | 10/27/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32850 | | 10/27/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32851 | | 10/27/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32855 | | 10/25/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32856 | | 10/25/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32857 | | 10/25/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 32858 | | 10/25/2005 | 22.0 | |
| | TLR III - RDF, Rochester, NH | 38223 | | 7/11/2006 | 18.0 | |
| | TLR III - RDF, Rochester, NH | 38224 | | 7/11/2006 | 18.0 | |
| | TLR III - RDF, Rochester, NH | 38225 | | 7/11/2006 | 18.0 | |
| | TLR III - RDF, Rochester, NH | 38284 | | 7/18/2006 | 16.0 | |
| | TLR III - RDF, Rochester, NH | 38285 | | 7/17/2006 | 18.0 | |
| | TLR III - RDF, Rochester, NH | 38289 | | 7/6/2006 | 16.0 | |
| | TLR III - RDF, Rochester, NH | 38292 | | 7/5/2006 | 16.0 | |
| | TLR III - RDF, Rochester, NH | 38293 | | 7/5/2006 | 16.0 | |
| | TLR III - RDF, Rochester, NH | 38291 | | 7/6/2006 | 16.0 | 1,164 |
| | **Area Subtotal** | | | | | **11,760** |
| | | | | | | |
| Industrial Area | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0241 | 5/23/2006 | 95.0 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0242 | 5/31/2006 | 95.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0243 | 6/1/2006 | 95.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0244 | 6/5/2006 | 105.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0245 | 6/5/2006 | 105.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0246 | 6/6/2006 | 105.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0247 | 6/6/2006 | 105.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0248 | 6/8/2006 | 105.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0249 | 6/8/2006 | 100.5 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0250 | 6/8/2006 | 105.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0251 | 6/8/2006 | 105.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0252 | 6/13/2006 | 105.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0253 | 6/13/2006 | 105.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0254 | 6/14/2006 | 105.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0255 | 6/14/2006 | 105.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0256 | 6/14/2006 | 10.6 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0257 | 6/15/2006 | 95.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0258 | 6/15/2006 | 95.1 | |

Table 26
Summary of Off-Site Waste Shipments
Yankee Nuclear Power Station
Rowe, MA

| Area Description | Disposal Destination | Waste Shipment ID | Energy Solutions Manifest Number | Date Shipped | Quantity (tons) | Subtotals |
|---|---|---|---|---|---|---|
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0259 | 6/15/2006 | 95.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0260 | 6/15/2006 | 95.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0261 | 6/15/2006 | 95.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0262 | 6/19/2006 | 95.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0263 | 6/20/2006 | 95.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0264 | 6/21/2006 | 105.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0265 | 6/22/2006 | 105.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0266 | 6/27/2006 | 97.2 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0267 | 6/28/2006 | 105.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0268 | 6/29/2006 | 105.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0269 | 7/17/2006 | 105.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0270 | 7/19/2006 | 107.0 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0271 | 7/18/2006 | 105.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0272 | 7/18/2006 | 105.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0273 | 7/19/2006 | 105.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0274 | 7/20/2006 | 100.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0275 | 7/20/2006 | 100.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0276 | 7/20/2006 | 100.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0277 | 7/21/2006 | 100.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0278 | 7/24/2006 | 100.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0279 | 7/24/2006 | 100.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0280 | 7/24/2006 | 100.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0281 | 7/25/2006 | 105.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0282 | 7/25/2006 | 105.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0283 | 7/25/2006 | 105.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0284 | 7/26/2006 | 100.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0285 | 7/26/2006 | 100.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0286 | 7/26/2006 | 100.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0287 | 7/27/2006 | 100.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0288 | 7/27/2006 | 100.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0289 | 7/27/2006 | 100.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0290 | 7/28/2006 | 95.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0291 | 7/28/2006 | 95.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0292 | 7/31/2006 | 95.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0293 | 7/31/2006 | 95.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0294 | 7/31/2006 | 95.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0295 | 8/1/2006 | 95.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0296 | 8/1/2006 | 95.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0297 | 8/1/2006 | 95.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0298 | 8/3/2006 | 95.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0299 | 8/7/2006 | 95.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0300 | 8/8/2006 | 95.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0301 | 8/9/2006 | 95.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0302 | 8/10/2006 | 95.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0303 | 8/14/2006 | 95.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0304 | 8/14/2006 | 95.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0305 | 8/15/2006 | 95.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0306 | 8/16/2006 | 95.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0307 | 8/16/2006 | 95.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0308 | 8/16/2006 | 95.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0309 | 8/16/2006 | 95.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0310 | 8/17/2006 | 95.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0311 | 8/17/2006 | 95.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0312 | 8/17/2006 | 95.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0313 | 8/17/2006 | 95.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0314 | 8/18/2006 | 95.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0315 | 8/18/2006 | 95.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0319 | 8/22/2006 | 95.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0320 | 8/22/2006 | 95.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0321 | 8/22/2006 | 95.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0329 | 9/27/2006 | 67.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-03-0079 | 10/5/2006 | 0.16 | |

Table 26
Summary of Off-Site Waste Shipments
Yankee Nuclear Power Station
Rowe, MA

| Area Description | Disposal Destination | Waste Shipment ID | Energy Solutions Manifest Number | Date Shipped | Quantity (tons) | Subtotals |
|---|---|---|---|---|---|---|
| | Energy Solutions/Envirocare, Clive, UT | 000893504 JJK | | 10/5/2006 | 0.02 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0330 | 10/5/2006 | 51.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0316 | 8/21/2006 | 95.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0317 | 8/21/2006 | 95.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0318 | 8/21/2006 | 95.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0319 | 8/22/2006 | 95.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0320 | 8/22/2006 | 95.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0321 | 8/22/2006 | 95.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0322 | 8/23/2006 | 95.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0323 | 8/23/2006 | 95.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0324 | 8/23/2006 | 95.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0325 | 8/24/2006 | 95.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0326 | 8/24/2006 | 95.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0327 | 8/28/2006 | 95.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0328 | 8/29/2006 | 95.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0329 | 9/29/2006 | 67.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0330 | 10/5/2006 | 51.1 | |
| | **Area Subtotal** | | | | | **9,108** |
| | | | | | | |
| Bulldozer Spill Area | Energy Solutions, Clive, UT | | 0336-01-0268 | 6/29/2006 | 105.1 | |
| | **Area Subtotal** | | | | | **105** |
| | | | | | | |
| Firewater Pumphouse Drywell | Energy Solutions, Clive, UT | | 0336-01-0182 | 10/5/2005 | 19.2 | |
| | Energy Solutions, Clive, UT | | 0336-01-0243 | 6/1/2006 | 95.1 | |
| | **Area Subtotal** | | | | | **114** |
| | | | | | | |
| Firewater Tank (TK-55) | Energy Solutions, Clive, UT | | 0336-01-0202 | 11/10/2005 | 96.3 | |
| | Energy Solutions, Clive, UT | | 0336-01-0204 | 11/15/2005 | 96.0 | |
| | Energy Solutions, Clive, UT | | 0336-01-0203 | 11/14/2005 | 99.0 | |
| | Energy Solutions, Clive, UT | | 0336-01-0208 | 11/18/2005 | 104.6 | |
| | **Area Subtotal** | | | | | **396** |
| | | | | | | |
| Fuel Oil Tank | Energy Solutions, Clive, UT | | 0336-01-0186 | 10/11/2005 | 101.2 | |
| | Energy Solutions, Clive, UT | | 0336-01-0197 | 11/7/2005 | 99.7 | |
| | **Area Subtotal** | | | | | **201** |
| | | | | | | |
| North Road Oil Spill | Energy Solutions, Clive, UT | | 0336-01-0146 | 7/14/2005 | 94.8 | |
| | **Area Subtotal** | | | | | **95** |
| | | | | | | |
| Ties & VOC Soils | Energy Solutions/Envirocare, Clive, UT | | 0336-11-0098 | 9/30/2005 | 95.5 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0185 | 10/7/2005 | 102.7 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0187 | 10/12/2005 | 94.9 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0193 | 10/27/2005 | 106.2 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0198 | 11/8/2005 | 102.6 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0199 | 11/8/2005 | 100.0 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0201 | 11/10/2005 | 96.8 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0205 | 11/15/2005 | 95.4 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0211 | 11/22/2005 | 97.9 | |
| | **Area Subtotal** | | | | | **892** |
| | | | | | | |
| Dioxin Waste | Energy Solutions/Envirocare, Clive, UT | | 0336-11-0095 | 9/16/2005 | 94.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0174 | 9/19/2005 | 94.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0172 | 9/14/2005 | 101.6 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0175 | 9/20/2005 | 95.8 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0176 | 9/21/2005 | 96.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0177 | 9/21/2005 | 95.9 | |

Table 26
Summary of Off-Site Waste Shipments
Yankee Nuclear Power Station
Rowe, MA

| Area Description | Disposal Destination | Waste Shipment ID | Energy Solutions Manifest Number | Date Shipped | Quantity (tons) | Subtotals |
|---|---|---|---|---|---|---|
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0178 | 9/22/2005 | 95.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0179 | 9/27/2005 | 98.3 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0180 | 9/28/2005 | 97.5 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0181 | 10/3/2005 | 101.0 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0183 | 10/6/2005 | 99.6 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0184 | 10/6/2005 | 103.4 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-11-0096 | 9/23/2005 | 100.8 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-11-0097 | 9/26/2005 | 99.0 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-11-0099 | 10/4/2005 | 94.6 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0188 | 10/13/2005 | 100.1 | |
| | **Area Subtotal** | | | | | **1,567** |
| | | | | | | |
| Furlon House Basement | TLR III - RDF, Rochester, NH | 38286 | | 7/17/2006 | 18.0 | |
| | TLR III - RDF, Rochester, NH | 38287 | | 7/17/2006 | 18.0 | |
| | TLR III - RDF, Rochester, NH | 38288 | | 7/17/2006 | 16.0 | |
| | **Area Subtotal** | | | | | **52** |
| | | | | | | |
| Peninsula Sand Blast Grit | TLR III - RDF, Rochester, NH | 38228 | | 7/14/2006 | 17.8 | |
| | TLR III - RDF, Rochester, NH | 38229 | | 7/14/2006 | 16.4 | |
| | TLR III - RDF, Rochester, NH | 38230 | | 7/14/2006 | 18.3 | |
| | TLR III - RDF, Rochester, NH | 38231 | | 7/14/2006 | 17.8 | |
| | TLR III - RDF, Rochester, NH | 38232 | | 7/14/2006 | 18.3 | |
| | TLR III - RDF, Rochester, NH | 38233 | | 7/14/2006 | 16.7 | |
| | TLR III - RDF, Rochester, NH | 38234 | | 7/14/2006 | 17.1 | |
| | TLR III - RDF, Rochester, NH | 38281 | | 7/20/2006 | 14.6 | |
| | TLR III - RDF, Rochester, NH | 38282 | | 7/20/2006 | 18.2 | |
| | TLR III - RDF, Rochester, NH | 38283 | | 7/20/2006 | 16.6 | |
| | TLR III - RDF, Rochester, NH | 38275 | | 7/24/2006 | 15.2 | |
| | TLR III - RDF, Rochester, NH | 38276 | | 7/25/2006 | 15.4 | |
| | TLR III - RDF, Rochester, NH | 38277 | | 7/24/2006 | 17.4 | |
| | TLR III - RDF, Rochester, NH | 38278 | | 7/24/2006 | 16.6 | |
| | TLR III - RDF, Rochester, NH | 38279 | | 7/25/2006 | 16.3 | |
| | TLR III - RDF, Rochester, NH | 38280 | | 7/25/2006 | 15.5 | |
| | TLR III - RDF, Rochester, NH | 38226 | | 8/22/2006 | 20.0 | |
| | TLR III - RDF, Rochester, NH | 38227 | | 8/24/2006 | 20.0 | |
| | TLR III - RDF, Rochester, NH | 38262 | | 8/23/2006 | 20.0 | |
| | TLR III - RDF, Rochester, NH | 38263 | | 8/23/2006 | 20.0 | |
| | TLR III - RDF, Rochester, NH | 38265 | | 8/22/2006 | 20.0 | |
| | TLR III - RDF, Rochester, NH | 38266 | | 8/22/2006 | 20.0 | |
| | TLR III - RDF, Rochester, NH | 38267 | | 8/22/2006 | 20.0 | |
| | TLR III - RDF, Rochester, NH | 38268 | | 8/21/2006 | 20.0 | |
| | TLR III - RDF, Rochester, NH | 38270 | | 8/21/2006 | 20.0 | |
| | TLR III - RDF, Rochester, NH | 38271 | | 8/18/2006 | 20.0 | |
| | TLR III - RDF, Rochester, NH | 38272 | | 8/17/2006 | 20.0 | |
| | TLR III - RDF, Rochester, NH | 38274 | | 7/26/2006 | 17.4 | |
| | **Area Subtotal** | | | | | **505** |
| | | | | | | |

**Table 26**
**Summary of Off-Site Waste Shipments**
**Yankee Nuclear Power Station**
**Rowe, MA**

| Area Description | Disposal Destination | Waste Shipment ID | Energy Solutions Manifest Number | Date Shipped | Quantity (tons) | Subtotals |
|---|---|---|---|---|---|---|
| South Yard Sand Blast Grit | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0270 | 7/19/2006 | 107.0 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0272 | 7/18/2006 | 105.1 | |
| | Energy Solutions/Envirocare, Clive, UT | | 0336-01-0277 | 7/21/2006 | 100.1 | |
| | **Area Subtotal** | | | | | **312** |
| | | | **Total (tons)** | | | **34,755** |
| | | | **Total (cubic yards)** | | | **26,700** |

Note:
Volume estimated assuming 1.3 tons/cubic yard

| Facility | Quantity (tons) |
|---|---|
| Energy Solutions/Envirocare, Clive, UT | 19,211 |
| TLR III - RDF, Rochester, NH | 11,386 |
| WMNH-TREE, Rochester, NH | 3,319 |
| CWM, Model City, NY | 638 |
| R.A.C.E. LLC, Memphis, TN | 202 |

# *Figures*

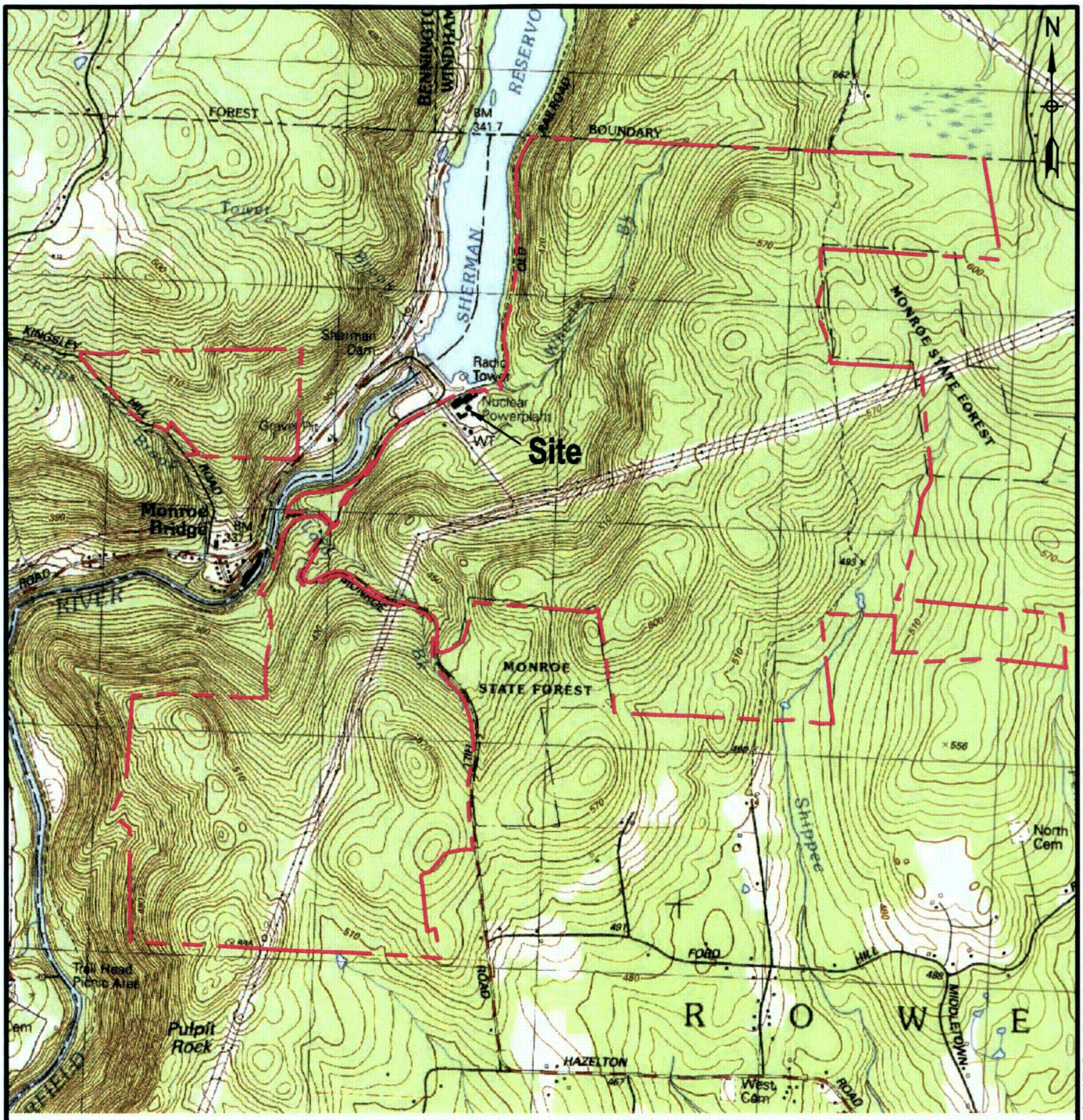



**Figure 1 -** Locus Map
Yankee Nuclear Power Station - Rowe, MA

ERM

R:\Yankee Atomic\Report - TSCA Soil\Yankee TSCA Soil.dwg (07/20/04 Boston)

N

Deerfield River

TransCanada
YAEC Property

Study Area 4

Study Area 1

Study Area 5

Study Area 3

Study Area 2

Wheeler Brook

Tributary to Wheeler Brook

SCFA A

SCFA B

SCFA C

SCFA D

Wheeler Brook Divertment

TransCanada
YAEC Property

Legend

- YAEC Property Boundary
- Edge of Water/Stream
- Fence
- Former Structures
- Existing Structures
- Study Area Boundary
- TSCA Sediment Areas

Scale(1"=300')

150' 0 150' 300' 600'

**Figure 2 -** Plant Layout
Yankee Nuclear Power Station - Rowe, MA

ERM

R:\Yankee Atomic\Report - Phase 4 Feb 2007\Soil non industrial.dwg (02/26/2007 - 6:37pm Boston)

N

Silt Curtain

East Storm
Drain Outfall

Sediment Depth
of Removal (feet)

2.5
2.0
1.5
1.0
0.5
0.0

Scale
15' 0 15' 30'

**Dredge Depths**

N

Silt Curtain

East Storm
Drain Outfall

Area Remediated
Individual Bucket Footprint

**Dredge Bucket Footprints**

**Figure 3** - East Storm Drain Dredging
Yankee Nuclear Power Station - Rowe, MA

ERM

R:\Yankee Atomic\Report - Phase 4 Feb 2007\Fig 3.dwg (03/01/2007 - 4:40pm Boston)

N

ND
SD-544R

0.65 SD-642
SD-643 ND
SD-641
0.64/0.78
0.14
SD-639
ND SD-640
SD-637
ND
SD-638
0.086
0.14
SD-634
0.86 SD-635
ND SD-636
SD-630
0.16
1.6
SD-631
SD-632
ND
SD-633
ND
3.4 SD-626
0.48 SD-627
ND SD-628
ND SD-629
SD-625 0.76
SD-750
0.94/1.0
SD-619
0.36
SD-620
0.60
SD-621
0.43/0.068
0.064
SD-622
SD-623
0.052
SD-624
ND
0.31 SD-614
0.31 SD-616
0.22 SD-617
0.38 SD-618
0.36 SD-615
SD-609
0.59
SD-610
0.70
SD-611
0.064
0.098
SD-612
SD-613
0.095
0.17
SD-606
0.039
SD-607
SD-605 0.61
SD-608 ND
0.15/1.2
SD-601
ND
SD-602
0.035
SD-603
ND
SD-604

Silt Curtain

East Storm
Drain Outfall

## Legend

**SD-620** □ Confirmatory Samples
**ND** 0-3"

Areas Targeted for Remediation

Notes:
Total PCB Concentrations in milligrams per kilogram
ND = Not Detected
Original Sample/Duplicate Sample
Red values exceed remediation goals

Scale (1"=20')
10' 0 10' 20' 40'

**Figure 4** - Sediment PCB Closure Data for
East Storm Drain
Yankee Nuclear Power Station - Rowe, MA

ERM

R:\Yankee Atomic\Report - Phase 4 Feb 2007\Yankee TSCA permit (11-02-04).dwg (03/20/2007 - 3:15am Boston)

N

Outfall

0.2715 SD-727
SD-701
0.065/0.082
0.2004 SD-728
SD-702
0.19
0.1041 SD-729
1.080 SD-703
0.081 SD-703R
SD-730 1.384
SD-730R ND
SD-704 1.210
SD-704R 0.039
0.3749 SD-731
0.5 SD-705
0.153 SD-732
SD-706
0.064
0.0663 SD-733
SE-WSD006
1.398
0.062 SD-707
ND SD-708
SD-734
0.099
ND SD-709
SD-735
0.0424
1.179
SE-WSD005
ND SD-710
SD-736
0.2515
SD-737
0.0957/0.0749
0.0455 SD-738
SD-711
0.019
0.084 SD-712
SD-739
0.0868
0.044
SE-WSD004
SD-713 ND
SD-714 ND
0.29
SD-715
0.026
SE-WSD003
0.31 SD-716
SD-717 ND
SD-718
0.046
0.019
SE-WSD002
SD-719 ND
SD-720 ND
SD-721 ND/ND
SD-722 ND
0.032/0.061
SE-WSD001
SD-726 ND
SD-724
0.109
SD-723
0.047
SD-725 ND

Parking

West Storm Drain Ditch

Paved Road

Paved Area

Culvert

Scale (1"=50')

25' 0 25' 50' 100'

Legend

SD-726 ND — Confirmatory Samples 0-3"

Areas Targeted for Remediation

Notes:
Total PCB Concentrations in milligrams per kilogram
ND = Not Detected
Original Sample/Duplicate Sample
Red values exceed remediation goals

**Figure 5** - Sediment PCB Closure Data for West Storm Drain
Yankee Nuclear Power Station - Rowe, MA

ERM

R:\Yankee Atomic\Report - Phase 4 Feb 2007\Fig 05.dwg (03/19/2007 - 11:23am Boston)

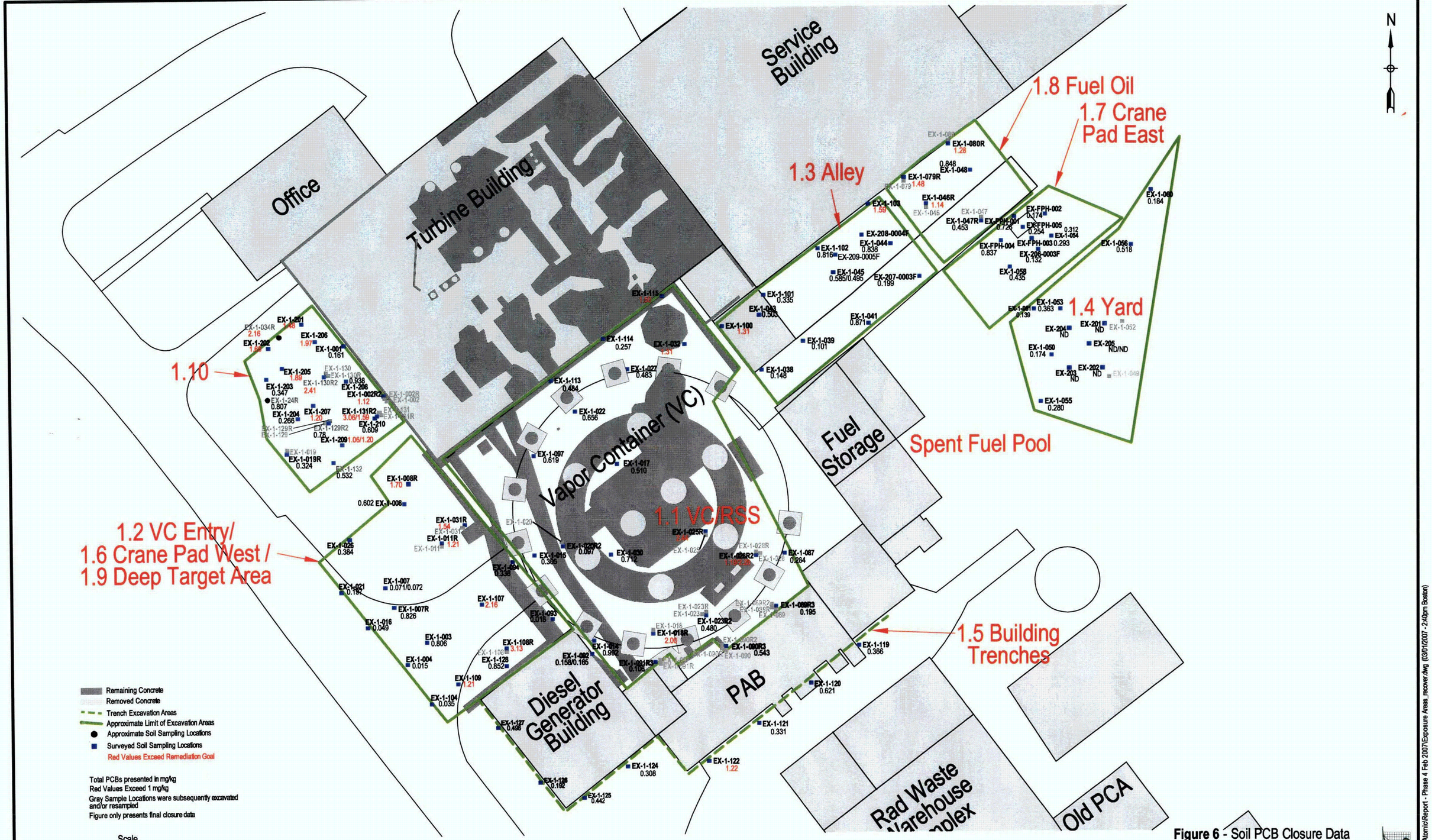



**Figure 6** - Soil PCB Closure Data
Study Area 1
Yankee Nuclear Power Station - Rowe, MA

ERM

R:\Yankee Atomic\Report - Phase 4 Feb 2007\Exposure Areas_recover.dwg (03/01/2007 - 2:40pm Boston)

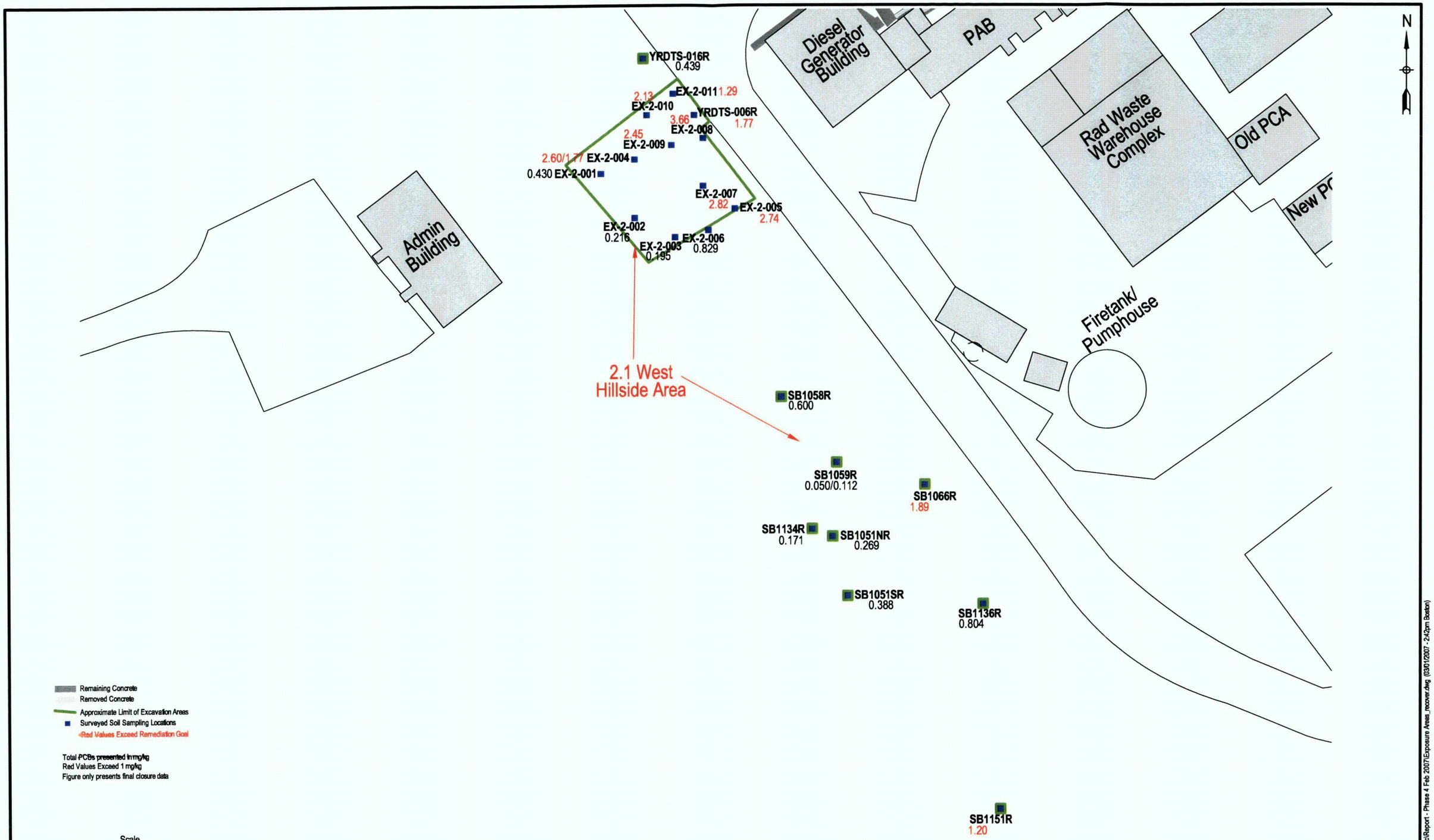



**Figure 7** - Soil PCB Closure Data
Study Area 2
Yankee Nuclear Power Station - Rowe, MA

ERM

R:\Yankee Atomic\Report - Phase 4 Feb 2007\Exposure Areas_recover.dwg (03/01/2007 - 2:42pm Boston)

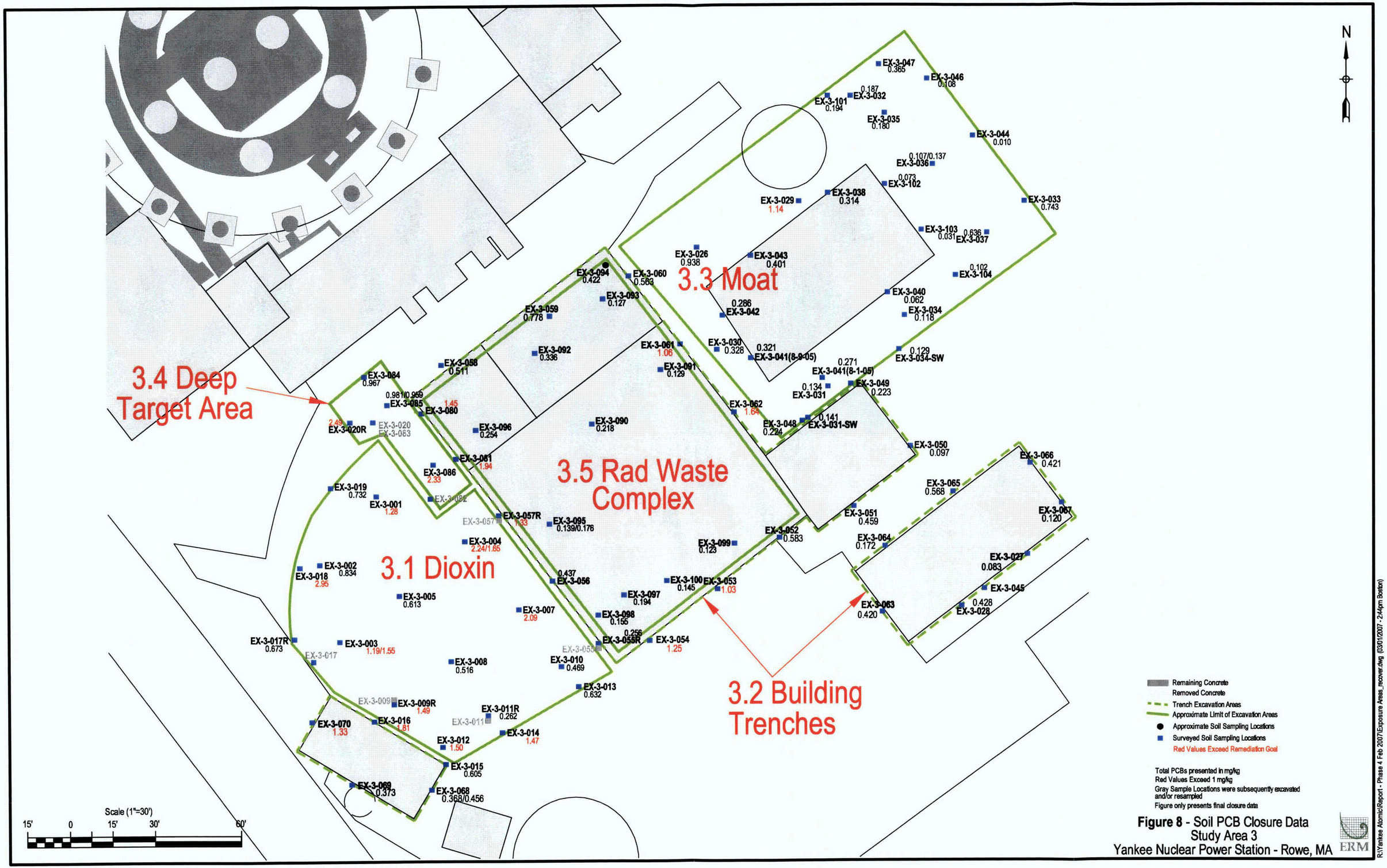



**Figure 8** - Soil PCB Closure Data
Study Area 3
Yankee Nuclear Power Station - Rowe, MA

4.1 Trenches

4.2 Turbine Pad

Office

Turbine Building

Service Building

Fuel Storage

Vapor Containment (VC)

EX-4-001 EX-4-001R ND
EX-4-002 0.277
EX-4-003 0.175
EX-4-004 0.450
EX-4-005 0.104
EX-4-006 0.065
EX-4-007 0.113
EX-4-008 0.228
EX-4-009 0.356
EX-4-010 0.083
EX-4-011 3.46
EX-4-012 0.072
EX-4-013 0.123
EX-4-014 0.393
EX-4-015 0.233
EX-4-016 0.082
EX-4-017 0.278
EX-4-018 0.230
EX-4-019 0.241
EX-4-020 0.140
EX-4-021 0.130
EX-4-022 0.052/0.174
EX-4-023 0.461
EX-4-024 EX-4-024R 2.27/1.41
EX-4-025 EX-4-025R 0.650
EX-4-026 2.14
EX-4-027 1.59
EX-4-028 0.021
EX-4-029 0.327
EX-4-030 0.341
EX-4-031 0.337
EX-4-032 EX-4-032R 1.82
EX-4-033
EX-4-034 EX-4-034R 1.77
EX-4-035 EX-4-035R 1.79
EX-4-036 0.465
EX-4-037 0.128/1.32
EX-4-038 EX-4-038R 1.78
EX-4-039 1.52
EX-4-040 0.691
EX-4-041 0.823
EX-4-042 3.53
EX-4-043
EX-4-044
EX-4-045 .42
EX-4-047 0.887
EX-4-048 0.167
EX-4-050 0.943/1.27
EX-4-051 1.07
EX-4-052 1.05
EX-4-053
EX-4-054 0.459
EX-4-055 0.204
EX-4-056
EX-4-060 0.157/0.288
EX-4-061 1.15
EX-4-062 0.092/0.090
EX-4-063 .0536
EX-4-064 0.147

Scale (1"=30')
30' 0 30' 60' 120'

Scale (1"=50')
N
SD600R5 0.402
Sherman Reservoir
Office
Turbine Building
Service Building
Warehouse

Remaining Concrete
Removed Concrete
Trench Excavation Areas
Approximate Limit of Excavation Areas
Surveyed Soil Sampling Locations
Red Values Exceed Remediation Goal

Total PCBs presented in mg/kg
Red Values Exceed 1 mg/kg
Gray Sample Locations were subsequently excavated and/or resampled
Figure only presents final closure data

**Figure 9** - Soil PCB Closure Data
Study Area 4
Yankee Nuclear Power Station - Rowe, MA

ERM

R:\Yankee Atomic\Report - Phase 4 Feb 2007\Exposure Areas_recover.dwg (03/01/2007 - 2:45pm Boston)

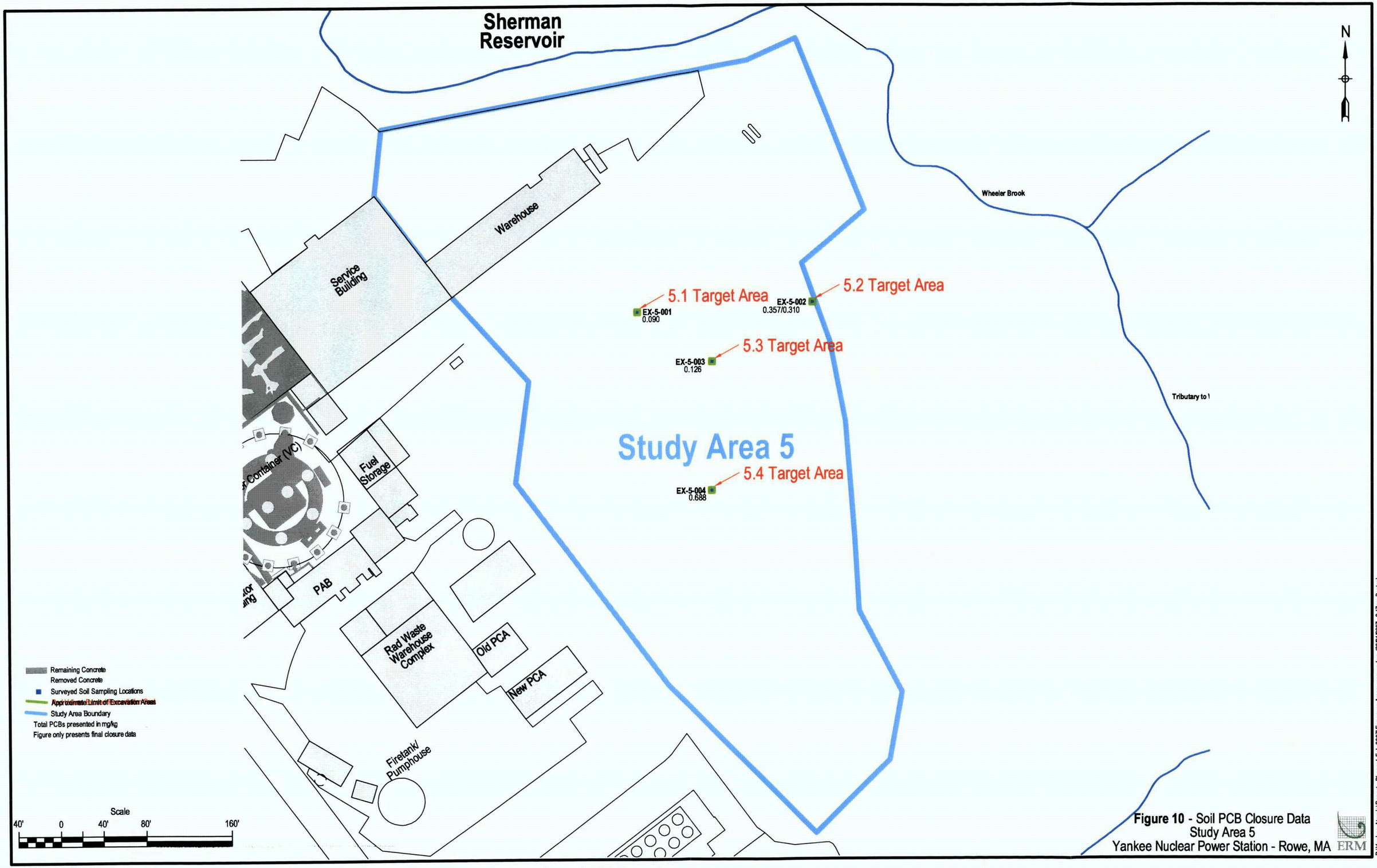
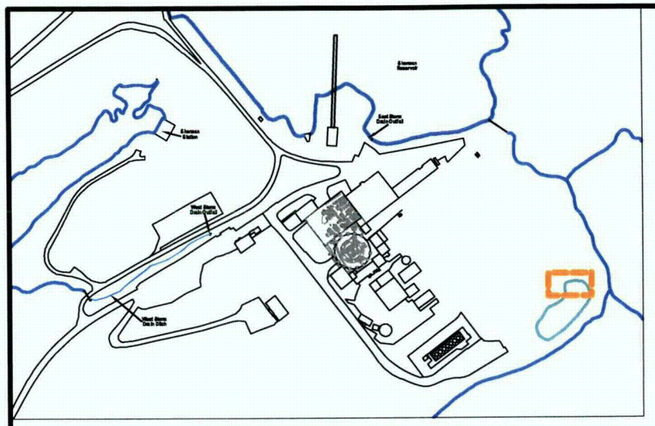



**Figure 10** - Soil PCB Closure Data
Study Area 5
Yankee Nuclear Power Station - Rowe, MA

R:\Yankee Atomic\Report - Phase 4 Feb 2007\Exposure Areas_recover.dwg (03/01/2007 - 2:47pm Boston)



N

SCFA Area A

SCFA Area B

SCFA-A-EW-01R
0.438

SCFA-A-FL-05
0.031

SCFA-A-NW-02
0.050

SCFA-A-EW-01

SCFA-A-FL-04
0.046

SCFA-A-FL-06
0.270

0.480
SCFA-A-EW-02R

SCFA-A-NW-01
0.222

SCFA-A-EW-02

SCFA-A-FL-03
0.200

SCFA-A-FL-02
0.152/ND

SCFA-A-SW-01
0.343

0.078
SCFA-A-WW-02

SCFA-A-FL-01

SCFA-A-FL-01R
ND

SCFA-A-SW-02
0.810

SCFA-A-NW-03
ND

SCFA-A-WW-01

SCFA-A-FL-07
0.212

0.144
SCFA-A-WW-01R

SCFA-A-SW-03
0.114

0.256
SCFA-B-FL-10

SCFA-B-NW-1
0.148

SCFA-B-FL-1
0.188/0.210

SCFA-B-EW-1

SCFA-B-FL-6
0.252

0.183
SCFA-B-FL-7

0.810
SCFA-B-EW-2

SCFA-B-FL-2
0.208

SCFA-B-NW-2
0.037

SCFA-B-FL-5
0.268

0.130
SCFA-B-FL-8

SCFA-B-FL-3
0.206

SCFA-B-FL-4
0.464

SCFA-B-WW-1
0.334

0.112
SCFA-B-FL-9

SCFA Boundary (approximate)

Approximate Limit of Excavation Areas

Surveyed Soil Sampling Locations

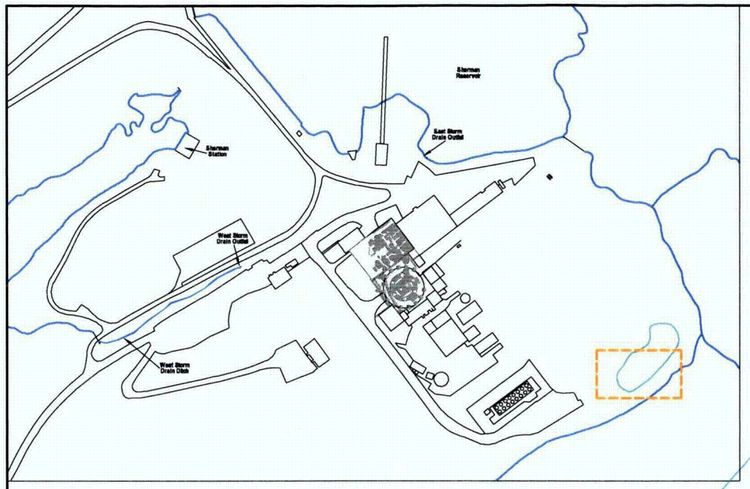
Total PCBs presented in mg/kg
Red Values Exceed 1 mg/kg
Gray Sample Locations were subsequently excavated and/or resampled
Figure only presents final closure data

Scale (1"=10')
5' 0 5' 10' 20'

**Figure 11** - Soil PCB Closure Data
SCFA Areas A and B
Yankee Nuclear Power Station - Rowe, MA

ERM

R:\Yankee Atomic\Report - Phase 4 Feb 2007\Exposure Areas_recover.dwg (03/01/2007 - 2:48pm Boston)




N

SCFA Area C

TSCA High Occupancy

TSCA Low Occupancy

SCFA Area D

TSCA High Occupancy

TSCA Low Occupancy

Wheeler Brook Divertment

SCFA Boundary (approximate)
TSCA High/Low Occupancy Boundary (approximate)
Approximate Limit of Excavation Areas
Approximate Soil Sampling Locations
Surveyed Soil Sampling Locations
Red Values Exceed Remediation Goal

Total PCBs presented in mg/kg
Red Values Exceed 1 mg/kg
Gray Sample Locations were subsequently excavated and/or resampled
Figure only presents final closure data

Scale (1"=8')

**Figure 12** - Soil PCB Closure Data
SCFA Areas C and D
Yankee Nuclear Power Station - Rowe, MA

ERM

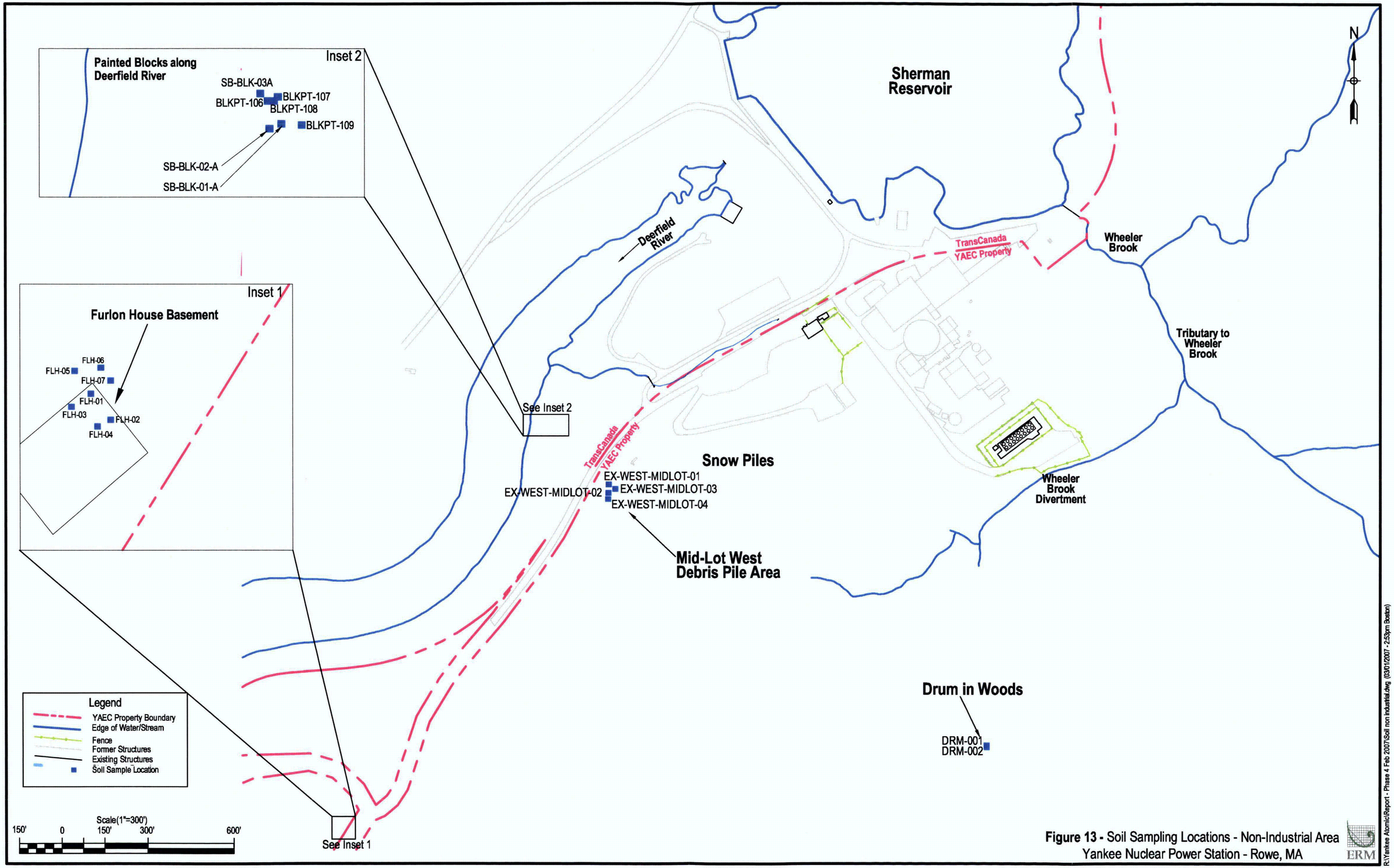



**Figure 13 -** Soil Sampling Locations - Non-Industrial Area
Yankee Nuclear Power Station - Rowe, MA

ERM

R:\Yankee Atomic\Report - Phase 4 Feb 2007\Soil non industrial.dwg (03/01/2007 - 2:53pm Boston)

Inset 1

See Inset 1

Peninsula

Sand Blast Grit Area

Scale(1"=10')

Railroad Ties Area

Service Building Soil Gas

Fuel Spill 164 Area

Turbine Building Office Area

Fuel Oil Tank Area

N

Legend
- YAEC Property Boundary
- Edge of Water/Stream
- Fence
- Former Structures
- Existing Structures
- Soil Sample Location
- Test Pit Location
- Composited Soil Grab Samples

Inset 3

Historic Petroleum
Firewater Pumphouse Drywell Area

Dioxin Area
Bulldozer Spill Area

See Inset 2

Firewater Tank (Tank55) Area

Inset 2

South Yard Sand Blast Grit Area

Scale(1"=16')

Scale(1"=40')

See Inset 3

Old Shooting Range

**Figure 14 -** Soil Sampling Locations - Industrial Area
Yankee Nuclear Power Station - Rowe, MA

ERM

N

Remaining Concrete
Removed Concrete
Limit of Treated Soil Reuse

Scale (1"=80')
40' 0 40' 80' 160'

**Figure 15** - Treated Soil Reuse Area
Yankee Nuclear Power Station - Rowe, MA

ERM

R:\Yankee Atomic\Report - Phase 4 Feb 2007\Exposure Areas_recover.dwg (03/01/2007 - 2:51pm Boston)

*Appendix A*
*Comprehensive Response Action*
*Transmittal Form (BWSC-108)*

**Massachusetts Department of Environmental Protection**
*Bureau of Waste Site Cleanup*

**BWSC108**

# COMPREHENSIVE RESPONSE ACTION TRANSMITTAL FORM & PHASE I COMPLETION STATEMENT

Pursuant to 310 CMR 40.0484 (Subpart D) and 40.0800 (Subpart H)

Release Tracking Number: 1 - 13411

**A. SITE LOCATION:**

1. Site Name: Yankee Nuclear Power Station
2. Street Address: 49 Yankee Road
3. City/Town: Rowe 4. ZIP Code: 01367-9799
5. UTM Coordinates: a. UTM N: 4, 732, 698 b. UTM E: 669, 604
6. [X] Check here if a Tier Classification Submittal has been provided to DEP for this disposal site.
   [ ] a. Tier IA [X] b. Tier IB [ ] c. Tier IC [ ] d. Tier II
7. If applicable, provide the Permit Number:

**B. THIS FORM IS BEING USED TO:** (check all that apply)

[ ] 1. Submit a **Phase I Completion Statement**, pursuant to 310 CMR 40.0484.

[ ] 2. Submit a **Revised Phase I Completion Statement**, pursuant to 310 CMR 40.0484.

[ ] 3. Submit a **Phase II Scope of Work**, pursuant to 310 CMR 40.0834.

[ ] 4. Submit an **interim Phase II Report**. This report does not satisfy the response action deadline requirements in 310 CMR 40.0500.

[ ] 5. Submit a **final Phase II Report and Completion Statement**, pursuant to 310 CMR 40.0836.

[ ] 6. Submit a **Revised Phase II Report and Completion Statement**, pursuant to 310 CMR 40.0836.

[ ] 7. Submit a **Phase III Remedial Action Plan and Completion Statement**, pursuant to 310 CMR 40.0862.

[ ] 8. Submit a **Revised Phase III Remedial Action Plan and Completion Statement**, pursuant to 310 CMR 40.0862.

[ ] 9. Submit a **Phase IV Remedy Implementation Plan**, pursuant to 310 CMR 40.0874.

[ ] 10. Submit a **Modified Phase IV Remedy Implementation Plan**, pursuant to 310 CMR 40.0874.

[ ] 11. Submit an **As-Built Construction Report**, pursuant to 310 CMR 40.0875.

[ ] 12. Submit a **Phase IV Status Report**, pursuant to 310 CMR 40.0877.

[X] 13. Submit a **Phase IV Completion Statement**, pursuant to 310 CMR 40.0878 and 40.0879.

Specify the outcome of Phase IV activities: (check one)

[X] a. Phase V Operation, Maintenance or Monitoring of the Comprehensive Remedial Action is necessary to achieve a Response Action Outcome.

[ ] b. The requirements of a Class A Response Action Outcome have been met. No additional Operation, Maintenance or Monitoring is necessary to ensure the integrity of the Response Action Outcome. A completed Response Action Outcome Statement and Report (BWSC104) will be submitted to DEP.

[ ] c. The requirements of a Class C Response Action Outcome have been met. No additional Operation, Maintenance or Monitoring is necessary to ensure the integrity of the Response Action Outcome. A completed Response Action Outcome Statement and Report (BWSC104) will be submitted to DEP.

[ ] d. The requirements of a Class C Response Action Outcome have been met. Further Operation, Maintenance or Monitoring of the remedial action is necessary to ensure that conditions are maintained and that further progress is made toward a Permanent Solution. A completed Response Action Outcome Statement and Report (BWSC104) will be submitted to DEP.

**(All sections of this transmittal form must be filled out unless otherwise noted above)**

**B. THIS FORM IS BEING USED TO (cont.):** (check all that apply)

☐ 14. Submit a **Revised Phase IV Completion Statement**, pursuant to 310 CMR 40.0878 and 40.0879.

☐ 15. Submit a **Phase V Status Report**, pursuant to 310 CMR 40.0892.

☐ 16. Submit a **Remedial Monitoring Report**. (This report can only be submitted through eDEP.)

a. Type of Report: (check one) ☐ i. Initial Report ☐ ii. Interim Report ☐ iii. Final Report

b. Frequency of Submittal: (check all that apply)

☐ i. A Remedial Monitoring Report(s) submitted monthly to address an Imminent Hazard.

☐ ii. A Remedial Monitoring Report(s) submitted monthly to address a Condition of Substantial Release Migration.

☐ iii. A Remedial Monitoring Report(s) submitted concurrent with a Status Report.

c. Status of Site: (check one) ☐ i. Phase V ☐ ii. Remedy Operation Status ☐ iii. Class C RAO

d. Number of Remedial Systems and/or Monitoring Programs: _____

A separate BWSC108A, CRA Remedial Monitoring Report, must be filled out for each Remedial System and/or Monitoring Program addressed by this transmittal form.

☐ 17. Submit a **Remedy Operation Status**, pursuant to 310 CMR 40.0893.

☐ 18. Submit a **Status Report to maintain a Remedy Operation Status**, pursuant to 310 CMR 40.0893(2).

☐ 19. Submit a **Modification of a Remedy Operation Status**, pursuant to 310 CMR 40.0893(5).

☐ 20. Submit a **Termination of a Remedy Operation Status**, pursuant to 310 CMR 40.0893(6).

☐ 21. Submit a **Phase V Completion Statement**, pursuant to 310 CMR 40.0894.

Specify the outcome of Phase V activities: (check one)

☐ a. The requirements of a Class A Response Action Outcome have been met. No additional Operation, Maintenance or Monitoring is necessary to ensure the integrity of the Response Action Outcome. A completed Response Action Outcome Statement (BWSC104) will be submitted to DEP.

☐ b. The requirements of a Class C Response Action Outcome have been met. No additional Operation, Maintenance or Monitoring is necessary to ensure the integrity of the Response Action Outcome. A completed Response Action Outcome Statement and Report (BWSC104) will be submitted to DEP.

☐ c. The requirements of a Class C Response Action Outcome have been met. Further Operation, Maintenance or Monitoring of the remedial action is necessary to ensure that conditions are maintained and/or that further progress is made toward a Permanent Solution. A completed Response Action Outcome Statement and Report (BWSC104) will be submitted to DEP.

☐ 22. Submit a **Revised Phase V Completion Statement**, pursuant to 310 CMR 40.0894.

☐ 23. Submit a **Post-Class C Response Action Outcome Status Report**, pursuant to 310 CMR 40.0898.

**(All sections of this transmittal form must be filled out unless otherwise noted above)**

**Massachusetts Department of Environmental Protection**
*Bureau of Waste Site Cleanup*

**BWSC108**

## COMPREHENSIVE RESPONSE ACTION TRANSMITTAL FORM & PHASE I COMPLETION STATEMENT

Release Tracking Number: 1 - 13411

Pursuant to 310 CMR 40.0484 (Subpart D) and 40.0800 (Subpart H)

**C. LSP SIGNATURE AND STAMP:**

I attest under the pains and penalties of perjury that I have personally examined and am familiar with this transmittal form, including any and all documents accompanying this submittal. In my professional opinion and judgment based upon application of (i) the standard of care in 309 CMR 4.02(1), (ii) the applicable provisions of 309 CMR 4.02(2) and (3), and 309 CMR 4.03(2), and (iii) the provisions of 309 CMR 4.03(3), to the best of my knowledge, information and belief,

> *if Section B indicates that a* ***Phase I, Phase II, Phase III, Phase IV or Phase V Completion Statement*** *is being submitted*, the response action(s) that is (are) the subject of this submittal (i) has (have) been developed and implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and (iii) comply(ies) with the identified provisions of all orders, permits, and approvals identified in this submittal;

> *if Section B indicates that a* ***Phase II Scope of Work*** *or a* ***Phase IV Remedy Implementation Plan*** *is being submitted*, the response action(s) that is (are) the subject of this submittal (i) has (have) been developed in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and (iii) comply(ies) with the identified provisions of all orders, permits, and approvals identified in this submittal;

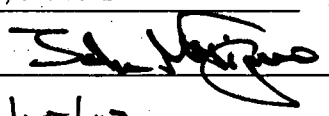
> *if Section B indicates that an* ***As-Built Construction Report, a Remedy Operation Status****,a* ***Phase IV, Phase V or Post-Class C RAO Status Report, a Status Report to Maintain a Remedy Operation Status*** *and/or a* ***Remedial Monitoring Report*** *is being submitted*, the response action(s) that is (are) the subject of this submittal (i) is (are) being implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and (iii) comply(ies) with the identified provisions of all orders, permits, and approvals identified in this submittal.

I am aware that significant penalties may result, including, but not limited to, possible fines and imprisonment, if I submit information which I know to be false, inaccurate or materially incomplete.

1. LSP #: 6423

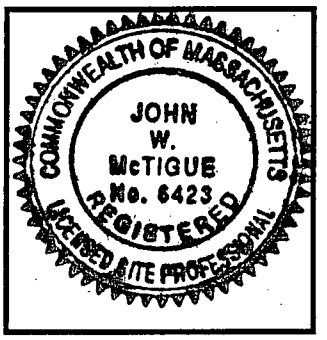
2. First Name: John 3. Last Name: McTigue

4. Telephone: (617) 646-7842 5. Ext.: _____ 6. FAX: (617) 267-6447

7. Signature: 

8. Date: 3/15/07 (mm/dd/yyyy)

9. LSP Stamp:



**Massachusetts Department of Environmental Protection**
*Bureau of Waste Site Cleanup*

**BWSC108**

Release Tracking Number
1 - 13411

## COMPREHENSIVE RESPONSE ACTION TRANSMITTAL FORM & PHASE I COMPLETION STATEMENT

Pursuant to 310 CMR 40.0484 (Subpart D) and 40.0800 (Subpart H)

**D. PERSON UNDERTAKING RESPONSE ACTIONS:**

1. Check all that apply: [X] a. change in contact name [ ] b. change of address [ ] c. change in the person undertaking response actions

2. Name of Organization: Yankee Atomic Electric Company

3. Contact First Name: Gerry 4. Last Name: vanNoordennen

5. Street: 49 Yankee Road 6. Title: Regulatory Affairs Manager

7. City/Town: Rowe 8. State: MA 9. ZIP Code: 01367-9799

10. Telephone: (413) 424-5261 11. Ext.: 12. FAX:

**E. RELATIONSHIP TO SITE OF PERSON UNDERTAKING RESPONSE ACTIONS:**

[ ] 1. RP or PRP [X] a. Owner [X] b. Operator [ ] c. Generator [ ] d. Transporter

[ ] e. Other RP or PRP Specify:

[ ] 2. Fiduciary, Secured Lender or Municipality with Exempt Status (as defined by M.G.L. c. 21E, s. 2)

[ ] 3. Agency or Public Utility on a Right of Way (as defined by M.G.L. c. 21E, s. 5(j))

[ ] 4. Any Other Person Undertaking Response Actions Specify Relationship:

**F. REQUIRED ATTACHMENT AND SUBMITTALS:**

[ ] 1. Check here if the Response Action(s) on which this opinion is based, if any, are (were) subject to any order(s), permit(s) and/or approval(s) issued by DEP or EPA. If the box is checked, you MUST attach a statement identifying the applicable provisions thereof.

[X] 2. Check here to certify that the Chief Municipal Officer and the Local Board of Health have been notified of the submittal of any Phase Reports to DEP.

[ ] 3. Check here to certify that the Chief Municipal Officer and the Local Board of Health have been notified of the availability of a Phase III Remedial Action Plan.

[ ] 4. Check here to certify that the Chief Municipal Officer and the Local Board of Health have been notified of the availability of a Phase IV Remedy Implementation Plan.

[ ] 5. Check here to certify that the Chief Municipal Officer and the Local Board of Health have been notified of any field work involving the implementation of a Phase IV Remedial Action.

[ ] 6. If submitting a Modification of a Remedy Operation Status, check here to certify that a statement detailing the compliance history, as per 310 CMR 40.0893(5), for the person making this submittal is attached.

[ ] 7. If submitting a Modification of a Remedy Operation Status, check here to certify that written consent of the person who submitted the Remedy Operation Status submittal, as per 310 CMR 40.0893(5), is attached.

[ ] 8. Check here if any non-updatable information provided on this form is incorrect, e.g. Site Name. Send corrections to the DEP Regional Office.

[X] 9. Check here to certify that the LSP Opinion containing the material facts, data, and other information is attached.

**Massachusetts Department of Environmental Protection**
*Bureau of Waste Site Cleanup*

**BWSC108**

Release Tracking Number
1 - 13411

## COMPREHENSIVE RESPONSE ACTION TRANSMITTAL FORM & PHASE I COMPLETION STATEMENT

Pursuant to 310 CMR 40.0484 (Subpart D) and 40.0800 (Subpart H)

**G. CERTIFICATION OF PERSON UNDERTAKING RESPONSE ACTIONS:**

1. I, Gerry vanNoordennen, attest under the pains and penalties of perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this transmittal form, (ii) that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained in this submittal is, to the best of my knowledge and belief, true, accurate and complete, and (iii) that I am fully authorized to make this attestation on behalf of the entity legally responsible for this submittal. I/the person or entity on whose behalf this submittal is made am/is aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

2. By: Gerry van Noordennen (Signature) 3. Title: Regulatory Affairs Manager

4. For: Yankee Atomic Power Company (Name of person or entity recorded in Section D) 5. Date: 03/16/2007 (mm/dd/yyyy)

☐ 6. Check here if the address of the person providing certification is different from address recorded in Section D.

7. Street:

8. City/Town: 9. State: 10. ZIP Code:

11. Telephone: 12. Ext.: 13. FAX:

**YOU ARE SUBJECT TO AN ANNUAL COMPLIANCE ASSURANCE FEE OF UP TO $10,000 PER BILLABLE YEAR FOR THIS DISPOSAL SITE. YOU MUST LEGIBLY COMPLETE ALL RELEVANT SECTIONS OF THIS FORM OR DEP MAY RETURN THE DOCUMENT AS INCOMPLETE. IF YOU SUBMIT AN INCOMPLETE FORM, YOU MAY BE PENALIZED FOR MISSING A REQUIRED DEADLINE.**

Date Stamp (DEP USE ONLY:)

*Appendix B*
*Public Involvement Notification*

Environmental
Resources
Management

399 Boylston Street
6th Floor
Boston, MA 02116
(617) 646-7800
(617) 267-6447 (fax)

16 March 2007
Ref: 63019.2

ERM

Ms. Myra Carlow
Chairman, Board of Selectmen
Rowe Town Hall
321 Zoar Road
Rowe, Massachusetts 01367

RE: Notice of Availability
Phase IV Final Inspection Report
Yankee Nuclear Power Station
Rowe, Massachusetts
RTN # 1-13411

Dear Ms. Carlow:

On behalf of Yankee Atomic Electric Company (Yankee), Environmental Resources Management (ERM) has submitted a Phase IV Final Inspection Report for the above referenced site to the Massachusetts Department of Environmental Protection (DEP) Western Regional Office. In accordance with 310 CMR 40.1403(3)(e), the Chief Municipal Officer and the Board of Health are being notified of the availability of this submittal.

Information regarding the submittal can be reviewed at:

Massachusetts Department of Environmental Protection
Western Regional Office
436 Dwight Street, 5th Floor
Springfield, MA 01103
Phone: (413) 784-1100 Fax: (413) 784-1149

Sincerely,

John W. McTigue, P.G., LSP
*LSP of Record*

Environmental
Resources
Management

399 Boylston Street
6th Floor
Boston, MA 02116
(617) 646-7800
(617) 267-6447 (fax)

16 March 2007
Ref: 63019.2

Mr. Richard Alix
Chairman, Board of Health
Rowe Town Hall
321 Zoar Road
Rowe, Massachusetts 01367

RE: Notice of Availability
Phase IV Final Inspection Report
Yankee Nuclear Power Station
Rowe, Massachusetts
RTN # 1-13411

Dear Mr. Alix:

On behalf of Yankee Atomic Electric Company (Yankee), Environmental Resources Management (ERM) has submitted a Phase IV Final Inspection Report for the above referenced site to the Massachusetts Department of Environmental Protection (DEP) Western Regional Office. In accordance with 310 CMR 40.1403(3)(e), the Chief Municipal Officer and the Board of Health are being notified of the availability of this submittal.

Information regarding the submittal can be reviewed at:

Massachusetts Department of Environmental Protection
Western Regional Office
436 Dwight Street, 5th Floor
Springfield, MA 01103
Phone: (413) 784-1100 Fax: (413) 784-1149

Sincerely,

John W. McTigue, P.G., LSP
*LSP of Record*

*Appendix C*
*Laboratory Reports*

Electronic or paper copies are available upon request.

*Appendix D*
*Manifests*

Electronic or paper copies are available upon request.