Prepare in quintuplicate (original and 4 copies)

CONTRACTOR DRAWINGS & INFORMATION SUBMITTAL
NORTHNAVFACENGCOM 4335/3 (Rev. 6/80)

CONTROL NO. 8B

CONTRACT NO.	DELIVERY ORDER #	ACTIVITY LOCATION
N62472-94-D-0398	0038	Portsmouth Naval Shipyard – Jamaica Island Landfill, ME

PROJECT TITLE:
MERCURY BURIAL VAULT II AND DRUM INVESTIGATION

FROM:	DATE
Foster Wheeler Environmental Corp. - Program QCM: Mark Miller	June 18, 2001
TO:	DATE
C DAVIS	June 18, 2001

1. THE CONTRACTOR SUBMITTALS LISTED BELOW ARE FORWARDED FOR YOUR REVIEW AND RECOMMENDATIONS.
   (a) APPLY APPROPRIATE STAMP IMPRINT TO EACH SUBMITTAL AND INDICATE REVIEW COMMENTS, AS REQUIRED.
   (b) RETAIN ONE (1) COPY OF THIS TRANSMITTAL FORM AND RETURN REMAINING COPIES WITH REVIEWED SUBMITTALS TO ROICC.
2. THESE SUBMITTALS SHOULD BE RETURNED TO THIS OFFICE BY _____
3. _____

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Mark Miller JUNE 18, 2001
SIGNATURE AND DATE

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TO: ROICC	DATE

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1. THE SUBMITTALS LISTED BELOW HAVE BEEN REVIEWED AND ARE APPROVED/DISAPPROVED AS SHOWN BELOW AND ON EACH STAMP IMPRINT.

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FOR COMMANDING OFFICER, NORTHERN DIVISION NAVAL FACILITIES ENGINEERING COMMAND — DATE

ITEM NO.	SUBMITTAL DESCRIPTION	PREPARED/ SUBMITTED BY	APPROVED	DISAPPROVED	REMARKS
10b	SD-09, Reports;Final Removal Action Report – Mercury Burial Vault II	Mark Miller			

FOSTER WHEELER ENVIRONMENTAL CORPORATION

June 18, 2001
File #: 1284-0038-01-0211

Ms Meghan Cassidy
USEPA Region I
1 Congress Street
Suite 1100
Mail Code: HBT
Boston, MA 02114-2023

Mr. Iver McLeod
Maine Department of Environmental Protection
State House Station #17
Augusta, ME 04333

Subject: Final Removal Action Report
Mercury Burial Vault Site II
Portsmouth Naval Shipyard
Kittery, Maine

Dear Ms. Cassidy and Mr. McLeod:

On the behalf of the US Navy, Foster Wheeler Environmental Corporation is pleased to present the Final Removal Action Report for Mercury Burial Vault Site II at the Portsmouth Naval Shipyard in Kittery, Maine. This Final Removal Action Report has been revised to address comments from the USEPA and MEDEP on the December 13, 2000 Draft Removal Action Report. The comments and responses are included herein.

Should you have any questions or request for additional information please feel free to contact Mr. Fred Evans at (610) 595-0567 Extension 159.

Very truly yours,

Carl Tippmann

Carl Tippmann, PE

cc: Distribution
File

2300 LINCOLN HIGHWAY EAST, ONE OXFORD VALLEY, SUITE 200, LANGHORNE, PA 19047-1829
TEL: 215-702-4000 FAX: 215-702-4045

RESPONSES TO USEPA COMMENTS DATED FEBRUARY 7, 2001
MERCURY BURIAL VAULT SITE II DRAFT REMOVAL ACTION REPORT
PORTSMOUTH NAVAL SHIPYARD, KITTERY, MAINE
SUBMITTED OCTOBER 18, 2000

General

Comment: Once again, EPA is disappointed with the quality of the document submitted by Foster Wheeler on behalf of the Navy. This document, as with other Foster Wheeler documents submitted on this project in the past, are poorly drafted and appear to go through no quality control process before being submitted. The Navy must make efforts to ensure the documents submitted by their contractors meet at least minimum quality standards before considering them ready for distribution and review.

Response: Comment noted. The Navy will make efforts to ensure the documents submitted by their contractors meet minimum quality standards before considering them ready for distribution and review.

Specific

1. **Comment:** Figure2: This figure must be updated. The figure shows the suspected location of Mercury Burial Vault II (MBII). Since this Action Memorandum documents a removal action that has already been completed, the actual location must be shown.

   Response: Figure 2 Facility Layout Map has been updated and Figure 4 Mercury Burial Vault Site II Location Map has been added to the report.

2. **Comment:** Page 5, Section 2.1.4: The text indicates that post-excavation confirmatory samples were compared to a level of 5.5 mg/kg. The text must explain the rationale behind the use of this value.

   Response: The following sentence has been added to Section 3.0 Post-Excavation Sample Collection and Analysis: Results of these samples were compared to the Media Protection Standard (MPS) of 5.5 mg/kg for mercury, this value is based on sample results obtained during the RCRA Facilities Investigation Report (RFI) (McLaren/Hart, 1992) and the RFI Data Gap Report (Halliburton NUS, 1995) for NSY Portsmouth.

3. **Comment:** Page 5, Section 2.1.4: Under the discussion regarding the concrete debris, include a discussion regarding the disposal of this debris.

   Response: Section 4.0 Waste Disposal has been added to the report.

4. **Comment:** Page 6, Section 2.1.4: The text should include the analytical value from sample JILF-MBV-WC-SP01.

   Response: The sentence has been changed to the following: The analytical data indicated that the soil pile sample (JILF-MBV-WC-SP01) had a mercury concentration of 0.17 mg/kg, which was significantly below the MPS of 5.5 mg/kg.

5. **Comment:** Page 6, Section 2.1.5: The information provided here is not the most accurate data available. The information regarding the Feasibility Study must be updated.

   Response: This section has been removed from the report in response to MEDEP General Comment No. 1, Third Bullet.

6. **Comment:** Page 6, Section 2.2.2: The information provided here would be more useful to the reader if it were included at the beginning of Section 2.1.4.

   Response: This section has been moved to Section 2.1.5 and has been renamed Removal Actions.

7. **Comment:** Page 7, Section 2.3.1: The text refers to a cooperative agreement between EPA and the Navy. There is no such agreement in place. The Navy is the lead agency through Executive Orders, the statute and the NCP, not based on any agreement between the two agencies.

   Response: The following sentence has been removed from the report: The Navy is the lead agency under the cooperative agreement with the EPA.

8. **Comment:** Page 7, Section 3.0: The verb tense in this section does not indicate work that has been done. Please revise.

   Response: This section has been removed from the report in response to MEDEP General Comment No. 1, Third Bullet.

9. **Comment:** Page 9, Section 4.0: This section should present actual costs. Please revise.

   Response: Section 8.0 Actual Costs has been added to the report.

10. **Comment:** Page 9, Section 4.1: There is no Appendix C in this document.

    Response: The Project Schedule has been included as Appendix E.

RESPONSES TO MEDEP COMMENTS DATED JANUARY 29, 2001
MERCURY BURIAL VAULT SITE II DRAFT REMOVAL ACTION REPORT
PORTSMOUTH NAVAL SHIPYARD, KITTERY, MAINE
SUBMITTED OCTOBER 18, 2000

1. **General Comment:**

This report was typical of reports prepared by Foster Wheeler that we have reviewed previously. A list of problems includes the following:

- **Comment:** Figure mislabeling and incompleteness

  Response: Figures have been corrected.

- **Comment:** Report Outline – sections not in logical order

  Response: Report sections have been rearranged.

- **Comment:** Repeated inappropriate material from the Work Plan

  Response: Inappropriate material from the Work Plan has been removed from the report.

- **Comment:** Lack of adequate explanations for well abandonments, etc

  Response: Section 2.1.4 Well Abandonment has been added to the report.

- **Comment:** No documentation of geologic materials encountered

  Response: A short discussion about materials present at the site has been added to the report.

- **Comment:** No excavation diagram showing the discovered vault positions

  Response: Figure 4 Mercury Burial Vault Site II Location Map has been added to the report.

- No photographs of the excavation and vaults

  Response: Photographs have been included as Appendix B.

- **Comment:** No mention of Work Plan approval by EPA and MEDEP

  Response: Work Plan approval by USEPA and MEDEP has been added to Section 1.0 Introduction.

- **Comment:** No table summarizing analytical results, and including XYZ coordinates

  Response: Table 1 Mercury Analytical Results has been added to the report.

2. **Comment:** 1.0 Purpose

Figure 1 does not accurately show the location of MBVII. Please correct.

Response: Figure 1 has been corrected.

3. 2.1.4 Release or Threatened Release to the Environment of a Hazardous Substance, p.5

   a) **Comment:** The discussion of the nature of the vaults and the drums within them (Current Actions) should be included between this section and the previous section, not at the end of the document.

      Response: A short discussion about the condition of the vaults and drums has been added to Section 2.1.5 Removal Actions.

   b) **Comment:** "Table 1 summarizes the sample data."

      Table 1 is missing.

      Response: Table 1 Mercury Analytical Results has been added to the report.

   c) **Comment:** "Laboratory analytical data is included as Attachment 3."

      Lab data are included as Appendix B. Please correct the reference. .

      Response: Laboratory Analytical Data has been included as Appendix C.

4. **Comment:** Post-Excavation Sample Collection and Analysis, p. 5

   "Analytical results indicated that all post-excavation confirmatory samples fell below 5.5 mg/kg, therefore the excavation was considered suitable to be backfilled."

   What is the significance of 5.5 mg/kg? What is this apparent screening value based on? This information should be included in the report.

   Response: The following sentence has been added to Section 3.0 Post-Excavation Sample Collection and Analysis: Results of these samples were compared to the Media Protection Standard (MPS) of 5.5 mg/kg for mercury, this value is based on sample results obtained during the RCRA Facilities Investigation Report (RFI) (McLaren/Hart, 1992) and the RFI Data Gap Report (Halliburton NUS, 1995) for NSY Portsmouth.

5. **Comment:** Concrete Debris Sample Collection and Analysis, p. 5

   "The analytical result of 8.4 mg/kg exceeded the 5.5 mg/kg limit."

   This is significant information in that it indicates that mercury leaked into the concrete. Please provide further information regarding how this might have occurred. There is no discussion of the condition of the drums within this report – these results indicate at least one of them leaked.

   Response: The following sentence has been added to Section 3.2 Concrete Debris Sample Collection and Analysis: This elevated concentration of mercury present in the concrete may be contributed to either the waste materials being loose in the vault and not contained in drums, as was the case in MV #2 or to the leaking drums due to hammering the concrete, as was the case in MV #3 and MV #7.

6. **Comment:** Stockpiled Soil Sample Collection and Analysis, p. 6

   "...the soil pile sample...was below the 5.5 mg/kg."

   Please state the actual value of the result in the text.

Response: The sentence has been changed to the following: The analytical data indicated that the soil pile sample (JILF-MBV-WC-SP01) had a mercury concentration of 0.17 mg/kg, which was significantly below the MPS of 5.5 mg/kg.

7. **Comment:** 2.1.5 National Priority List Status

   It is unclear why the 1995 draft FS is referenced in this section. If it is necessary to reference the FS, the November 2000 OU3 FS should be referenced. This section should also indicate this Site's relation to the OU3/Site 8 remediation, i.e. it's NFA status.

   Response: This section has been removed from the report in response to MEDEP General Comment No. 1, Third Bullet.

8. 2.2.2 Current Actions, pp. 6-7

   a) **Comment:** This entire section should be moved to the front of the document.

      Response: This section has been moved to Section 2.1.5 and has been renamed Removal Actions.

   b) **Comment:** This section is lacking in details. For instance, there is no discussion of the condition of the drums found within the vaults. The report should also discuss how the mercury waste was disposed (don't just say "Proper Disposal"). Site restoration activities should also be detailed.

      Response: A short discussion about the condition of the vaults and drums has been added to Section 2.1.5 Removal Actions. Section 4.0 Waste Disposal has been added to the report. Section 5.0 Site Restoration has been added to the report.

9. **Comment:** 4.1 Project Schedule, p. 9

   "The project schedule is presented as Appendix C."

   The report has no Appendix C or project schedule though it is unclear as to why it is necessary to include this schedule.

   Response: The Project Schedule has been included as Appendix E.

10. **Comment:** 7.0 Recommendation, p. 9

    "This decision document represents the emergency removal action at JILF at the Portsmouth Naval Shipyard, Kittery, Maine."

    This statement is not a recommendation. Please revise or delete.

    Response: This section has been removed from the report.

FINAL REMOVAL ACTION REPORT
FOR
MERCURY BURIAL VAULT SITE II
PORTSMOUTH NAVAL SHIPYARD
KITTERY, MAINE

Issued:

June 18, 2001

Prepared for:

DEPARTMENT OF THE NAVY
ENGINEERING FIELD ACTIVITY, NORTHEAST
NAVAL FACILITIES ENGINEERING COMMAND
10 Industrial Highway, Mail Stop #82
Lester, PA 19113-2090

Contract No. N62472-94-D-0398
Delivery Order No. 0038

Prepared by:

FOSTER WHEELER ENVIRONMENTAL CORPORATION
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Revision	Date	Prepared By	Approved By	Pages Affected
0	October 17, 2000	M. Block	C. Tippmann, P.E.	All
1	May 10, 2001	M. Block	C. Tippmann, P.E.	All
2	June 18, 2001	T. Kelly	C. Tippmann, P.E.	All

FINAL REMOVAL ACTION REPORT
REMEDIAL ACTION CONTRACT N62472-94-D-0398
DELIVERY ORDER NO. 0038
MERCURY BURIAL VAULT SITE II
PORTSMOUTH NAVAL SHIPYARD
KITTERY, MAINE

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FIGURES

Figure 1 Site Location Map
Figure 2 Facility Layout Map
Figure 3 Jamaica Island Landfill and Mercury Burial Vault Site II Layout Map
Figure 4 Mercury Burial Vault Site II Location Map
Figure 5 Mercury Burial Vault Site II Approximate Locations of Excavation and Confirmation Sample Points

TABLES

Table 1 Mercury Analytical Results
Table 2 Summary of Disposal Manifests

APPENDICES

Appendix A Well Decommissioning Logs
Appendix B Photographs
Appendix C Laboratory Analytical Data
Appendix D Disposal Documentation
Appendix E Project Schedule

1.0 INTRODUCTION

Foster Wheeler Environmental Corporation (Foster Wheeler) has been contracted by the Department of the Navy - Engineering Field Activity, Northeast (EFANE) - Naval Facilities Engineering Command to excavate Mercury Burial Vault Site II (MB II) located at the Jamaica Island Landfill at Portsmouth Naval Shipyard (NSY Portsmouth) located in Kittery, Maine, as shown on Figure 1.

The purpose of this Removal Action Report is to document the removal action described herein at the MB II. Foster Wheeler located MB II, excavated the vaults and removed and repackaged their contents for disposal. Foster Wheeler performed this work according to the Final Work Plan For Mercury Burial Vault Site II and Drum Investigation at the Portsmouth Naval Shipyard, written by Foster Wheeler in February 2000, and approved by USEPA and MEDEP.

2.0 SITE CONDITIONS AND BACKGROUND

2.1 SITE DESCRIPTION

2.1.1 Site Location

NSY Portsmouth is situated within the town limits of Kittery, Maine. It is located on an island in the Piscataqua River referred to on National Oceanographic and Atmospheric Association (NOAA) nautical charts as Seavey Island, with the eastern tip given the name Jamaica Island. Attached by a rock causeway is Clark's Island, which is undeveloped and has the potential for prehistoric and archeological resources along its undeveloped shorelines. The Piscataqua River is a tidal estuary, which forms the southern boundary between New Hampshire and Maine. NSY Portsmouth is located at the mouth of the Great Bay Estuary (commonly referred to as Portsmouth Harbor).

Historically, the shipyard has been involved in the design, construction and servicing of naval submarines. Currently the facility only services naval submarines. A section of NSY Portsmouth, located between Jamaica Island and Seavey Island, is called the Jamaica Island Landfill (JILF). JILF is approximately 25 acres of filled-in tidal flats, which was used as a solid waste disposal area by the Navy from the 1940s to the 1970s.

2.1.2 Site Characteristics

The JILF and MB II are located within a tidal flat that was filled-in between 1945 and 1978 along the northern shore of the Piscataqua River and Clarks Island Embayment. The bedrock consists of highly metamorphosed sandstone and siltstone. The fracture patterns are quite complex. Overburden material consists of glacial till, tidal flat, beach deposits, and manemplaced fill. The thickness of the overburden ranges across NSY Portsmouth from 5 feet to 60 feet. The depth to bedrock based on monitor well installations and soil borings around MB II is approximately 25 to 30 feet below grade. In this area, the soil conditions were mainly native silty sands with fill material and miscellaneous debris.

Groundwater was encountered, during an excavation at MB II, at 20 to 25 feet below grade. Although groundwater was encountered at 20 to 25 feet below grade, the excavation did not fill up with any water during the time in which it was open. The general flow direction is east toward the landfill. Tidal influences in MW-2 and MW-3 were minimal. Variations in the salinity of the groundwater are effected by tidal fluctuations and by the seasons. The groundwater at MB II is fresh water.

2.1.3 Removal Site Evaluation

MB II is located in the Jamaica Island Landfill (JILF), as shown on Figure 2, on the eastern side of NSY Portsmouth and consists of eight poured concrete vaults containing drums of mercury contaminated materials. The vaults are resting on one-foot thick concrete pads. The Navy buried these vaults between

1973 and 1975. The vaults ranged from 4 ft by 4 ft by 4 ft to 8 ft by 4 ft by 4 ft. Based on the size of the vaults, there was an estimated 450 cubic yards of waste materials and concrete. A site layout map of JILF and MB II is shown on Figure 3.

2.1.4 Well Abandonment

On July 17, 2000 Environmental Drilling Inc. abandoned monitoring wells MW-2 and MW-3. Both of these wells were within the proposed excavation area and therefore had to be closed before removal activities began.

Both wells were decommissioned in accordance with Maine State regulations. The well covers were removed and the total well depths were measured. Grout was then poured into the well. Well Decommissioning Logs are included as Appendix A.

2.1.5 Removal Actions

Excavation and removal activities occurred at the MB II from July 17 through July 26, 2000. The area to be excavated, as shown on Figure 4, was located after several unsuccessful investigations of the MB II.

Once the wells were abandoned, excavation activities began. Eight mercury burial vaults were discovered and removed from the excavation. All eight vaults were extracted intact with the exception of Mercury Vault #2 (MV #2). This vault was partially open on its underside, in the area where the vault had once been attached to the concrete foundation, exposing the three drums contained inside. These drums were in fair condition with one drum slightly dented. However, loose material was in MV #2 and spilled onto the soil below MV #2. This material was placed into a drum.

The concrete vaults were placed either into a plastic lined roll-off or into a plastic lined earthen berm containment area and a hydraulic hammer was used to break the concrete vaults open to expose the drums. Photographs are included as Appendix B. Twenty-two drums were removed from the eight vaults. As was the case with the drums in MV #2, the drums exposed from Mercury Vaults #1, #5, #6, and #8 were in fair condition, no holes or cracks were noted. However while hammering MV #3, two drums were punctured/cracked and one of the punctured/cracked drums was leaking from the top ring. Also while removing the concrete from MV #4 the bung top from one of the drums was embedded in the concrete when the top of the vault was removed and this caused a slight spillage onto the top of the drum. While hammering MV #7 two of the three drums had slight leaks. Eight of the twenty-two drums contained assorted mercury waste, including debris with mercury residue, thermometers and dials, jars of pure mercury, and miscellaneous mercury containing products. The remaining fourteen drums contained liquid mercuric waste. The solid wastes were removed from the original drums and placed into steel storage drums for disposal. Drums containing liquid waste were either placed intact into steel overpack drums, or their contents were pumped into liquid storage drums. The original drums were placed into roll-offs, for disposal, after being emptied. The Shipyard Environmental Division took possession of the mercury drum waste for disposal. The concrete debris was sampled and analyzed for total mercury, and disposed of as hazardous waste by the Shipyard. The stockpiled soil was analyzed for total mercury and reused for backfill.

The soils underlying the containment area may have been impacted by material leaking through small tears in the plastic liner. The containment area was demobilized and the soils underlying the area were removed to an approximate depth of 6 inches. Two samples were collected from the soil remaining to ensure that no contaminated soils remained. Plastic sheeting from the containment area and any waste liquid were removed and placed into the waste storage drums with the other mercury wastes. The soil removed from the area was segregated from other excavated soils, placed into roll-offs and disposed of as a hazardous waste by the Shipyard.

Air monitoring for mercury vapors, volatile organic compounds, combustible gases, and dust emissions was performed to ensure the health and safety of employees handling site materials. Personal dosimeter badges

were issued to workers handling the mercury wastes, and during excavation activities for analysis of mercury vapor exposure.

3.0 POST-EXCAVATION SAMPLE COLLECTION AND ANALYSIS

Samples were collected for post-excavation confirmation, soil reuse as backfill, and waste classification of concrete debris. Results of these samples were compared to the Media Protection Standard (MPS) of 5.5 mg/kg for mercury, this value is based on sample results obtained during the RCRA Facilities Investigation Report (RFI) (McLaren/Hart, 1992) and the RFI Data Gap Report (Halliburton NUS, 1995) for NSY Portsmouth.

Figure 5 depicts the approximate location of the excavation and the confirmation sample points. Table 1 summarizes the mercury analytical results. Samples were sent to ChemTech Laboratories for analysis. Laboratory analytical data is included as Appendix C.

3.1 POST-EXCAVATION SOIL SAMPLING

A total of six post-excavation confirmatory samples were collected from the sidewalls and bottom of the excavation after the removal of the mercury vaults and any surrounding impacted soils. The track hoe bucket was used to remove a small amount of soil from the sample point and the sample was collected from the center of the bucket to avoid cross contamination from the bucket. Two bottom samples were collected from the north (JILF-MBV-CS-SB01) and south (JILF-MBV-CS-BS02) end of the excavation, at a depth of approximately 25 feet below ground surface. Bottom sample locations were biased to include the soil that was under the vaults prior to excavation. Four sidewall samples were collected from the north (JILF-MBV-CS-SWN01), south (JILF-MBV-CS-SWS01), east (JILF-MBV-CS-SWE01), and west (JILF-MBV-CS-SWW01) sidewall, and they were biased to the depth that corresponded with the depth of the vaults (approximately 17 to 25 feet below ground surface.)

Bottom and sidewall samples were analyzed for total mercury. Analytical results indicated that the mercury concentrations in the post-excavation soil samples ranged from 0.05 to 0.18 mg/kg, all of which are below the mercury MPS of 5.5 mg/kg, therefore the excavation was considered suitable to be backfilled.

3.2 CONCRETE DEBRIS SAMPLE COLLECTION AND ANALYSIS

One composite sample (JILF-MBV-WC-CD01) was collected from the concrete vault debris. Chips of concrete, considered representative of each of the eight vaults, were crushed and analyzed for total mercury. The analytical result of 8.4 mg/kg exceeded the mercury MPS of 5.5 mg/kg. This elevated concentration of mercury present in the concrete may be contributed to either the waste materials being loose in the vault and not contained in drums, as was the case in MV #2 or to the leaking drums due to hammering the concrete, as was the case in MV #3 and MV #7.

3.3 CONTAINMENT AREA EXCAVATION SAMPLE COLLECTION AND ANALYSIS

When the containment area was demobilized, the surface soils (approximately 0 to 6 inches) below the area were excavated and shipped off site as a hazardous waste. The containment area was approximately 16 feet by 16 feet.

In order confirm that mercury contaminated soils were removed from the containment area, two samples (JILF-MBV-Scrapedown#1 and JILF-MVB-Scrapedown#2) were collected from the soil underlying the containment area after the potentially impacted soils were removed. They were analyzed for total mercury.

The analytical results indicated that both samples were below the mercury MPS of 5.5 mg/kg. Results of JILF-MBV-Scrapedown#1 and JILF-MVB-Scrapedown#2 were 0.06 and 0.21 mg/kg, respectively.

3.4 STOCKPILED SOIL SAMPLE COLLECTION AND ANALYSIS

Approximately 400 cubic yards of soil was excavated during the mercury vault removal. The soil was stockpiled on site, and sampled for total mercury in order to confirm that the soil could be placed back into the excavation as backfill. Five discrete grab samples were collected from five locations in the pile. The samples were collected from 6 to 12 inches into the soil pile. The five grabs were composited on an equal volume basis to form one sample (JILF-MBV-WC-SP01) for analysis. The analytical data indicated that the soil pile sample (JILF-MBV-WC-SP01) had a mercury concentration of 0.17 mg/kg, which was significantly below the mercury MPS of 5.5 mg/kg. The stockpiled soil was therefore replaced into the excavation as backfill.

4.0 WASTE DISPOSAL

The Shipyard performed disposal of waste. The Shipyard took possession of fourteen drums of liquid mercury waste and eight drums of solid mercury waste for disposal. Plastic, personal protection equipment (PPE) and decontamination water were drummed with mercuric wastes that had been removed from the vaults. Concrete debris, soil, and the original empty drums were placed into 30-yard roll-off dumpsters for disposal as a hazardous waste. See Table 2 for a Summary of Disposal Manifests. Disposal Documentation is included as Appendix D.

5.0 SITE RESTORATION

The excavation was backfilled with stockpiled soil and compacted with the bucket of the excavator. The area was then covered with crushed stone to provide a storage area for the Navy.

6.0 OTHER ACTIONS ADDRESSING MERCURY BURIAL VAULT SITE II

6.1 PREVIOUS ACTIONS

The June 1994 RFI Data Gap Work Plan by the Halliburton NUS Corporation described unsuccessful excavation activities within an area thought to be the MB II. Nine exploratory trenches were dug during the Phase IVA investigation, however no evidence of poured concrete blocks or mercury contaminated soils was uncovered.

7.0 STATE AND LOCAL AUTHORITY ROLES

7.1 STATE AND LOCAL ACTIONS

The Navy was the lead agency for the emergency removal action under CERCLA. All recommendations and comments made by the USEPA, MEDEP, and the Restoration Advisory Board (RAB) were considered.

8.0 ACTUAL COSTS

The actual project costs (as of 3/30/01) are as follows:

Professional Services		$141,253
Craft Labor		$ 5,125
Equipment		$ 25,482
Materials		$ 6,567
Other Direct Costs		$ 21,556
Subcontractors		$ 71,392
Laboratory Analysis	$44,590	
Excavation	$19,006	
Backfill	$ 7,796	
Total		**$271,375**

9.0 PROJECT SCHEDULE

The project schedule is included as Appendix E.

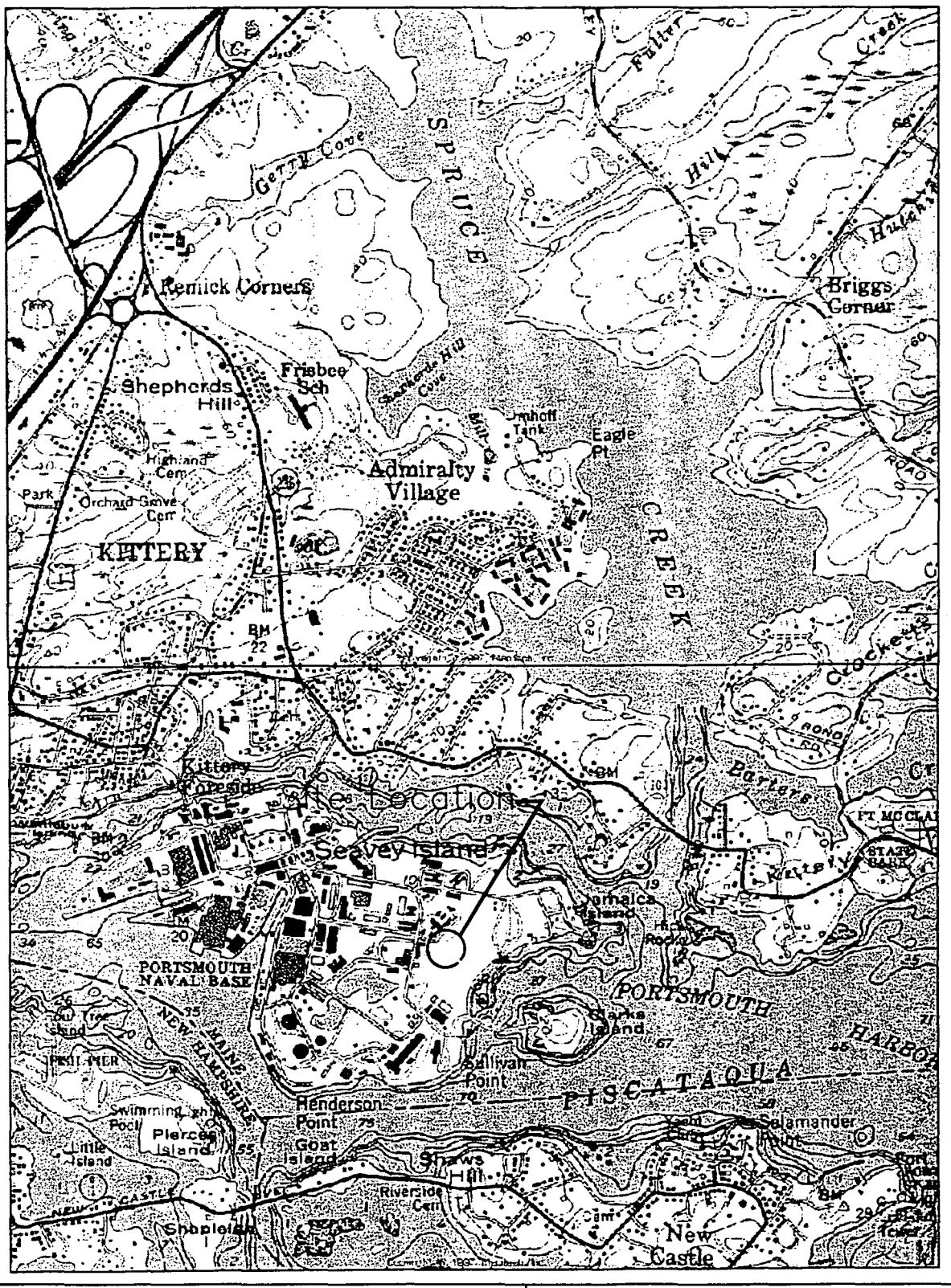
10.0 OUTSTANDING POLICY ISSUES

There are no outstanding policy issues as a result of this emergency removal action.

11.0 REFERENCES

Halliburton NUS Corporation. RFI Data Gap Work Plan for Portsmouth Naval Shipyard Kittery, Maine. June 1994.

FIGURES



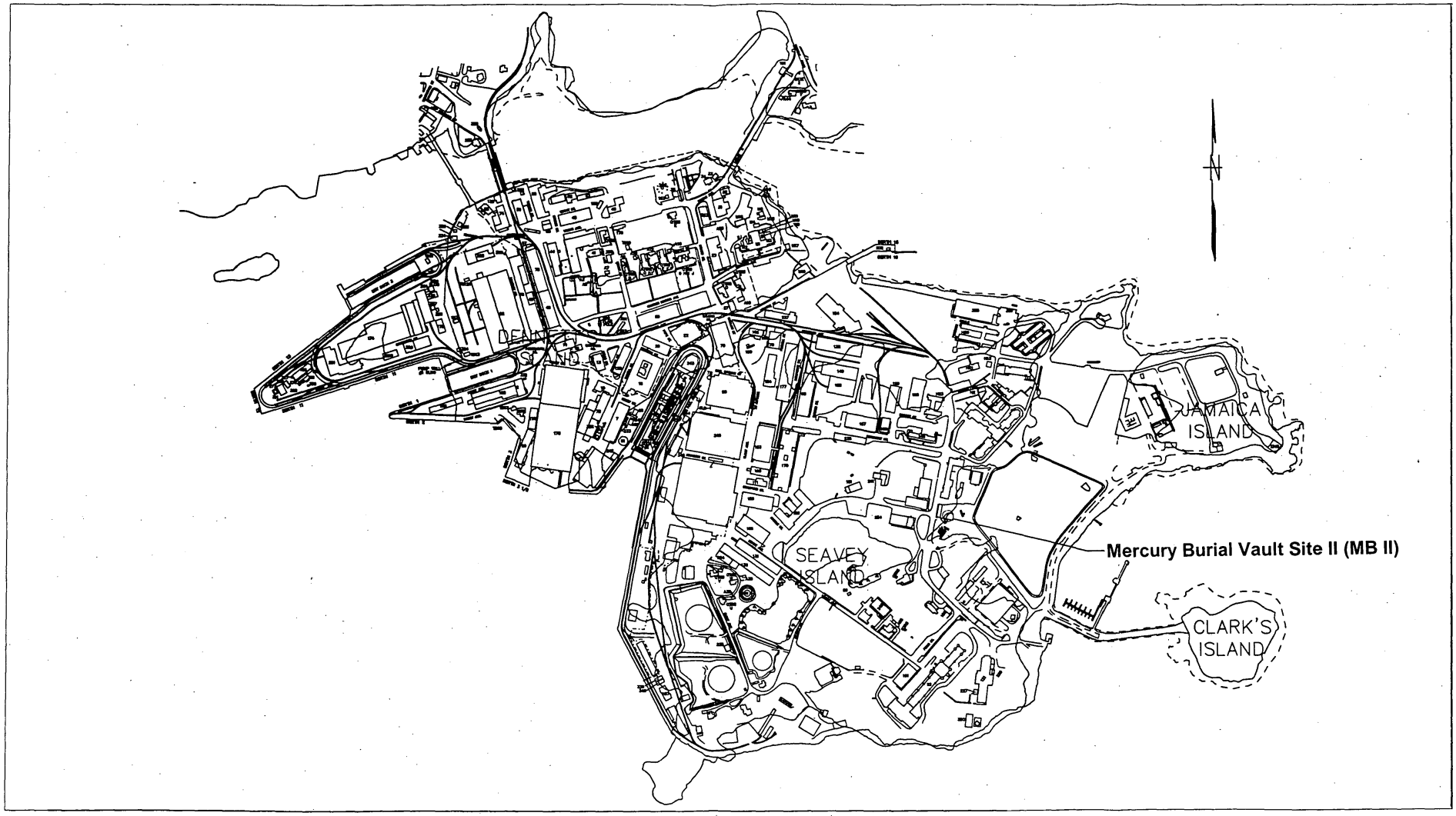
0 2000 4000 FEET

Source: U.S.G.S. Topographic Maps (7.5 Minute)
Portsmouth, NH–ME Quadrangle, 1956, Photorevised 1993.

U.S. Navy RAC
Portsmouth Naval Shipyard
Kittery, Maine

Figure 1
Site Location Map

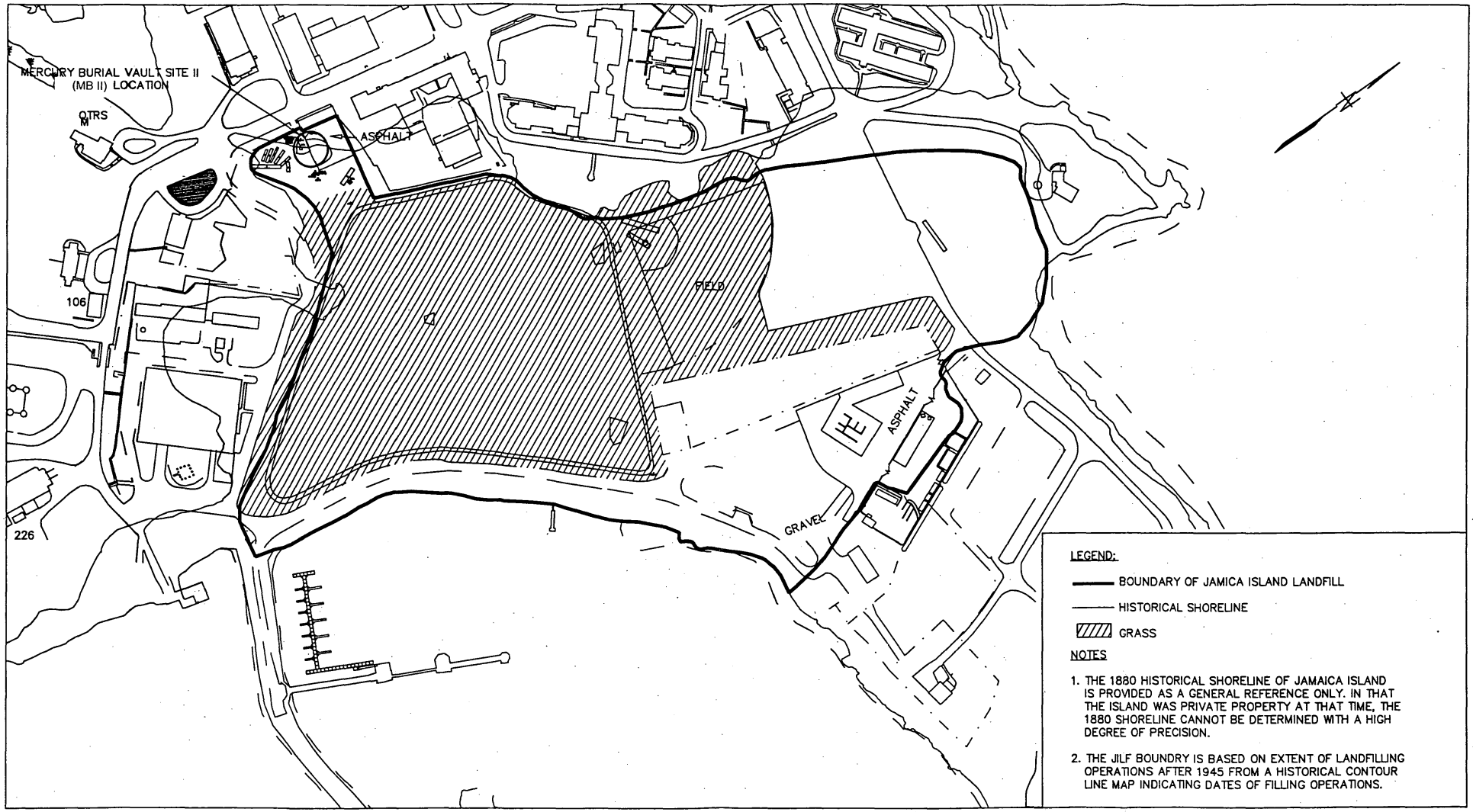
FOSTER WHEELER ENVIRONMENTAL CORPORATION



U.S. Navy RAC
Portsmouth Naval Shipyard
Kittery, Maine

Figure 2
Facility Layout Map

FOSTER WHEELER ENVIRONMENTAL CORPORATION

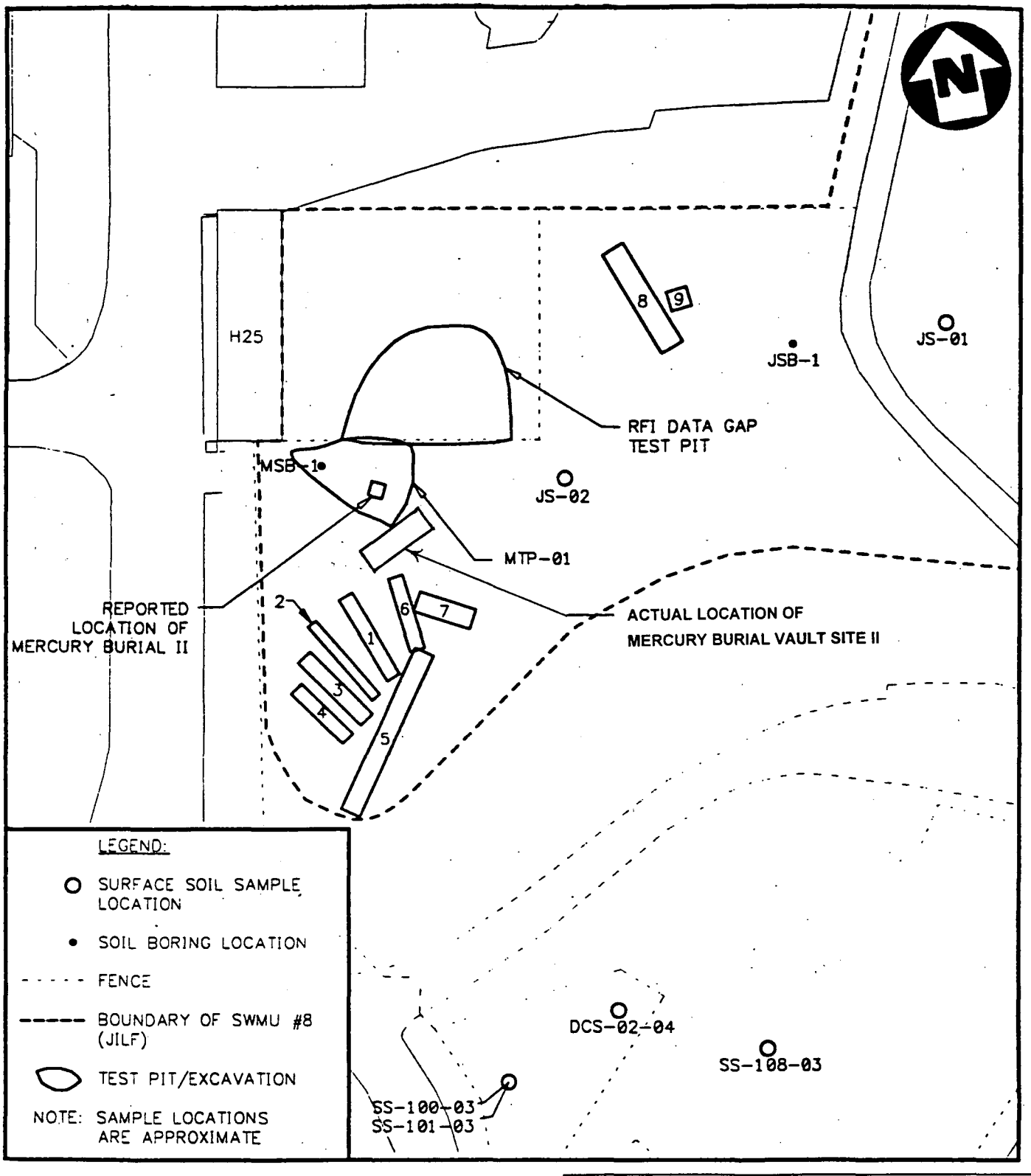


0 200 400
SCALE IN FEET

U.S. Navy RAC
Portsmouth Naval Shipyard
Kittery, Maine

Figure 3
Jamaica Island Landfill and
Mercury Burial Vault Site II Layout Map

FOSTER WHEELER ENVIRONMENTAL CORPORATION

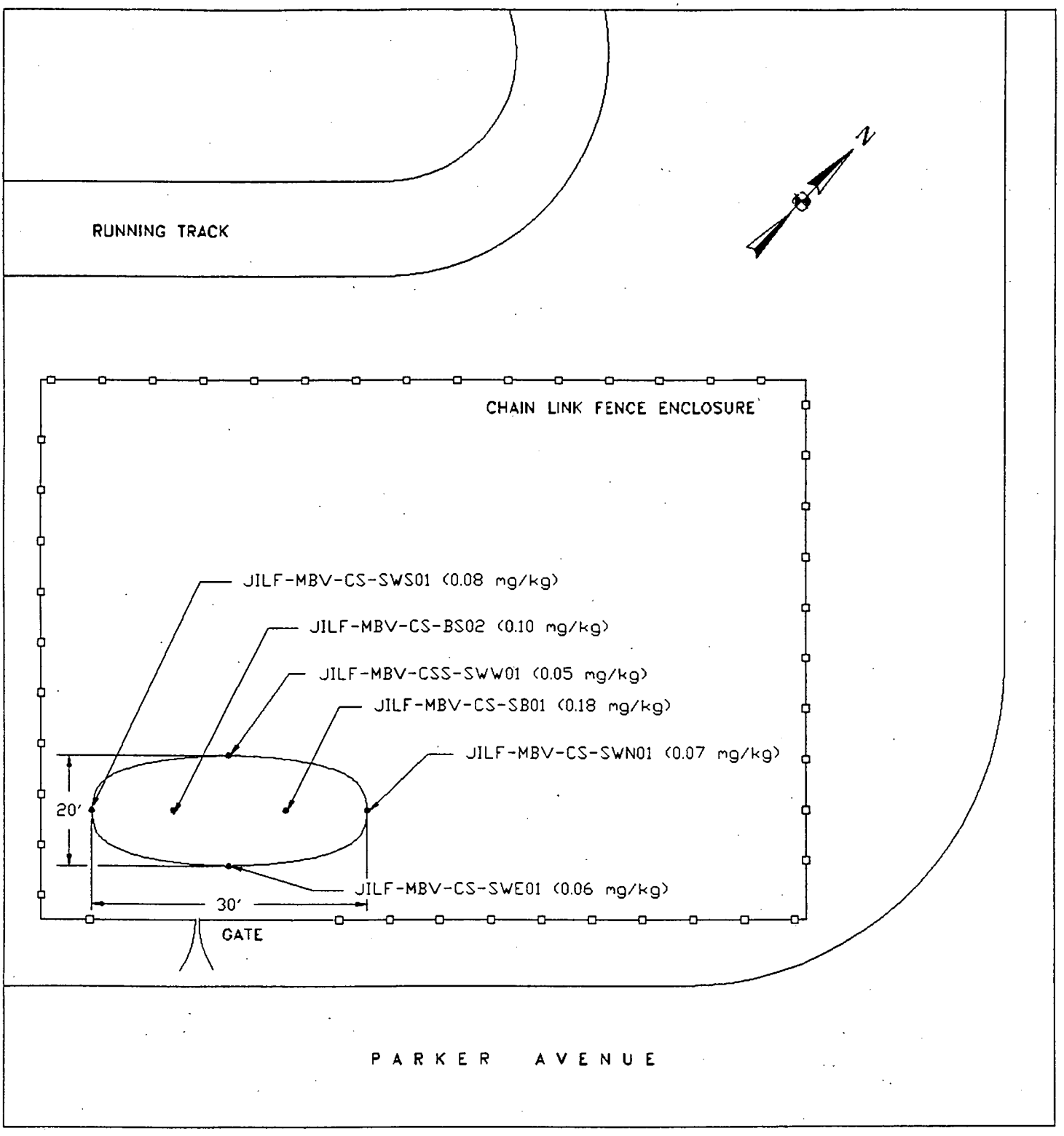


U.S. Navy RAC
Portsmouth Naval Shipyard
Kittery, Maine

Figure 4
Mercury Burial Vault Site II Location Map

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Halliburton NUS Corporation Figure 2-7



• Appropriate Location of Confirmation Samples

NOT TO SCALE

U.S. Navy RAC
Portsmouth Naval Shipyard
Kittery, Maine

Figure 5
Mercury Burial Vault Site II
Approximate Locations of Excavation and Confirmation Sample Points

FOSTER WHEELER ENVIRONMENTAL CORPORATION

TABLES

FINAL REMOVAL ACTION REPORT
REMEDIAL ACTION CONTRACT N62472-94-D-0398
DELIVERY ORDER NO. 0038
MERCURY BURIAL VAULT SITE II
PORTSMOUTH NAVAL SHIPYARD
KITTERY, MAINE

Table 1

Mercury Analytical Results

SAMPLE ID DATE COLLECTED TYPE LOCATION MATRIX UNITS COMMENTS	JILF-MBV-WC-CD01 7/20/00 Waste Classification concrete vaults #1 to #8 concrete debris mg/kg	JILF-MBV-CS-SB01 7/19/00 Bottom, Post-Ex Excavation Bottom soil mg/kg	JILF-MBV-CS-BS02 7/20/00 Bottom, Post-Ex Excavation Bottom soil mg/kg	JILF-MBV-CS-SWN01 7/19/00 Sidewall, Post-Ex Excavation Sidewall soil mg/kg	JILF-MBV-CS-SWS01 7/19/00 Sidewall, Post-Ex Excavation Sidewall soil mg/kg
Mercury, total	8.40	0.18	0.10	0.07	0.08

SAMPLE ID DATE COLLECTED TYPE LOCATION MATRIX UNITS COMMENTS	JILF-MBV-CS-SWE01 7/19/00 Sidewall, Post-Ex Excavation Sidewall soil mg/kg	JILF-MBV-CS-SWW01 7/19/00 Sidewall, Post-Ex Excavation Sidewall soil mg/kg	JILF-MBV-WC-SP01 7/19/00 Reuse as Backfill Soil Stockpile soil mg/kg	JILF-MBV- SCRAPEDOWN#1 7/27/00 Post-Excavation Under Containment Pad soil mg/kg	JILF-MBV- SCRAPEDOWN#2 7/27/00 Post-Excavation Under Containment Pad soil
Mercury, total	0.06	0.05	0.17	0.06	0.21

FINAL REMONAL ACTION REPORT
REMEDIAL ACTION CONTRACT N62472-94-D-0398
DELIVERY ORDER NO. 0038
MERCURY BURIAL VAULT SITE II
PORTSMOUTH NAVAL SHIPYARD
KITTERY, MAINE

Table 2

Summary of Disposal Manifests

Manifest Number	Date of Pickup	US DOT Description	Container	Total Quantity	Disposal Facility	Disposal Technology
Roll-Offs Containing Soil, Concrete, and Original Drums						
MA J 650228	7/31/00	RQ, Waste Environmentally Hazardous Substance, Solid N.O.S. (Mercury) 9, UN3077, PG III (D009)	1 CM	37,480 Pounds	Safety-Kleen Ltd.	Processed for Fuels/Treatment/Landfill
MA K006682	8/9/00	RQ, Waste Environmentally Hazardous Substance, Solid N.O.S. (Mercury) 9, UN3077, PG III (D009)	1 CM	38,760 Pounds	Safety-Kleen Ltd.	Processed for Fuels/Treatment/Landfill
MA K006683	8/7/00	RQ, Waste Environmentally Hazardous Substance, Solid N.O.S. (Mercury) 9, UN3077, PG III (D009)	1 CM	24,460 Pounds	Safety-Kleen Ltd.	Processed for Fuels/Treatment/Landfill
MA K006685	8/9/00	RQ, Waste Environmentally Hazardous Substance, Solid N.O.S. (Mercury) 9, UN3077, PG III (D009)	1 CM	32,800 Pounds	Safety-Kleen Ltd.	Processed for Fuels/Treatment/Landfill
MA K006686	8/7/00	RQ, Waste Environmentally Hazardous Substance, Solid N.O.S. (Mercury) 9, UN3077, PG III (D009)	1 CM	28,440 Pounds	Safety-Kleen Ltd.	Processed for Fuels/Treatment/Landfill
MA K006688	7/31/00	RQ, Waste Environmentally Hazardous Substance, Solid N.O.S. (Mercury) 9, UN3077, PG III (D009)	1 CM	44,520 Pounds	Safety-Kleen Ltd.	Processed for Fuels/Treatment/Landfill
MA K006689	8/9/00	RQ, Waste Environmentally Hazardous Substance, Solid N.O.S. (Mercury) 9, UN3077, PG III (D009)	1 CM	27,180 Pounds	Safety-Kleen Ltd.	Processed for Fuels/Treatment/Landfill
Drums Containing Liquid Waste						
Manifest Number	**Date of Pickup**	**US DOT Description**	**Container**	**Total Quantity**	**Disposal Facility**	**Disposal Technology**
MA J 650499	8/30/00	RQ, Waste Corrosive Liquid, Acidic, Inorganic, N.O.S. (Mercury, Silver) 8, UN3264, PG II (D002 D009 D011)	2 DF	842 Pounds	Stablex Canada, Inc.	Treatment/Secure Landfill
		RQ, Waste Corrosive Liquid, Acidic, Inorganic, N.O.S. (Mercury, Silver) 8, UN3264, PG II (D002 D009 D011)	1 DF	324 Pounds	Stablex Canada, Inc.	Treatment/Secure Landfill
		RQ, Waste Corrosive Liquid, Basic, Inorganic, N.O.S. (Mercury, Lead) 8, UN3266, PG II (D002 D009 D011)	5 DF	1,665 Pounds	Stablex Canada, Inc.	Treatment/Secure Landfill
MA J 650262	8/30/00	RQ, Hazardous Waste, Liquid, N.O.S. (Mercury, Silver) 9, NA3082, PG III (D008 D009 D010 D011)	1 DF	432 Pounds	E.I. DuPont Denemours and Company	Biological Treatment
MA J 650260	8/30/00	RQ, Hazardous Waste, Liquid, N.O.S. (Mercury, Silver) 9, NA3082, PG III (D008 D009 D010 D011)	4 DM	1,909 Pounds	See Below	See Below
				1,431 Pounds	Michigan Disposal Wastetreatment Plant	Secure Landfill
				478 Pounds	E.I. DuPont Denemours and Company	Biological Treatment
MA M 737509	3/16/01	RQ Waste Environmentally Hazardous Substances, Liquid, N.O.S., (Mercury), 9, UN3082, III, (D009)	1 DM	266 Pounds	No Disposal Information Yet	No Disposal Information Yet
Drums Containing Solid Waste						
Manifest Number	**Date of Pickup**	**US DOT Description**	**Container**	**Total Quantity**	**Disposal Facility**	**Disposal Technology**
MA J 650260	8/30/00	RQ, Hazardous Waste, Solid, N.O.S. (Mercury) 9, NA3077, PG III (D009 D006)	7 DM	1,310 Pounds	Safety-Kleen Ltd.	Treatment/Secure Landfill
MA M 737509	3/16/01	RQ Waste Environmentally Hazardous Substances, Solid, N.O.S., (Mercury), 9, UN3077, III, (D009)	1 DM	394 Pounds	No Disposal Information Yet	No Disposal Information Yet

APPENDIX A

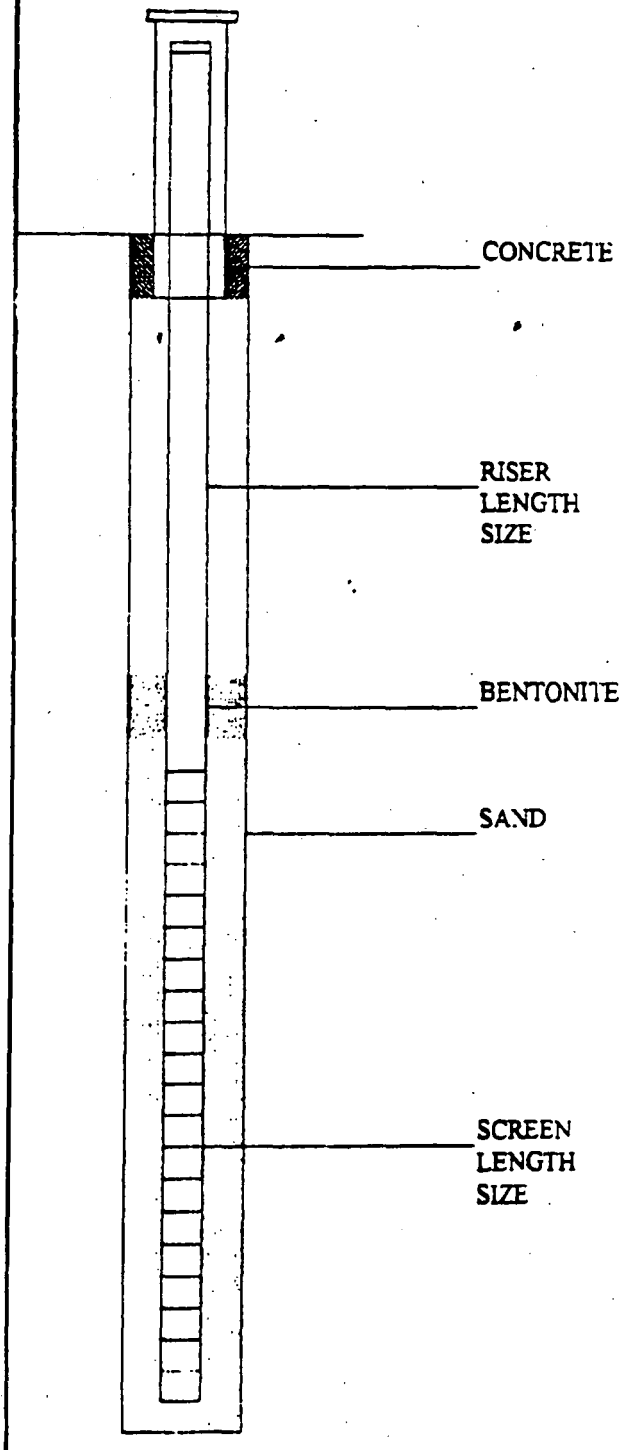
WELL DECOMMISSIONING LOGS

ENVIRONMENTAL DRILLING, INC.

WELL DECOMMISSIONING LOGS

SITE: Portsmouth Naval Shipyard - Kittery, ME
Contract # N62472-94D-0398
CLIENT: Foster Wheeler Environmental Inc

DATE OF DECOMMISSIONIN(7/17/00



WELL NO. MW-2

Decommissioning Information:

Size of well: 2"

Well Material: PVC

Depth of Well: 20 ft

Amount of Grout: 4 gal

Type of Grout: Cement/bentonite

Method of Decommissioning:

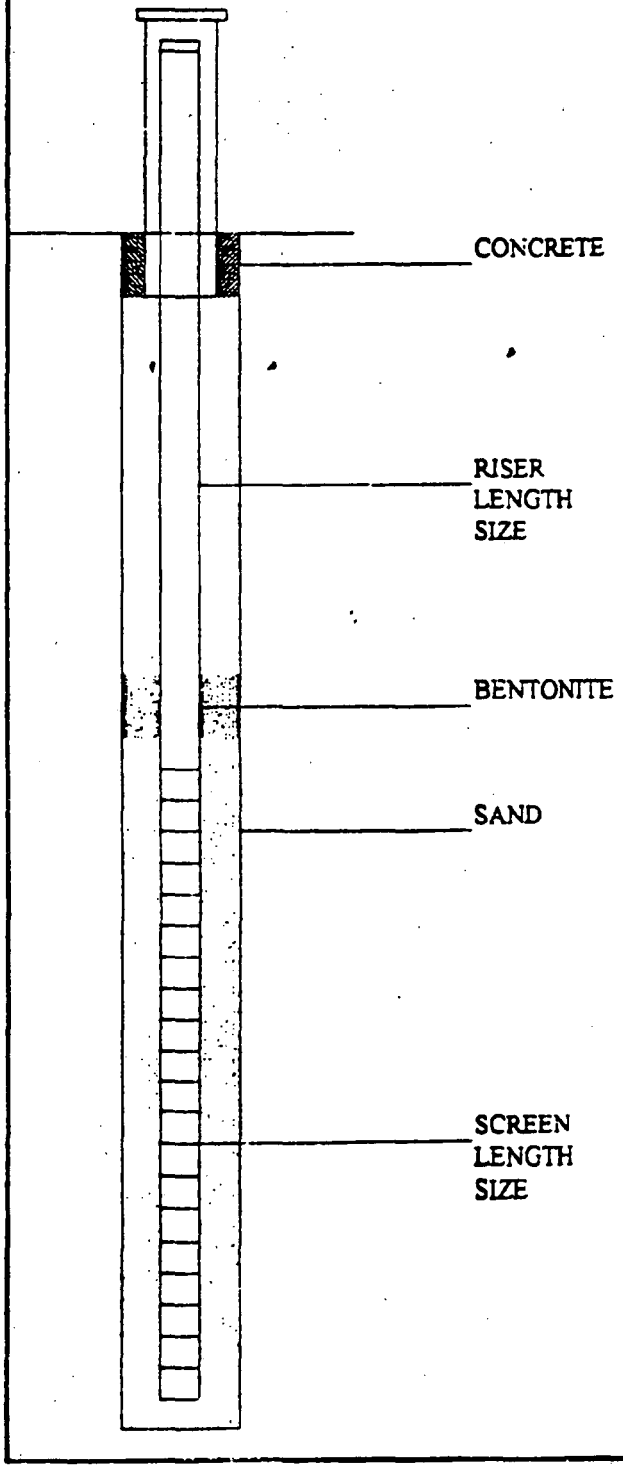
The well cover was removed and the well was sounded for depth. The grout was installed from the bottom to the ground surface.

ENVIRONMENTAL DRILLING, INC.

WELL DECOMMISSIONING LOGS

SITE: Portsmouth Naval Shipyard - Kittery, ME
Contract # N62472-94D-0398
CLIENT: Foster Wheeler Environmental Inc

DATE OF DECOMMISSIONIN(7/17/00



WELL NO. MW-3

Decommissioning Information:

Size of well: 2"

Well Material: PVC

Depth of Well: 21 ft

Amount of Grout: 4 gal

Type of Grout: Cement/bentonite

Method of Decommissioning:

The well cover was removed and the well was sounded for depth. The grout was installed from the bottom to the ground surface.

APPENDIX B

PHOTOGRAPHS

CASE

APPENDIX C

LABORATORY ANALYTICAL DATA

CHEMTECH 205 Campus Plaza 1 • Edison, NJ 08837 Phone: 732.225.4111 Fax: 732.225.4110

DATA PACKAGE FOR MERCURY

PROJECT NAME: PORTSMOUTH NSY
PROJECT # 1284.D038

FOSTER WHEELER
ONE OXFORD VALLEY, SUITE 200
2300 LINCOLN HIGHWAY EAST
LANGHORNE, PA 19047
215-702-4000

CHEMTECH PROJ#: L9392LP
ATTENTION: CARL TIPPMAN

Since 1967

CHEMTECH

CASE NARRATIVE

Foster Wheeler Environmental
Project Name: Portsmouth NSY
Project # 1284-D038
Chemtech Project # L9392LP

A. Number of Samples and Date of Receipt
6 Soil sample were delivered to the laboratory intact on 07/20/00.

B. Parameters
Test requested on the Chain of Custody was Mercury. This data package contains results for Mercury.

C. Analytical Techniques
The sample was analyzed for Mercury according to Method 245.1.

D. QA/ QC Samples
A Method Blank, Spike and Duplicate sample were digested and analyzed along with the samples.

Calibrations met requirements. Blank analyses did not indicate the presence of contamination. Interference Check Sample, Laboratory Control Sample recoveries were within QC limits. Spike Sample recovery met requirements except for Mercury. Duplicate recoveries and RPDs met QC requirements.

I certify that the data package is in compliance with the terms and conditions of the contract both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Signature Mildred V. Reyes Name Mildred V. Reyes

Date 8/14/00 Title QA/QC

CHEMTECH 205 Campus Plaza 1 • Edison, NJ 08837 Phone: 732.225.4111 Fax: 732.225.4110

COVER PAGE

Lab Name: Chemtech Consulting Group
Lab Code: CHEM Project No.: L9392LP

Client: FOSTER WHEELER ENVIRONMENTAL
Project Name: PORTSMOUTH NSY

Client Sample No.	Lab Sample ID
JILF-MBV-WC-SP01	29539
JILF-MBV-CS-SWS0101	29540
JILF-MBV-CS-SWE01	29541
JILF-MBV-CSSWN01	29542
JILF-MBV-CS-SB01	29543
JILF-MBV-CS-SWW01	29544

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designed, as verified by the following signature.

Signature: Mildred V. Reyes Name: MILDRED V.REYES

Date : 8/14/00 Title: QA/QC

Since 1967

DATA REPORTING QUALIFIERS - - INORGANIC

For reporting results, the following "Results Qualifiers" are used:

B - If the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).

U - If the analyte was analyzed for, but not detected.

E - The reported value is estimated because of the presence of interference.

M - Duplicate injection precision not met.

N - Spiked sample recovery not within control limits.

S - The reported value was determined by the Method of Standard Additions (MSA).

W - Post-digestion spike for Furnace AA analysis is out of control limits (85 - 115%), while sample absorbance is less than 50% of spike absorbance.

* - Duplicate analysis not within control limits.

+ - Correlation coefficient for the MSA is less than 0.995.

*** - Entering "S", "W", or "+" is mutually exclusive. No combination of these qualifiers can appear in the same field for an analyte.

M (Method) qualifier

"P" for ICP
"A" for Flame AA
"F" for Furnace AA
"PM" for ICP when Microwave Digestion is used
"AM" for flame AA when Microwave Digestion is used
"FM" for furnace AA when Microwave Digestion is used
"CV" for Manual Cold Vapor AA
"AV" for automated Cold Vapor AA
"CA" for Midi-Distillation Spectrophotometric
"AS" for Semi-Automated Spectrophotometric
"C" for Manual Spectrophotometric
"T" for Titrimetric
"NR" if the analyte is not required to be analyzed

METALS RESULTS

METALS
SAMPLE DATA

ANALYSIS REPORT
1

CLIENT SAMPLE #

INORGANIC ANALYSIS DATA SHEET

JILF-MBV-WC-SP01

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEMED Case No.: SAS No.: SDG No.: L9392

Matrix (soil/water): SOIL Lab Sample ID: 29539S

Level (low/med): LOW Date Received: 07/20/00

% Solids: 94.6

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	0.17		N	CV

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

ANALYSIS REPORT
1

CLIENT SAMPLE #

INORGANIC ANALYSIS DATA SHEET

JILF-MBV-CS-SWS0

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEMED Case No.: SAS No.: SDG No.: L9392

Matrix (soil/water): SOIL Lab Sample ID: 29540S

Level (low/med): LOW Date Received: 07/20/00

% Solids: 96.2

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	0.08	B	N	CV

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

ANALYSIS REPORT
1

CLIENT SAMPLE #

INORGANIC ANALYSIS DATA SHEET

JILF-MBV-CS-SWE0

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEMED Case No.: SAS No.: SDG No.: L9392

Matrix (soil/water): SOIL Lab Sample ID: 29541S

Level (low/med): LOW Date Received: 07/20/00

% Solids: 96.8

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	0.06	B	N	CV

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

ANALYSIS REPORT
1

CLIENT SAMPLE #

INORGANIC ANALYSIS DATA SHEET

JILF-MBV-CSSWN01

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEMED Case No.: SAS No.: SDG No.: L9392

Matrix (soil/water): SOIL Lab Sample ID: 29542S

Level (low/med): LOW Date Received: 07/20/00

% Solids: 94.4

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	0.07	B	N	CV

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

ANALYSIS REPORT
1

CLIENT SAMPLE #

INORGANIC ANALYSIS DATA SHEET

JILF-MBV-CS-SB01

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEMED Case No.: SAS No.: SDG No.: L9392

Matrix (soil/water): SOIL Lab Sample ID: 29543S

Level (low/med): LOW Date Received: 07/20/00

% Solids: 86.4

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	0.18		N	CV

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

ANALYSIS REPORT
1

CLIENT SAMPLE #

INORGANIC ANALYSIS DATA SHEET

JILF-MBV-CS-SWW0

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEMED Case No.: SAS No.: SDG No.: L9392

Matrix (soil/water): SOIL Lab Sample ID: 29544S

Level (low/med): LOW Date Received: 07/20/00

% Solids: 89.1

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	0.05	U	N	CV

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

METALS
CALIBRATIONS DATA

ANALYSIS REPORT

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: CHEMTECH CONSULTING GROUP Contract:

Lab Code: CHEMED Case No.: SAS No.: SDG No.: L9392

Initial Calibration Source: EPA-LV

Continuing Calibration Source: EPA-LV

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Mercury	4.1	3.40	82.9	5.0	4.47	89.4	4.27	85.4	CV

(1) Control limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

ANALYSIS REPORT

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: CHEMTECH CONSULTING GROUP Contract:

Lab Code: CHEMED Case No.: SAS No.: SDG No.: L9392

Initial Calibration Source: EPA-LV

Continuing Calibration Source: EPA-LV

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Mercury				5.0	4.41	88.2			CV

(1) Control limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

ANALYSIS REPORT

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: CHEMTECH CONSULTING GROUP Contract:

Lab Code: CHEMED Case No.: SAS No.: SDG No.: L9392

AA CRDL Standard Source: INOR-VEN

ICP CRDL Standard Source:

Concentration Units: ug/L

	CRDL Standard for AA			CRDL Standard for ICP				
					Initial		Final	
Analyte	True	Found	%R	True	Found	%R	Found	%R
Mercury	0.2	0.28	140.0					

ANALYSIS REPORT

3

BLANKS

Lab Name: CHEMTECH CONSULTING GROUP Contract:

Lab Code: CHEMED Case No.: SAS No.: SDG No.: L9392

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Mercury	0.1	U	0.1	U	0.1	U	0.1	U	0.050	U	CV

METALS
QC DATA

ANALYSIS REPORT

5A

SPIKE SAMPLE RECOVERY

CLIENT SAMPLE #

JILF-MBV-WC-SP01

Lab Name: CHEMTECH CONSULTING GROUP

Lab Code: CHEMED Case No.: SAS No.: SDG No.: L9392

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 94.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Mercury	75-125	0.5391		0.1712		0.53	69.4	N	CV

Comments:

ANALYSIS REPORT

6

DUPLICATES

CLIENT SAMPLE #

JILF-MBV-WC-SP01

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEMED Case No.: SAS No.: SDG No.: L9392

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 94.6 % Solids for Duplicate: 94.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Mercury	0.1	0.1712		0.1454		16.3		CV

ANALYSIS REPORT

7
LABORATORY CONTROL SAMPLE

Lab Name: CHEMTECH CONSULTING GROUP Contract:

Lab Code: CHEMED Case No.: SAS No.: SDG No.: L9392

Solid LCS Source: INOR.VEN.

Aqueous LCS Source:

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Mercury				12.3	11.2		7.8	16.9	91.1

ANALYSIS REPORT

8

STANDARD ADDITION RESULTS

Lab Name: CHEMTECH CONSULTING GROUP Contract:

Lab Code: CHEMED Case No.: SAS No.: SDG No.: L9392

Concentration Units: ug/L

EPA Sample No.	An	0 ADD ABS	1 ADD CON	1 ADD ABS	2 ADD CON	2 ADD ABS	3 ADD CON	3 ADD ABS	Final Conc.	r	C

METALS PREPARATION & INSTRUMENT DATA

ANALYSIS REPORT

10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: CHEMTECH CONSULTING GROUP Contract:

Lab Code: CHEMED Case No.: SAS No.: SDG No.: L9392

ICP ID Number: Date: 07/12/00

Flame AA ID Number: CV

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Mercury	253.70		0.2	0.1	CV

Comments:
CV: SPECTRO-PRODUCTS MERCURY ANALYZER

ANALYSIS REPORT

13
PREPARATION LOG

Lab Name: CHEMTECH CONSULTING GROUP Contract:

Lab Code: CHEMED Case No.: SAS No.: SDG No.: L9392

Method: CV

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
JILF-MBV-CS-SB01	07/21/00	0.20	100
JILF-MBV-CS-SWE0	07/21/00	0.20	100
JILF-MBV-CS-SWS0	07/21/00	0.20	100
JILF-MBV-CS-SWW0	07/21/00	0.21	100
JILF-MBV-CSSWN01	07/21/00	0.21	100
JILF-MBV-WC-SP01	07/21/00	0.20	100
JILF-MBV-WC-SP01D	07/21/00	0.21	100
JILF-MBV-WC-SP01S	07/21/00	0.20	100
LCSS	07/21/00	0.20	100
PBS	07/21/00	0.20	100

ANALYSIS REPORT

14

ANALYSIS RUN LOG

Lab Name: CHEMTECH CONSULTING GROUP Contract:

Lab Code: CHEMED Case No.: SAS No.: SDG No.: L9392

Instrument ID Number: CV Method: CV

Start date: 07/22/00 End date: 07/22/00

EPA Sample No.	D/F	Time	% R	1 HG
S0	1.00	1249		X
S0.2	1.00	1252		X
S0.5	1.00	1255		X
S1.0	1.00	1257		X
S5.0	1.00	1300		X
S10.0	1.00	1302		X
ICV	1.00	1305		X
ICB	1.00	1308		X
CCV	1.00	1310		X
CCB	1.00	1312		X
CRA	1.00	1315		X
PBS	1.00	1317		X
LCSS	5.00	1320		X
JILF-MBV-WC-SP01	1.00	1322		X
JILF-MBV-WC-SP01D	1.00	1325		X
JILF-MBV-WC-SP01S	1.00	1327		X
JILF-MBV-CS-SWS0	1.00	1329		X
JILF-MBV-CSSWN01	1.00	1335		X
JILF-MBV-CS-SB01	1.00	1337		X
JILF-MBV-CS-SWW0	1.00	1339		X
CCV	1.00	1342		X
CCB	1.00	1345		X
ZZZZZZ	1.00	1349		
JILF-MBV-CS-SWE0	1.00	1352		X
CCV	1.00	1354		X
CCB	1.00	1357		X

METALS
RAW DATA

Folder: 072200C Page
12:49:34 22 Jul 2000 Protocol: HGS CHEMTECH

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Standard: 1 Rep: 1 S0 Seq: 1 12:49:34 22 Jul 2000 HG

Hg .000 ppb 662
Ave. Int. = 662 S. D. = 0

*** Standard: 2 Rep: 1 S0.2 Seq: 2 12:52:23 22 Jul 2000 HG

Hg .200 ppb 4410
Ave. Int. = 4410 S. D. = 0

*** Standard: 3 Rep: 1 S0.5 Seq: 3 12:55:21 22 Jul 2000 HG

Hg .500 ppb 11234
Ave. Int. = 11234 S. D. = 0

*** Standard: 4 Rep: 1 S1.0 Seq: 4 12:57:49 22 Jul 2000 HG

Hg 1.00 ppb 16531
Ave. Int. = 16531 S. D. = 0

*** Standard: 5 Rep: 1 S5.0 Seq: 5 13:00:20 22 Jul 2000 HG

Hg 5.00 ppb 65696
Ave. Int. = 65696 S. D. = 0

*** Standard: 6 Rep: 1 S10.0 Seq: 6 13:02:58 22 Jul 2000 HG

Hg 10.0 ppb 156625
Ave. Int. = 156625 S. D. = 0

X
d

Protocol: HCS CHEMTECH

Rev: 3.001 Time: 13:03:23 22 Jul 2000

Folder: 072200C Seq: 7 Print: On

User: Batch: ID: Standard Cup: 1 11 Vol: 0.30 Lm

State: Idle Wait: Off Autosampler: On

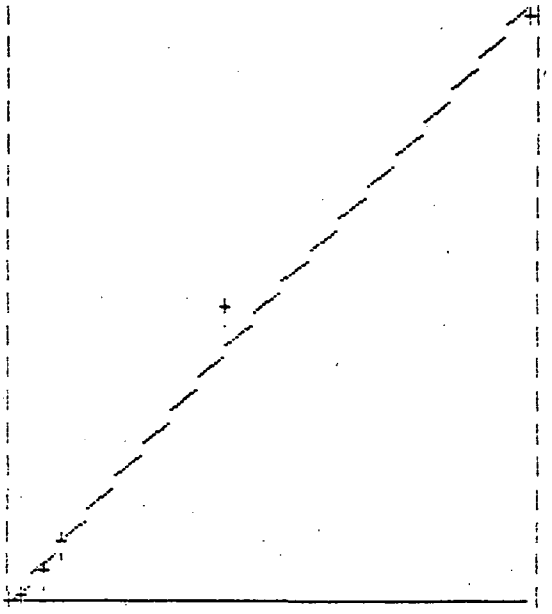
CALIBRATION: Line Calibration

Line: Hg

	Conc.	Calc.	Dev.	Accepted Linear	
S1	000	000	000	Quadratic	
S2	.200	.204	.004	WtLinear	
S3	.500	.731	.231		C
S4	1.00	1.00	.013	Accept	C
S5	5.00	4.30	-.697		n
S6	10.0	10.3	.265	StdAdd	c

A .0000000 r .996078

b 0.337258E-3 c -0.227516E-3



	Mean	%RSD	
S1	662	0	662
S2	4410	0	4410
S3	11634	0	11634
S4	16531	0	16531
S5	65696	0	65696
S6	156625	0	156625

Relative Absorbance

New calibration coefficients stored

Folder: 072200C Page
13:05:28 22 Jul 2000 Protocol: HGS CHEMTECH

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: ICV Seq: 10 13:05:28 22 Jul 2000 HG

			ICV		
Hg	3.40	ppb	.000	3.40	

*** Sample ID: ICB Seq: 11 13:08:02 22 Jul 2000 HG

			ICB		
Hg	-.004	ppb	.000	-.004	

0029

*** Sample ID: CCV1 Seq: 12 13:10:34 22 Jul 2000 HG

CCV

*** Sample ID: CCB1 Seq: 13 13:12:57 22 Jul 2000 HG
CCB
Hg .054 ppb .000 .054

*** Sample ID: CRA Seq: 14 13:15:18 22 Jul 2000 HG
CRA
Hg .281 ppb .000 .281

*** Sample ID: PBS Seq: 15 13:17:52 22 Jul 2000 HG
PBS
Hg .063 ppb .000 .063

*** Sample ID: LCSS Seq: 16 13:20:14 22 Jul 2000 HG
LCSS x5
Hg 4.49 ppb .000 4.49

*** Sample ID: 29539 Seq: 17 13:22:35 22 Jul 2000 HG
JILF-MBV-WC-SPO
Hg .324 ppb .000 .324

*** Sample ID: 29539D Seq: 18 13:25:00 22 Jul 2000 HG
JILF-MBV-WC-SPOD
Hg .289 ppb .000 .289

*** Sample ID: 29539S Seq: 19 13:27:25 22 Jul 2000 HG
JILF-MBV-WC-SPOS
Hg 1.02 ppb .000 1.02

*** Sample ID: 29540 Seq: 20 13:29:48 22 Jul 2000 HG
JILF-MBV-CS-SWS
Hg .150 ppb .000 .150

*** Sample ID: 29542 Seq: 21 13:35:03 22 Jul 2000 HG
JILF-MBV-CSSWNO
Hg .137 ppb .000 .137

Folder: 072200C Page
13:37:37 22 Jul 2000 Protocol: HGS CHEMTECH

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: 29543 Seq: 22 13:37:37 22 Jul 2000 HG
JILF-MBV-CS-SBO
Hg .306 ppb .000 .306

*** Sample ID: 29544 Seq: 23 13:39:56 22 Jul 2000 HG
JILF-MBV-CS-SWW
Hg .095 ppb .000 .095

*** Sample ID: CCV2 Seq: 24 13:42:17 22 Jul 2000 HG
CCV

*** Sample ID: CCB2 Seq: 25 13:45:09 22 Jul 2000 HG

CCB

Hg .097 ppb .000 .097

*** Sample ID: ~~29541 x10~~ Mb 7122400 Seq: 26 13:49:04 22 Jul 2000 HG

JILF-MBV-CS-SWE

Hg -.026 ppb .000 -.026

*** Sample ID: 29541 Seq: 27 13:52:12 22 Jul 2000 HG

JILF-MBV-CS-SWE

Hg .109 ppb .000 .109

*** Sample ID: CCV3 Seq: 28 13:54:44 22 Jul 2000 HG

CCV

Hg 4.41 ppb .000 4.41

*** Sample ID: CCB3 Seq: 29 13:57:26 22 Jul 2000 HG

CCB

Hg .088 ppb .000 .088

CHEMTECH 205 CAMPUS PLAZA 1, Edison ,New Jersey 08837, 732-225-4111

MERCURY PREPARATION WORKSHEET

METHOD # CVP

PROJECT #: 699

AUTOCLAVE/ BATH TEMP: 95 °C

DIGESTETION TIME: 30 MIN

BALANCE CHECK : (0.20 G) 0.20g

SUPERVISOR SIGNATURE:

DATE: 07 / 21 /2000

ANALYST SIGNATURE:

STANDARD NAME	MLS. USED	STD REF. # FROM LOG	CHEMICAL USED	LOT#
Hg WORKING STD.	1.0	S0725	5% $KMnO_4$	S0672
Hg ICV	1.0	S0729	5% $K_2S_2O_8$	S0673
SPIKE SOLUTION	1.0	S0725	1:2 HNO_3 + H_2SO_4	S0674
CONTROL STANDARD	5.0	S0728		

LAB SAMPLE NUMBER	CLIENT SAMPLE NUMBER	MATRIX WATER/SOIL/TCLP	SAMPLE WEIGHT(g)/VOL(mL)	COMMENTS
Blk 0.0 ppb	S0			
Std1 0.2 ppb	S0.2			
Std2 0.5 ppb	S0.5			
Std3 1.0 ppb	S1.0			
Std4 5.0 ppb	S5.0			
Std5 10.0 ppb	S10.0			
ICV	ICV			
ICB	ICB			
CCV	CCV			
CCB	CCB			
CRA	CRA			
PBS	PBS	SOIL		
LCSS	LCSS	SOIL		
29539	JILF-MBV-WC-SPO	SOIL	0.20g	L9392 CVP
D	JILF-MBV-WC-SPO D	SOIL	0.21g	
S	JILF-MBV-WC-SPO S	SOIL	0.20g	
29540	JILF-MBV-CS-SW3	SOIL	0.20g	
29541	JILF-MBV-CS-SW2	SOIL	0.10g	
29542	JILF-MBV-CS SW10	SOIL	0.11g	

REV. DATE 7/17/00 REV 1.0
HGPRE.DOC

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0032

CHEMTECH 205 CAMPUS PLAZA 1, Edison ,New Jersey 08837, 732-225-4111

MERCURY PREPARATION WORKSHEET

METHOD # 3 CLP (MD 7/21/00) PROJECT #: 699

AUTOCLAVE/ BATH TEMP: 95 °C DIGESTETION TIME: 30 MIN

BALANCE CHECK : (0.20 G) 0.10 g SUPERVISOR SIGNATURE: DM

DATE: 7 / 21 /2000 ANALYST SIGNATURE: [illegible]

STANDARD NAME	~~MLS~~ USED	~~STD REF. #~~ FROM LOG	CHEMICAL USED	LOT#
Hg WORKING STD.	1.0		5% $KMnO_4$	
Hg ICV	1.0		5% $K_2S_2O_8$	
SPIKE SOLUTION			1:2 HNO_3 + H_2SO_4	
~~CONTROL STANDARD~~	5.0			

[illegible] 7/21/00

LAB SAMPLE NUMBER	CLIENT SAMPLE NUMBER	MATRIX WATER/SOIL/TCLP	SAMPLE WEIGHT(g)/VOL(mL)	COMMENTS
29543	JTLF-MBV-CS-SB0	SOIL	0.20 g	L9342 CLP
29544	JTLF-MBV-CS-SW	SOIL	0.21 g	"

PSP 7/21/00

REV. DATE 7/17/00 REV 1.0
HGPRE.DOC

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0033

CHEMTECH 205 Campus Plaza I, Edison, New Jersey 08837 (732) 225-4111

INORGANIC
STANDARD PREPATATION LOG

NAME	NO.	DATE	INITIALS
SnCl2	50722	7/21/00	MB

FROM

100 g SnCl2 (X0011) (X0016) +100 ml Con HCl, F.V. 1000 ml DI H2O = 1000 ml SnCl2

NAME	NO.	DATE	INITIALS
Hg Std. Int.	50723	7/21/00	MB

FROM

1.0 ml X0002 + 2 ml Conc. HNO3 (X0015) F.V. 100 ml DI H2O = 10.0 ppm Hg

NAME	NO.	DATE	INITIALS
Hg control Int.	50724	7/21/00	MB

FROM

1.0 ml X0003 + 2 ml Conc. HNO3 (X0015) F.V. 100 ml DI H2O = 10.0 ppm Hg

NAME	NO.	DATE	INITIALS
Hg working std	50725	7/21/00	MB

FROM

1.0 ml 50723 + 2 ml Conc. HNO3 (X0015) F.V. 100 ml DI H2O = 100 ppb Hg

CHEMTECH 205 Campus Plaza I, Edison, New Jersey 08837 (732) 225-4111

INORGANIC
STANDARD PREPATATION LOG

NAME	NO.	DATE	INITIALS
Hg control working std	50726	07/21/00	MB

FROM

1.0 ml 50724 + 2 ml Conc. HNO3 (X0015) F.V. 100 ml DI H2O = 100 ppb Hg

NAME	NO.	DATE	INITIALS
Hg Std	50727	07/21/00	MB

FROM

0.2 ml, 0.5 ml, 1.0 ml, 5.0 ml, 10.0 ml } 50725 F.V. 100 ml DI H2O + reagents: 0.2 ppb Hg, 0.5 ppb Hg, 1.0 ppb Hg, 5.0 ppb Hg, 10.0 ppb Hg

NAME	NO.	DATE	INITIALS
Hg control std CCV	50728	07/21/00	MB

FROM

5.0 ml 50726 F.V. 100 ml DI H2O + reagents: 5.0 ppb Hg

NAME	NO.	DATE	INITIALS
Hg ICV	50729	07/21/00	MB

FROM

1.0 ml X0004 + 2 ml Conc. HNO3 (X0015) F.V. 100 ml DI H2O + reagents = 4.1 ppb Hg

0034

9893926

CHEMTECH 205 Campus Plaza I, Edison, New Jersey 08837

MERCURY ANALYSIS LOGBOOK

ANALYST SIGNATURE: SUPERVISOR REVIEW:

DATE	CASE NUMBER	BATCH NUMBER	START TIME	% ABSORBANCE OF STANDARD BLK	STD1	STD2	STD3	STD4	STD5
07/21/00	L113		17:08	243	3479	7324	14331	58135	29513
07/22/00	L113		9:29	647	2240	7388	15029	26499	13942
07/22/00	L9392 cup	6991	12:49	662	4410	11234	16531	65696	56625

0035

MERCURY_ANALYSIS2.XLS

REV 2/2000

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CHEMTECH 205 Campus Plaza I, Edison, New Jersey 08837

MERCURY ANALYSIS LOGBOOK

SUPERVISOR REVIEW:

END TIME	CORR. COEF.	SLOPE X	CONC. B	ANALYST
17:56	.998465			Checked
10:21	.998785			Checked
13:57	.996078			Checked

MERCURY_ANALYSIS.XLS

REV 2/2000

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L 9392L

Chemtech Consulting Group 07/20/00 15:15

(1) 9385L (6) 938
(2) 9327A (7) 939
(3) 9387A (192)
(4) 9363L
(5) 9390A

SAMPLES CHECKED OUT FOR % SOLIDS ANALYSIS BY PP
DATE 07/20/00 TIME 15:15 MATRIX SO BATCH NO. 105548

SAMPLE NUMBER	PROJ. NAME	SAMPLE ID	DATE SAMPLED	FRACTIONS OK	PREVIOUS A-BATCH NUMBER	ANALY TECH				
29384	L9376N	14306-02STOCKPI LECOMPOSITE	07/17/00	C	105527	PP 0	1.0			*
29386	L9377A	MW-58'-10'	07/17/00	C	105527	PP 1	1.0			*
29387	L9377A	MW-92'6"-3'	07/17/00	C	105527	PP 2	1.0			*
29388	L9377A	MW-44'-6'	07/17/00	C	105527	PP 3	1.0			*
29389	L9377A	MW-440'-42'	07/17/00	C	105527	PP 4	1.0			*
29390	L9377A	MW-17'-7'5"	07/17/00	C	105527	PP 5	1.0			*
29391	L9377A	MW-35'-7'	07/18/00	C	105527	PP 6	1.0			*
29392	L9377A	MW-3MS5'-7'	07/18/00	C	105527	PP 7	1.0			*
29393	L9377A	MW-3MSD5'-7'	07/18/00	C	105527	PP 8	1.0			*
29395	L9377A	MW-73'-4'5"	07/18/00	C	105527	PP 9	1.0			*
29396	L9377A	MW-63'-5'	07/18/00	C	105527	PP 11	1.0			*
29397	L9377A	MW-21'-3'	07/18/00	C	105527	PP 12	1.0			*
29398	L9377A	MW-83-5'	07/18/00	C	105527	PP 13	1.0			*
29399	L9377A	MW-102'-4'	07/18/00	C	105527	PP 14	1.0			*
29410	L9379N	B-1	07/18/00	C	105527	PP 15	1.0			*
29411	L9379N	B-2	07/18/00	C	105527	PP 16	1.0			*
29412	L9379N	B-3	07/18/00	C	105527	PP 17	1.0			*
29413	L9379N	B-4	07/18/00	C	105527	PP 18	1.0			*
29461	L9384N	AOC-5	07/19/00	C		19	1.03	13.43	11.32	* 83.0
29462	L9384N	AOC-5.8-73+25	07/19/00	C		20	1.03	10.55	9.43	* 88.2

0036

SAMPLES CHECKED OUT FOR % SOLIDS ANALYSIS BY PP

DATE 07/20/00 TIME 15:15 MATRIX SO BATCH NO. 105548

SAMPLE NUMBER	PROJ. NAME	SAMPLE ID	DATE SAMPLED	FRACTIONS OK	PREVIOUS A-BATCH NUMBER	ANALY TECH				
29463	L9384N	AOC-5.9-71+00	07/19/00	C		21	1.00	11.70	9.73	% 81.6
29464	L9384N	AOC-5.10-68+75	07/19/00	C		22	1.05	12.02	9.74	% ~~79.2~~
29465	L9384N	AOC-5.11-66+50	07/19/00	C		23	1.03	12.54	10.07	% ~~78.5~~
29466	L9384N	AOC6-90+88	07/19/00	C		24	1.06	14.69	12.44	% 87.2
29467	L9384N	AOC-5.7-75+50	07/18/00	C		25	1.04	13.71	11.36	% 81.6
29469	L9384N	AOC-75-75+50	07/18/00	C		26	1.06	13.30	10.81	% ~~79.7~~
29470	L9385L	SB06-2-8	07/14/00	C		27	1.02	11.59	9.44	% ~~79.7~~
29471	L9385L	SB07-10-14	07/15/00	C		28	1.06	9.51	7.17	% 72.3
29472	L9385L	SB08-2-10	07/16/00	C		29	1.06	10.60	7.32	% 65.6
29473	L9385L	SB09-10-20	07/16/00	C		30	1.03	10.35	8.75	% 82.8
29474	L9385L	SB10-20-30	07/18/00	C		31	1.03	12.74	11.54	% 89.8
29478	L9327A	SB-69	07/18/00	C		32	1.05	10.92	9.49	% 85.5
29479	L9327A	SB-72	07/18/00	C		33	1.03	14.89	12.44	% 82.3
29480	L9327A	SB-72MSD	07/18/00	C		~~34~~	~~1.08~~	~~13.36~~	~~12.26~~	~~% 91.0~~ IN
29481	L9327A	SB-72MS	07/18/00	C		35	1.06	13.94	12.32	% 87.4
29482	L9387A	SB-73	07/18/00	C		36	1.09	13.29	11.64	% 86.5
29483	L9387A	SB-74	07/18/00	C		37	1.05	13.81	11.74	% 83.8
29484	L9387A	SB-75	07/18/00	C		38	1.05	9.73	8.50	% 85.8
29485	L9387A	SB-76	07/18/00	C		39	1.05	10.51	9.70	% 91.4
29486	L9387A	DUPLICATE-6	07/18/00	C		40	1.04	11.12	9.62	% 85.1

SAMPLES CHECKED OUT FOR % SOLIDS ANALYSIS BY PP

DATE 07/20/00 TIME 15:15 MATRIX SO BATCH NO. 105548

SAMPLE NUMBER	PROJ. NAME	SAMPLE ID	DATE SAMPLED	FRACTIONS OK	PREVIOUS A-BATCH NUMBER	ANALY TECH				
29489	L9388N	S#1A	07/19/00	C		41	1.04	10.91	9.65	% 87.2
29491	L9388N	S#2A	07/19/00	C		42	1.06	10.14	8.60	% 85.2
29493	L9388N	S#3A	07/19/00	C		43	1.06	10.60	8.70	% 80.0
29495	L9388N	S#4A	07/19/00	C		44	1.08	9.84	8.39	% 83.5
29497	L9388N	S#5A	07/19/00	C		45	1.05	9.27	7.98	% 84.3
29502	L9363L	CDE-RS27-26	07/19/00	C		46	1.04	9.73	7.46	% 73.9
29503	L9363L	CDE-RS27-26MS	07/19/00	C		47	1.07	9.70	7.40	% 73.3
29504	L9363L	CDE-RS27-26MSD	07/19/00	C		48	~~0~~ NR		NR	% NR
29505	L9363L	CDE-RS27-28	07/19/00	C		49	1.08	9.91	8.03	% 78.7
29506	L9363L	CDE-RS27-30	07/19/00	C		50	1.01	10.96	9.94	% 89.7
29507	L9363L	CDE-RS27-32	07/19/00	C		51	1.07	10.41	8.50	% 79.6
29508	L9363L	CDE-RS27-33	07/19/00	C		52	1.03	12.85	11.58	% 89.3
29509	L9363L	CDE-RS27-34	07/19/00	C		53	1.02	11.10	9.39	% 83.0
29510	L9363L	CDE-RS27-35	07/19/00	C		54	1.04	12.23	10.59	% 86.0
29511	L9363L	CDE-RS27-36	07/19/00	C		55	1.03	12.80	11.54	% 85.3
29512	L9363L	CDE-RS27-37	07/19/00	C		56	1.03	11.03	9.65	% 89.3
29514	L9389N	SB-6(3-3.5)	07/19/00	C		57	1.03	10.70	9.60	% 86.2
29515	L9389N	SB-6(1-2)	07/19/00	C		58	1.08	10.35	9.70	% 93.0 ~~88.6~~
29516	L9389N	MW-2(1-2)	07/19/00	C		59	1.04	9.66	9.20	% 94.2 ~~93.0~~
29517	L9389N	MW-2(4-5)	07/19/00	C		60	1.06	9.67	7.20	% 77.2 ~~74.7~~

L9392L

SAMPLES CHECKED OUT FOR % SOLIDS ANALYSIS BY PP
DATE 07/20/00 TIME 15:15 MATRIX SO BATCH NO. 105548

SAMPLE NUMBER	PROJ. NAME	SAMPLE ID	DATE SAMPLED	FRACTIONS OK	PREVIOUS A-BATCH NUMBER	ANALY TECH				
29518	L9389N	MW-2(11-11.5)	07/19/00	C	61		1.03	9.72	5.93	56.4
29519	L9389N	MW-1(1-2)	07/19/00	C	62		1.04	10.28	9.72	93.9
29520	L9389N	MW-1(4-5)	07/19/00	C	63		1.06	9.72	8.94	91.0
29521	L9389N	SB-7(1-2)	07/19/00	C	64		1.05	10.56	9.84	92.4
29522	L9389N	SB-7(2-2.5)	07/19/00	C	65		1.05	10.29	9.11	87.2
29524	L9390A	X-1	07/18/00	C	66		1.07	11.44	11.36	99.4
29525	L9390A	X-1A	07/18/00	C	67		1.06	10.46	10.36	98.9
29526	L9390A	X-3	07/18/00	C	68		1.03	10.76	10.70	99.4
29528	L9387A	SB-80(6-8')	07/19/00	C	69		1.07	10.75	9.10	83.0
29529	L9387A	SB-81(0-2')	07/19/00	C	70		1.06	13.28	12.64	94.8
29530	L9387A	SB-82(2-4')	07/19/00	C	71		1.04	11.74	10.30	86.5
29531	L9387A	SB-83(4-6')	07/19/00	C	72		1.04	10.77	9.75	~~86.5~~ 89.5
29532	L9387A	SB-84(8-10')	07/19/00	C	73		1.05	9.51	8.35	86.3
29533	L9387A	SB-85(8-10')	07/19/00	C	74		1.06	15.19	14.28	93.6
29534	L9387A	SB-86(12-14')	07/19/00	C	75		1.06	14.74	13.15	88.4
29535	L9387A	SB-87(8-10')	07/19/00	C	76		1.03	10.79	9.60	87.9
29536	L9387A	SB-88(6-8')	07/19/00	C	77		1.03	9.99	9.10	98.1
29539	L9392L	JILF-MBV-WC-SP01	07/19/00	C	78		1.05	~~1.05~~ 12.25	11.65	94.
29540	L9392L	JILF-MBV-CS-SWS0101	07/19/00	C	79		1.02	12.30	11.87	96.2

L9392L

SAMPLES CHECKED OUT FOR % SOLIDS ANALYSIS BY PP

DATE 07/20/00 TIME 15:15 MATRIX SO BATCH NO. 105548

SAMPLE NUMBER	PROJ. NAME	SAMPLE ID	DATE SAMPLED	FRACTIONS OK	PREVIOUS A-BATCH NUMBER	ANALY TECH				
29541	L9392L	JILF-MBV-CS-SWE 01	07/19/00	C	80		1.05	9.57	9.30	* 96.8
29542	L9392L	JILF-MBV-CSSWN0 1	07/19/00	C	81		1.04	10.02	9.52	* 94.4
29543	L9392L	JILF-MBV-CS-SB0 1	07/19/00	C	82		1.06	9.52	8.37	* 86.4
29544	L9392L	JILF-MBY-CS-SWW 01	07/19/00	C	83		1.06	12.44	11.20	* 89.1
29558	L9394N	AOC-6COMPOSITE	07/19/00	C	84		1.06	11.35	9.77	* 84.6
29559	L9394N	AOC-6.1-103+00	07/19/00	C	85		1.05	12.75	10.62	* 83.5
29560	L9394N	AOC-6.2-100+75	07/19/00	C	86		1.04	9.58	8.40	* 86.2
29561	L9394N	AOC-6.3-98+50	07/20/00	C	87		1.05	11.29	9.54	* 82.0
29562	L9394N	AOC-6.4-96+25	07/20/00	C	88		1.02	9.47	8.33	* 86.3
29563	L9394N	AOC-6.3-98+50	07/20/00	C	89		1.05	9.94	8.42	* 82.9
29564	L9394N	AOC-5.12-64+25	07/20/00	C	90		1.02	10.60	8.96	* 84.9

REPORT OF CONFIRMATION OF ANALYTICAL BATCH NO. 105548
CONFIRMED BY HCP 07/21/00 TIME 14:50

SAMPLE NUMBER	CLIENT NUMBER	SAMPLE ID	ANALYSIS	RESULT	UNITS	DET. LIMIT	QUAL-IFIER	NEW STAT
29461	606	AOC-5	% SOLIDS	83.0	%			F
29462	606	AOC-5.8-73+25	% SOLIDS	88.2	%			F
29463	606	AOC-5.9-71+00	% SOLIDS	81.6	%			F
29464	606	AOC-5.10-68+75	% SOLIDS	79.2	%			F
29465	606	AOC-5.11-66+50	% SOLIDS	78.5	%			F
29466	606	AOC6-90+88	% SOLIDS	87.2	%			F
29467	606	AOC-5.7-75+50	% SOLIDS	81.6	%			F
29469	606	AOC-75-75+50	% SOLIDS	79.7	%			F
29470	1752	SB06-2-8	% SOLIDS	79.7	%			F
29471	1752	SB07-10-14	% SOLIDS	72.3	%			F
29472	1752	SB08-2-10	% SOLIDS	65.6	%			F
29473	1752	SB09-10-20	% SOLIDS	82.8	%			F
29474	1752	SB10-20-30	% SOLIDS	89.8	%			F
29478	1709	SB-69	% SOLIDS	85.5	%			F
29479	1709	SB-72	% SOLIDS	82.3	%			F
29480	1709	SB-72MSD	% SOLIDS	NR	%			F
29481	1709	SB-72MS	% SOLIDS	87.4	%			F
29482	1709	SB-73	% SOLIDS	86.5	%			F
29483	1709	SB-74	% SOLIDS	83.8	%			F
29484	1709	SB-75	% SOLIDS	85.8	%			F
29485	1709	SB-76	% SOLIDS	91.4	%			F
29486	1709	DUPLICATE-6	% SOLIDS	85.1	%			F
29489	1027	S#1A	% SOLIDS	87.2	%			F
29491	1027	S#2A	% SOLIDS	85.2	%		0	F
29493	1027	S#3A	% SOLIDS	80.0	%			F
29495	1027	S#4A	% SOLIDS	83.5	%			F
29497	1027	S#5A	% SOLIDS	84.3	%			F
29502	933	CDE-RS27-26	% SOLIDS	73.9	%			F
29503	933	CDE-RS27-26MS	% SOLIDS	73.3	%			F
29504	933	CDE-RS27-26MSD	% SOLIDS	NR	%			F
29505	933	CDE-RS27-28	% SOLIDS	78.7	%			F
29506	933	CDE-RS27-30	% SOLIDS	89.7	%			F
29507	933	CDE-RS27-32	% SOLIDS	79.6	%			F
29508	933	CDE-RS27-33	% SOLIDS	89.3	%			F
29509	933	CDE-RS27-34	% SOLIDS	83.0	%		0	F
29510	933	CDE-RS27-35	% SOLIDS	83.0	%			F
29511	933	CDE-RS27-36	% SOLIDS	85.3	%			F
29512	933	CDE-RS27-37	% SOLIDS	89.3	%			F
29514	933	SB-6(3-3.5)	% SOLIDS	86.2	%			F
29515	933	SB-6(1-2)	% SOLIDS	93.0	%			F
29516	933	MW-2(1-2)	% SOLIDS	94.7	%			F
29517	933	MW-2(4-5)	% SOLIDS	77.1	%			F
29518	933	MW-2(11-11.5)	% SOLIDS	56.4	%			F
29519	933	MW-1(1-2)	% SOLIDS	93.9	%			F

REPORT OF CONFIRMATION OF ANALYTICAL BATCH NO. 105548
CONFIRMED BY HCP 07/21/00 TIME 14:50

SAMPLE NUMBER	CLIENT NUMBER	SAMPLE ID	ANALYSIS	RESULT	UNITS	DET. LIMIT	QUAL-IFIER	NEW STAT
29520	933	MW-1(4-5)	% SOLIDS	91.0	%			F
29521	933	SB-7(1-2)	% SOLIDS	92.4	%			F
29522	933	SB-7(2-2.5)	% SOLIDS	87.2	%			F
29524	1931	X-1	% SOLIDS	99.4	%			F
29525	1931	X-1A	% SOLIDS	98.9	%			F
29526	1931	X-3	% SOLIDS	99.4	%			F
29528	1709	SB-80(6-8')	% SOLIDS	83.0	%		8	F
29529	1709	SB-81(0-2')	% SOLIDS	94.8	%		5	F
29530	1709	SB-82(2-4')	% SOLIDS	86.5	%	89.5		F
29531	1709	SB-83(4-6')	% SOLIDS	89.5	%			F
29532	1709	SB-84(8-10')	% SOLIDS	86.3	%			F
29533	1709	SB-85(8-10')	% SOLIDS	93.6	%			F
29534	1709	SB-86(12-14')	% SOLIDS	88.4	%			F
29535	1709	SB-87(8-10')	% SOLIDS	87.8	%			F
29536	1709	SB-88(6-8')	% SOLIDS	96.1	%			F
29539	1332	JILF-MBV-WC-SP01	% SOLIDS	94.6	%			F
29540	1332	JILF-MBV-CS-SWS0101	% SOLIDS	96.2	%			F
29541	1332	JILF-MBV-CS-SWE01	% SOLIDS	96.8	%			F
29542	1332	JILF-MBV-CSSWN01	% SOLIDS	94.4	%			F
29543	1332	JILF-MBV-CS-SB01	% SOLIDS	86.4	%			F
29544	1332	JILF-MBV-CS-SWW01	% SOLIDS	89.1	%			F
29558	606	AOC-6COMPOSITE	% SOLIDS	84.6	%			F
29559	606	AOC-6.1-103+00	% SOLIDS	83.5	%			F
29560	606	AOC-6.2-100+75	% SOLIDS	86.2	%			F
29561	606	AOC-6.3-98+50	% SOLIDS	82.9	%			F
29562	606	AOC-6.4-96+25	% SOLIDS	86.5	%			F
29563	606	AOC-6.3-98+50	% SOLIDS	82.9	%			F
29564	606	AOC-5.12-64+25	% SOLIDS	82.9	%			F

CHEMTECH CONSULTING GROUP

MISCELLANEOUS DATA

CHEMTECH 205 CAMPUS PLAZA I. RARITAN CENTER EDISON NEW JERSEY 08837

NEW JERSEY LAB ID#: 12013 ; NEW YORK LAB ID#: 11376

METALS CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: L9392 CLP MATRIX: soil

METHOD: CLP

		NA	NO	YES
1.	Calibration Summary meet criteria.			
2.	ICP Interference Check Sample Results Summary Submitted			✓
	(if applicable)/Meet criteriaBlank Contamination			✓ (02)
3.	Serial Dilution Summary Submitted (if applicable)/meet criteria	NA		✓ 02
4.	Laboratory Control Sample Summary Submitted (if applicable)			✓
5.	Blank Contamination		✓	

If YES, list compounds and concentrations in each blank:

2.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside of the acceptance range: Hg = 69.4%		✓	
3.	Sample Duplicate Analysis Meet QC Criteria: If not met, list those compounds and their % differences which fall outside of the acceptance range:			✓
4.	Extraction Holding Time Met (if not met, list number of days exceeded for each sample:			✓
4.	Analysis Holding Time Met If not met, list number of days exceeded for each sample:			✓

ADDITIONAL COMMENTS:

Deb Rogers 7/24/00

~~Analyst~~ peer review Date

QA REVIEW Date

SHIPPING AND RECEIVING DOCUMENTATION

Please check one:

CHEMTECH
CHAIN OF CUSTODY RECORD

☐ 110 Route 4
Englewood, NJ 07631
(201) 567-6868
Fax (201) 567-1333

☒ 205 Campus Plaza 1
Edison, NJ 08837
(732) 225-4111
Fax (732) 225-4110

CHEMTECH JOB NO.: L9392 LP

CHEMTECH QUOTE NO.:

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: FOSTER WHEELER ENVIR. CORP

ADDRESS: ONE OXFORD VALLEY SUITE 200

CITY: LANGHORNE STATE: PA ZIP: 19047

ATTENTION: CARL TIPPMAN

PHONE: 215-702-4000 FAX: 215-702-4045

PROJECT INFORMATION

PROJECT NAME: PORTSMOUTH NSY

PROJECT NO.: 1264-D038

PROJECT MANAGER: CARL TIPPMAN

LOCATION: PORTSMOUTH NSY

PHONE: FAX:

BILLING INFORMATION

BILL TO: FOSTER WHEELER PO #027959

ADDRESS: SAME

CITY: STATE: ZIP:

ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX: ~~48 hrs~~ DAYS *

HARD COPY: STANDARD DAYS *

EDD: DAYS *

* TO BE APPROVED BY CHEMTECH

** NORMAL TURNAROUND TIME - 14 DAYS

DATA DELIVERABLE INFORMATION

☐ RESULTS ONLY ☒ USEPA CLP

☐ RESULTS + QC ☐ NYS ASP "B"

☐ NJ REDUCED ☐ NYS ASP "A"

☐ NJ CLP ☐ EDD

☐ EDD FORMAT:

ANALYSIS

1 TCLP Hg ~~48 hr~~ 4 day TAT
2
3
4 TCLP-FULL
5 RUSH
6
7
8
9

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
								E			E						Specify Preservatives A – HCl B – HNO_3 C – H_2SO_4 D – NaOH E – ICE F – Other
1. 29339	JILF-MBV-WC-SP01	SOIL	X	X	7-19-00	1045	4	X			▲						
2. 40	JILF-MBV-CS-SLUWS01	↓		X	7-19-00	1115	1	X									
3. 41	JILF-MBV-CS-SLUWE01			X	7-19-00	1110	1	X									
4. 42	JILF-MBV-CS-SLUWN01			X	7-19-00	1130	1	X									
5. 43	JILF-MBV-CS-SB01			X	7-19-00	1100	1	X									
6. 44	JILF-MBV-CS-SLUWO01			X	7-19-00	1125	1	X									
7.																	
8.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. C. Tippman	7-19-00 1400	1. DHL
RELINQUISHED BY: 2. DHL	DATE/TIME:	RECEIVED BY: 2.
RELINQUISHED BY: 3.	DATE/TIME: 7-19-00 1460 9:45	RECEIVED FOR LAB BY: 3.

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non-Compliant ☐ Temp. of Cooler 4.0°C

Comments: ▲ HOLD FULL TCLP ANALYSIS UNTIL DIRECTED BY FW TO RUN (VOC GRAB)

Page 1 of 1 Shipment Complete: Yes ____ No ____

Ver. 6/2000 7-20-00 WHITE – CHEMTECH COPY FOR RETURN TO CLIENT YELLOW – CHEMTECH COPY PINK – SAMPLER COPY

DHL WORLDWIDE EXPRESS

Shipment Airwaybill

1-800-CALL-DHL (Non negotiable) in USA only

WEB ADDRESS: http://www.dhl.com

CNG

Quote this shipment number in an inquiry

804 2526 332

ORIGIN | DESTINATION

CDD

1 From (Shipper)

Account no.: 701763594

Shipper's reference:

Company name: FOSTER WHEELER ENVIRN CORP

Shipper's name: CRISTOBLON

Address: BLDG 278
PORTSMOUTH NAVAL SHIPYARD
KITTERY ME

Zip code (required): [illegible]

Phone/Fax/E mail: (207)439-9701

2 To (Recipient)

Company name: CHEMTECH

Attention: SAMPLE RECEIPT

Delivery address: 205 CAMPUS PLAZA
EDISON NJ 08837

Zip/Postcode (required): 08837

Phone/Fax/E mail: 732-225-4111

5 Shipper's authorization and signature

Signature (required):

Date: 7,19,00

3 Shipment details

Domestic Services
- [X] USA OVERNIGHT

International Services
- [ ] DHL DOCUMENT EXPRESS
- [ ] WORLDWIDE PRIORITY EXPRESS
- [ ] WORLDFREIGHT

WorldMail Services: [ ] 1st class [ ] Express [ ] 2nd class [ ] Other

Special Services
- [ ] SATURDAY DELIVERY
- [ ] POD
- [ ] OTHER

Payment Options not all options available to all countries
- [X] Shipper's account
- [ ] Recipient
- [ ] Third party

Acct. No.: [redacted]

Full description of contents: ENVIRONMENTAL SAMPLES

International non document shipments only
Attach original and four copies of a Commercial Invoice

Declared value for customs (in US $):

Export license No./Symbol (if applicable):

Harmonized Sched. B No. (if applicable):

Type of export (If left blank, Permanent is assumed): [ ] Permanent [ ] Temporary [ ] Repair/Return

Shipper's EIN/SSN:

These commodities, technology or software were exported from the United States in accordance with the export administration regulations. Diversion contrary to U.S. law prohibited.

Destination duties/taxes (If left blank recipient pays duties/taxes): [ ] Recipient [ ] Shipper [ ] Other

4 Pcs/Weight/Size

No. of pieces: 1

Weight (if DHL Express Document packaging is used, enter XD): 20 lb

Dimensions in inches: ___ x ___ x ___ / ___ x ___ x ___ / ___ x ___ x ___

Pieces length width height

DIMENSIONAL/CHARGED WEIGHT: lb

CODES	CHARGES
	Services
	Special services
	Insurance
	Drop Box/Exp. Center
	TOTAL

TRANSPORT COLLECT STICKER No.

PICKED UP BY: AJ

Time: 7/19

Date:

DHL AIRWAYS, INC. • 333 TWIN DOLPHIN DRIVE, REDWOOD CITY, CA 94065

Recipient's Copy

0047

CHEMTECH

Campus Plaza 1
Edison, NJ 08837
Phone: (732) 225-4111
Fax: (732) 225-4110

RECORD OF COMMUNICATION
VERBAL / TELEPHONE COMMUNICATION LOG

Date: 8/14/00 Client: Foster Wheeler

Chemtech Project No: L9392 Chain of Custody No: 36676

Chemtech Contact: Robin Dean Client Contact: Chris Jablon

Project Reference: Portsmouth NSY

Call Initiated By: RD Chemtech _____ Client

In reference to the following: Hg Contingency

Question / Issues

Resolution Release project No Further Required for full TCLP or RCRA.

Signature: [signature] Date: 8/14/00

Since 1967

CHEMTECH 205 Campus Plaza 1 • Edison, NJ 08837 Phone: 732.225.4111 Fax: 732.225.4110

DATA PACKAGE FOR MERCURY

PROJECT NAME: PORTSMOUTH NAVY SHOP YARD
PROJECT # 1284.D038

FOSTER WHEELER
ONE OXFORD VALLEY, SUITE 200
2300 LINCOLN HIGHWAY EAST
LANGHORNE, PA 19047
215-702-4020

CHEMTECH PROJ#: L9408LP
ATTENTION: CARL TIPPMAN

Since 1967

CHEMTECH

CASE NARRATIVE

Foster Wheeler Environmental
Project Name: Portsmouth NSY
Project # 1284-D038
Chemtech Project # L9408LP

A. Number of Samples and Date of Receipt
2 Soil sample were delivered to the laboratory intact on 07/21/00.

B. Parameters
Test requested on the Chain of Custody was Mercury. This data package contains results for Mercury.

C. Analytical Techniques
The sample was analyzed for Mercury according to Method 245.1.

D. QA/ QC Samples
A Method Blank, Spike and Duplicate sample were digested and analyzed along with the samples.

Calibrations met requirements. Blank analyses did not indicate the presence of contamination. Interference Check Sample, Laboratory Control Sample recoveries were within QC limits. Spike Sample recovery met requirements. Duplicate recoveries and RPDs met QC requirements.

I certify that the data package is in compliance with the terms and conditions of the contract both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Signature Mildred V. Reyes Name Mildred V. Reyes

Date 8/14/00 Title QA/QC

CHEMTECH 205 Campus Plaza 1 • Edison, NJ 08837 Phone: 732.225.4111 Fax: 732.225.4110

COVER PAGE

Lab Name: Chemtech Consulting Group
Lab Code: CHEM Project No.: L9408LP

Client: FOSTER WHEELER ENVIRONMENTAL
Project Name: PORTSMOUTH NAVY

Client Sample No.	Lab Sample ID
JILF-MBV-WC-CD01	29664
JILF-MBV-CS-BS02	29665

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designed, as verified by the following signature.

Signature: Mildred V. Reyes Name: MILDRED V.REYES

Date : 8/14/00 Title: QA/QC

Since 1967

DATA REPORTING QUALIFIERS - - INORGANIC

For reporting results, the following "Results Qualifiers" are used:

B - If the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).

U - If the analyte was analyzed for, but not detected.

E - The reported value is estimated because of the presence of interference.

M - Duplicate injection precision not met.

N - Spiked sample recovery not within control limits.

S - The reported value was determined by the Method of Standard Additions (MSA).

W - Post-digestion spike for Furnace AA analysis is out of control limits (85 - 115%), while sample absorbance is less than 50% of spike absorbance.

* - Duplicate analysis not within control limits.

+ - Correlation coefficient for the MSA is less than 0.995.

*** - Entering "S", "W", or "+" is mutually exclusive. No combination of these qualifiers can appear in the same field for an analyte.

M (Method) qualifier

"P" for ICP
"A" for Flame AA
"F" for Furnace AA
"PM" for ICP when Microwave Digestion is used
"AM" for flame AA when Microwave Digestion is used
"FM" for furnace AA when Microwave Digestion is used
"CV" for Manual Cold Vapor AA
"AV" for automated Cold Vapor AA
"CA" for Midi-Distillation Spectrophotometric
"AS" for Semi-Automated Spectrophotometric
"C" for Manual Spectrophotometric
"T" for Titrimetric
"NR" if the analyte is not required to be analyzed

METALS RESULTS

METALS
SAMPLE DATA

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

JILF-MBV-WC-CD01

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEMED Case No.: SAS No.: SDG No.: L9408

Matrix (soil/water): SOIL Lab Sample ID: 29664S

Level (low/med): LOW Date Received: 07/21/00

% Solids: 94.6

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	8.4			CV

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

JILF-MBV-CS-BS02

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEMED Case No.: SAS No.: SDG No.: L9408

Matrix (soil/water): SOIL Lab Sample ID: 29665S

Level (low/med): LOW Date Received: 07/21/00

% Solids: 95.1

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	0.10	B		CV

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

METALS
CALIBRATIONS DATA

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: CHEMTECH CONSULTING GROUP Contract:

Lab Code: CHEMED Case No.: SAS No.: SDG No.: L9408

Initial Calibration Source: EPA-LV

Continuing Calibration Source: EPA-LV

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Mercury	4.1	3.64	88.8	5.0	4.36	87.2	4.95	99.0	CV

(1) Control limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: CHEMTECH CONSULTING GROUP Contract:

Lab Code: CHEMED Case No.: SAS No.: SDG No.: L9408

Initial Calibration Source: EPA-LV

Continuing Calibration Source: EPA-LV

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Mercury				5.0	4.59	91.8			CV

(1) Control limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: CHEMTECH CONSULTING GROUP Contract:

Lab Code: CHEMED Case No.: SAS No.: SDG No.: L9408

AA CRDL Standard Source: INOR-VEN

ICP CRDL Standard Source:

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	True	Initial Found	%R	Final Found	%R
Mercury	0.2	0.10	50.0					

U.S. EPA - CLP

3

BLANKS

Lab Name: CHEMTECH CONSULTING GROUP Contract:

Lab Code: CHEMED Case No.: SAS No.: SDG No.: L9408

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Mercury	0.1	U	0.1	U	0.1	U	-0.1	B	0.050	U	CV

METALS
QC DATA

U.S. EPA - CLP

5A

SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

JILF-MBV-CS-BS02S

Lab Name: CHEMTECH CONSULTING GROUP

Lab Code: CHEMED Case No.: SAS No.: SDG No.: L9408

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 95.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Mercury	75-125	0.6151		0.1041	B	0.53	96.4		CV

Comments:

U.S. EPA - CLP

6

DUPLICATES

EPA SAMPLE NO.

JILF-MBV-CS-BS02D

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEMED Case No.: SAS No.: SDG No.: L9408

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 95.1 % Solids for Duplicate: 95.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Mercury		0.1041	B	0.0783	B	28.3		CV

7

LABORATORY CONTROL SAMPLE

Lab Name: CHEMTECH CONSULTING GROUP Contract:

Lab Code: CHEMED Case No.: SAS No.: SDG No.: L9408

Solid LCS Source: INOR.VEN.

Aqueous LCS Source:

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Mercury				12.3	11.0		7.8	16.9	89.4

8
STANDARD ADDITION RESULTS

Lab Name: CHEMTECH CONSULTING GROUP Contract:

Lab Code: CHEMED Case No.: SAS No.: SDG No.: L9408

Concentration Units: ug/L

EPA Sample No.	An	0 ADD ABS	1 ADD CON	1 ADD ABS	2 ADD CON	2 ADD ABS	3 ADD CON	3 ADD ABS	Final Conc.	r

METALS PREPARATION & INSTRUMENT DATA

U.S. EPA - CLP

10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: CHEMTECH CONSULTING GROUP Contract:

Lab Code: CHEMED Case No.: SAS No.: SDG No.: L9408

ICP ID Number: Date: 07/12/00

Flame AA ID Number: CV

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Mercury	253.70		0.2	0.1	CV

Comments:
CV: SPECTRO-PRODUCTS MERCURY ANALYZER

U.S. EPA - CLP

13
PREPARATION LOG

Lab Name: CHEMTECH CONSULTING GROUP Contract:

Lab Code: CHEMED Case No.: SAS No.: SDG No.: L9408

Method: CV

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
JILF-MBV-CS-BS02	07/24/00	0.20	100
JILF-MBV-CS-BS02D	07/24/00	0.20	100
JILF-MBV-CS-BS02S	07/24/00	0.20	100
JILF-MBV-WC-CD01	07/24/00	0.21	100
LCSS	07/24/00	0.20	100
PBS	07/24/00	0.20	100

U.S. EPA - CLP

14

ANALYSIS RUN LOG

Lab Name: CHEMTECH CONSULTING GROUP Contract:

Lab Code: CHEMED Case No.: SAS No.: SDG No.: L9408

Instrument ID Number: CV Method: CV

Start date: 07/25/00 End date: 07/25/00

EPA Sample No.	D/F	Time	% R	1 H G
S0	1.00	1919		X
S0.2	1.00	1921		X
S0.5	1.00	1922		X
S1.0	1.00	1924		X
S5.0	1.00	1926		X
S10.0	1.00	1928		X
ICV	1.00	1930		X
ICB	1.00	1932		X
CCV	1.00	1933		X
CCB	1.00	1935		X
CRA	1.00	1937		X
PBS	1.00	1939		X
LCSS	5.00	1941		X
JILF-MBV-WC-CD01	1.00	1943		
JILF-MBV-CS-BS02	1.00	1945		X
ZZZZZZ	1.00	1947		
JILF-MBV-CS-BS02S	1.00	1948		X
CCV	1.00	1950		X
CCB	1.00	1952		X
JILF-MBV-WC-CD01	2.00	1954		X
JILF-MBV-CS-BS02D	1.00	1956		X
CCV	1.00	1958		X
CCB	1.00	2000		X

METALS
RAW DATA

98 94086

*** Standard: 1 Rep: 1 Seq: 1 19:19:14 25 Jul 2000 HG

Hg .000 PPB 36975

*** Standard: 2 Rep: 1 Seq: 2 19:21:04 25 Jul 2000 HG

Hg .200 PPB 33974

*** Standard: 3 Rep: 1 Seq: 3 19:22:49 25 Jul 2000 HG

Hg .500 PPB 56937

*** Standard: 4 Rep: 1 Seq: 4 19:24:39 25 Jul 2000 HG

Hg 1.00 PPB 106412

*** Standard: 5 Rep: 1 Seq: 5 19:26:33 25 Jul 2000 HG

Hg 5.00 PPB 493723

*** Standard: 6 Rep: 1 Seq: 6 19:28:18 25 Jul 2000 HG

Hg 10.0 PPB 1006628

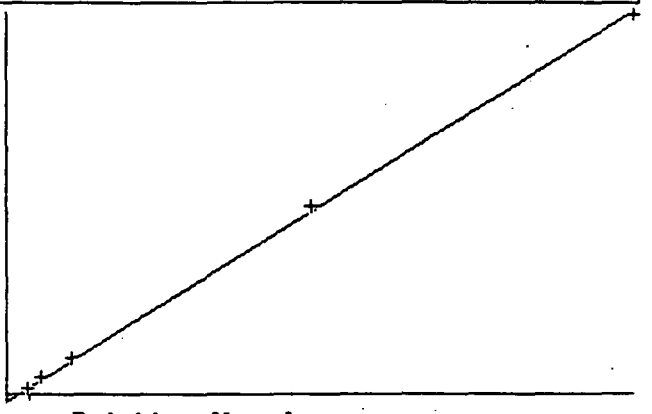
HP
07/25/00

RunProt: EPA
RunFold: 0725A Seq: 7 Batch:
Prnt: R/T On Pump: On
Rev: 4.2 19:28:31 25 Jul 2000 Xmit: Off Gas: 0.70 LPM
State: Idle User: A/S: On

CALIBRATION: Line proto: EPA

	Hg Conc.	Calc.	Dev.	Accepted ->linear
S1	.000	.222	.222	Quadratic
S2	.200	.192	-.008	Wtdlinear
S3	.500	.425	-.075	C
S4	1.00	.928	-.072	Accept o
S5	5.00	4.86	-.138	n
S6	10.0	10.1	.072	c

A .0000000 r .999470
B 1.01579e-5 C -1.53393e-1



	Mean		
S1	36975	0 SD	36975
S2	33974	0 %RSD	33974
S3	56937	0 %RSD	56937
S4	106412	0 %RSD	106412
S5	493723	0 %RSD	493723
S6	1006628	0 %RSD	1006628

New cal coefficients stored

HP
07/25/00

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: ICV					Seq: 7	19:30:37 25 Jul 2000 HG		
			ICV					
Hg	3.64	PPB	.000	3.64				
*** Sample ID: ICB					Seq: 8	19:32:18 25 Jul 2000 HG		
			ICB					
Hg	-.037	PPB	.000	-.037				
*** Sample ID: CCV1					Seq: 9	19:33:58 25 Jul 2000 HG		
			CCV					
Hg	4.36	PPB	.000	4.36				
*** Sample ID: CCB1					Seq: 10	19:35:37 25 Jul 2000 HG		
			CCB					
Hg	-.143	PPB	.000	-.143				
*** Sample ID: CRA					Seq: 11	19:37:38 25 Jul 2000 HG		
			CRA					
Hg	.100	PPB	.000	.100				
*** Sample ID: PBS					Seq: 12	19:39:19 25 Jul 2000 HG		
			PBS					
Hg	-.080	PPB	.000	-.080				
*** Sample ID: LCSS					Seq: 13	19:41:01 25 Jul 2000 HG		
			LCSS*5					
Hg	4.38	PPB	.000	4.38				
*** Sample ID: 29664								
			JILF-MBV-WC-CD01					
Hg	14.1	PPB	.000	14.1				
*** Sample ID: 29665								
			JILF-MBV-WC-BS02					
Hg	.198	PPB	.000	.198				
*** ~~Sample ID: 29665D~~ 222222 BS02D								
			~~JILF-MBV-WC-CD01S~~					
~~Hg~~	~~.746~~	~~PPB~~	~~.000~~	~~-.746~~				
*** Sample ID: 29665S					Seq: 17	19:48:48 25 Jul 2000 HG		
			JILF-MBV-CS-BS02S					
Hg	1.17	PPB	.000	1.17				
*** Sample ID: CCV2					Seq: 18	[illegible]		
Hg	4.95	PPB	.000	4.95				

HAO 07/25/00

HAO 7/25/00

HAO 7/25/00

HP 07/25/00

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: CCB2					Seq: 19	19:52:17 25 Jul 2000 HG		
Hg	-.015	PPB	.000	CCB -.015				
*** Sample ID: 29664LDF=2 JILF-MBV-WC-CD01								
Hg	8.35	PPB	.000	8.35				
*** Sample ID: 29665D ~~LDF=2~~ HP 7/25/00								
Hg	.149	PPB	.000	.149				
*** Sample ID: CCV3					Seq: 22	19:58:27 25 Jul 2000		
Hg	4.59	PPB	.000	4.59				
*** Sample ID: CCB3								
Hg	-.123	PPB	.000	-.123				

HP 07/25/00

HP 07/25/00 HP 20:01:00

HP 07/25/00

CHEMTECH 205 Campus Plaza I, Edison, New Jersey 08837

MERCURY ANALYSIS LOGBOOK

ANALYST SIGNATURE: SUPERVISOR REVIEW:

DATE	CASE NUMBER	BATCH NUMBER	START TIME	% ABSORBANCE OF STANDARD BLK	STD1	STD2	STD3	STD4	STD5	END TIME	CORR. COEF.	SLOPE X	CONC. B	ANALYST
07/21/00	L113		17:08	248	3449	7324	14331	58135	129513	17:58	.998465			Marked
07/22/00	L113		9:29	647	2240	4384	15026	76499	139432	10:21	.998785			Marked
07/22/00	L9342 cup	6991	12:49	662	4410	11234	16531	65696	146625	13:57	.996078			Marked
07/22/00	R1039		11:29	-162	3944	11661	15577	70864	159936	12:11	.998319			Marked
07/22/00	L9326 cup	6991	16:21	2442	3203	12410	16229	59734	131745	17:24	.997625			Marked
07/22/00	L113		17:39	1018	3174	11608	16192	54964	129155	18:32	.995622			Marked
07/25/00	L9408 cup	7041	19:19	368979	33974	56431	106412	149373	190662	20:01	.999470			Marked
07/25/00	L9376 NS	6996	20:05	6264	8851	43101	118621	447194	922841	20:50	.999793			Marked
	L9364 NS	↓	↓				↓			↓	↓			↓
	L9344 NS													

MERCURY_ANALYSIS2.XLS

REV 2/2000

000025 PAGE #_____

CHEMTECH 205 Campus Plaza I, Edison, New Jersey 08837

MERCURY ANALYSIS LOGBOOK

SUPERVISOR REVIEW:

MERCURY_ANALYSIS.XLS

REV 2/2000

PAGE # 000025

CHEMTECH

205 CAMPUS PLAZA 1, Edison ,New Jersey 08837, 732-225-4111

MERCURY PREPARATION WORKSHEET

METHOD # CVP

PROJECT #: 704

AUTOCLAVE/ BATH TEMP: 95 °C

DIGESTETION TIME: 30 MIN

BALANCE CHECK : (0.20 G) 0.20 g

SUPERVISOR SIGNATURE:

DATE: 07 / 25 /2000

ANALYST SIGNATURE:

STANDARD NAME	MLS USED	STD REF. # FROM LOG	CHEMICAL USED	LOT#
Hg WORKING STD.	1.0	S0735	5% $KMnO_4$	S0672
Hg ICV	1.0	S0742	5% $K_2S_2O_8$	S0673
SPIKE SOLUTION	1.0	S0735	1:2 HNO_3 + H_2SO_4	S0674
CONTROL STANDARD	5.0	S0741		

LAB SAMPLE NUMBER	CLIENT SAMPLE NUMBER	MATRIX WATER/SOIL/TCLP	SAMPLE WEIGHT(g)/VOL(mL)	COMMENTS
Blk 0.0 ppb	S0			
Std 1 0.2 ppb	S0.2			
Std 2 0.5 ppb	S0.5			
Std 3 1.0 ppb	S1.0			
Std 4 5.0 ppb	S5.0			
Std 5 10.0 ppb	S10.0			
ICV	ICV			
ICB	ICB			
CCV	CCV			
CCB	CCB			
CRA	CRA			
PBS	PBS	SOIL		
LCSS	LCSS	SOIL		
29660	JILF-MRV-W(-CD01	SOIL	0.20 g	LAYOUT CHG
29665	JILF-MRV-CS-BS02	SOIL	0.20 g	
29665D	JILF-MRV-CS-BS02D	SOIL	0.20 g	
29665S	JILF-MRV-CS-BS02S	SOIL	0.20 g	

REV. DATE 7/17/00 REV 1.0
HGPRE.DOC

PAGE 031

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0028

INORGANIC
STANDARD PREPATATION LOG

NAME	NO.	DATE	INITIALS
Hg Std. Int	S0736	07/25/00	M

FROM

1.0ml X0002 + 2ml con. HNO_3 (X0017) —F.V. 100ml DI H_2O→ = 10.0 ppm Hg

NAME	NO.	DATE	INITIALS
Hg Control Std	S0737	07/25/00	M

FROM

1.0 ml X0003 + 2 ml con. HNO_3 (X0017) —F.V. 100 ml DI H_2O→ = 10.0 ppm Hg

NAME	NO.	DATE	INITIALS
Hg Cooking std	S0738	07/25/00	M

FROM

1.0ml S0736 + 2ml con. HNO_3 (X0017) —F.V. 100ml DI H_2O→ = 100 ppb Hg

NAME	NO.	DATE	INITIALS
Hg Control Working Std	S0739	07/25/00	M

FROM

1.0 ml S0737 + 2 ml con. HNO_3 (X0017) —F.V. 100 ml DI H_2O→ = 100 ppb Hg

INORGANIC
STANDARD PREPATATION LOG

NAME	NO.	DATE	INITIALS
Hg Std.	S0740	07/25/00	M

FROM

0.2 ml ppb Hg
0.5 ml ppb
1.0 ml ppb
5.0 ml ppb
10.0 ml ppb
} S0738 —F.V. 100 ml DI H_2O→ + reagents = 0.2 ppb
0.5 ppb
1.0 ppb
5.0 ppb
10.0 ppb

NAME	NO.	DATE	INITIALS
Hg Control Std.	S0741	07/25/00	M

FROM

5.0 ml S0739 —F.V. 100 ml DI H_2O→ = 5.0 ppb Hg

NAME	NO.	DATE	INITIALS
Hg ICV	S0742	07/25/00	M

FROM

1.0 ml X0004 + 2 ml con. HNO_3 (X0017) —F.V. 100 ml DI H_2O→ + reagents = 4 ppb

NAME	NO.	DATE	INITIALS
Sn Std	06/26/00	S0743	M

FROM

100 g $SnCl_2$ (X0011) + 100 ml con. HCl (X0018) —F.V. 1000 ml DI H_2O→ = 1000 ml $SnCl_2$

Chemtech Consulting Group 07/24/00 18:12

SAMPLES CHECKED OUT FOR % SOLIDS ANALYSIS BY NP
DATE 07/24/00 TIME 18:12 MATRIX SO BATCH NO. 105631

SAMPLE NUMBER	PROJ. NAME	SAMPLE ID	DATE SAMPLED	FRACTIONS OK	PREVIOUS A-BATCH NUMBER	ANALY TECH				
29384	L9376N	14306-02STOCKPILECOMPOSITE	07/17/00	C	105601	PP 1				%
29386	L9377A	MW-58'-10'	07/17/00	C	105601	PP 2				%
29387	L9377A	MW-92'6"-3'	07/17/00	C	105601	PP 3				%
29388	L9377A	MW-44'-6'	07/17/00	C	105601	PP 4				%
29389	L9377A	MW-440'-42'	07/17/00	C	105601	PP 5				%
29390	L9377A	MW-17'-7'5"	07/17/00	C	105601	PP 6				%
29391	L9377A	MW-35'-7'	07/18/00	C	105601	PP 7				%
29392	L9377A	MW-3MS5'-7'	07/18/00	C	105601	PP 8				%
29393	L9377A	MW-3MSD5'-7'	07/18/00	C	105601	PP 9				%
29395	L9377A	MW-73'-4'5"	07/18/00	C	105601	PP 10				%
29396	L9377A	MW-63'-5'	07/18/00	C	105601	PP 11				%
29397	L9377A	MW-21'-3'	07/18/00	C	105601	PP 12				%
29398	L9377A	MW-83-5'	07/18/00	C	105601	PP 13				%
29399	L9377A	MW-102'-4'	07/18/00	C	105601	PP 14				%
29664	L9408L	JILF-MBV-WC-CD01	07/20/00	C	105601	PP 15	1.05	12.75	12.12	94.6
29665	L9408L	JILF-MBV-CS-BS02	07/20/00	C	105601	PP 16	1.05	13.97	13.34	95.1
29798	L9424C	B-6(8-10)	07/21/00	C		17	1.06	9.51	8.09 ~~10.50~~	83.2
29799	L9424C	B-6COMPOSITE	07/21/00	C		17A	1.02	12.75	10.33	79.3

CHEMTECH CONSULTING GROUP

MISCELLANEOUS DATA

8/L

CHEMTECH

205 CAMPUS PLAZA I. RARITAN CENTER EDISON NEW JERSEY 08837
NEW JERSEY LAB ID#: 12013 ; NEW YORK LAB ID#: 11376

METALS CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: L9408 CLP MATRIX: SOIL

METHOD: CLP

		NA	NO	YES
1.	Calibration Summary meet criteria.			
2.	ICP Interference Check Sample Results Summary Submitted			✓
	(if applicable)/Meet criteriaBlank Contamination			✓
3.	Serial Dilution Summary Submitted (if applicable)/meet criteria			✓
4.	Laboratory Control Sample Summary Submitted (if applicable)			✓
5.	Blank Contamination		✓	

If YES, list compounds and concentrations in each blank:

		NA	NO	YES
2.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside of the acceptance range:			✓
3.	Sample Duplicate Analysis Meet QC Criteria: If not met, list those compounds and their % differences which fall outside of the acceptance range:			✓
4.	Extraction Holding Time Met (if not met, list number of days exceeded for each sample:			✓
4.	Analysis Holding Time Met If not met, list number of days exceeded for each sample:			✓

ADDITIONAL COMMENTS:

Data Reqmt peer review — 7/26/00 Date

~~Analyst~~

Carol B. [illegible] — 8/14/00 Date

QA REVIEW

SHIPPING AND RECEIVING DOCUMENTATION

CHEMTECH
CHAIN OF CUSTODY RECORD

Please check one:

☐ 110 Route 4, Englewood, NJ 07631, (201) 567-6868, Fax (201) 567-1333

☑ 205 Campus Plaza 1, Edison, NJ 08837, (732) 225-4111, Fax (732) 225-4110

CHEMTECH JOB NO.: L9408LP

CHEMTECH QUOTE NO.:

CLIENT INFORMATION (REPORT TO BE SENT TO:)

COMPANY: FOSTER-WHEELER ENVIR CORP

ADDRESS: ONE OXFORD VALLEY SUITE 200

CITY: LANGHORNE STATE: PA ZIP: 19047

ATTENTION: CARL TIPPMAN

PHONE: 215-702-4000 FAX: 215-702-4045

PROJECT INFORMATION

PROJECT NAME: PORTSMOUTH NAVY SHIPYARD

PROJECT NO.: 1224-DC88

PROJECT MANAGER: CARL TIPPMAN

LOCATION: PORTSMOUTH SHIPYARD, ME

PHONE: — FAX: —

BILLING INFORMATION

BILL TO: FOSTER WHEELER PO #: 027954

ADDRESS: (SAME AS CLIENT INFO)

CITY: LANGHORNE STATE: ZIP:

ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX: 24 HR ☑ DAYS *

HARD COPY: STANDARD DAYS *

EDD: DAYS *

* TO BE APPROVED BY CHEMTECH

** NORMAL TURNAROUND TIME - 14 DAYS

DATA DELIVERABLE INFORMATION

☐ RESULTS ONLY ☑ SEPA CLP

☐ RESULTS + QC ☐ NYS ASP "B"

☐ NJ REDUCED ☐ NYS ASP "A"

☐ NJ CLP ☐ EDD

☐ EDD FORMAT:

ANALYSIS

1: TOT Hg (24 hr TAT) 2: FULL TCLP 3: TCLP VOC - 5 day TAT 4: TOTAL TCLP UNITS DIRECTED 5: 6: 7: 8: 9:

PRESERVATIVES / **COMMENTS**

Specify Preservatives: A – HCl, B – HNO_3, C – H_2SO_4, D – NaOH, E – ICE, F – Other

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	1	2	3	4	5	6	7	8	9	COMMENTS
1. 29664	JILF-MBV-INC-CD&1	SOLID	X	X	7/20/00	1100	4	X		A	A						
2. 29665	JILF-MBV-CS-BS02	SOLID		X	7/20/00	730	1	X									
3.																	
4.																	
5.																	
6.																	
7.																	
8.																	

0034

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. [signature]	7/20/00 1400	1. DHL →
RELINQUISHED BY: 2. →	DATE/TIME:	RECEIVED BY: 2.
RELINQUISHED BY: 3.	DATE/TIME: 7/21/00 - 10AM	RECEIVED FOR LAB BY: 3.

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non-Compliant ☐ Temp. of Cooler

Comments: 24 hr TAT on Hg samples. TOTAL TCLP UNITS DIRECTED. 5 Day TAT on TCLP VOC-GRAB

Page 1 of 1 Shipment Complete: Yes ____ No ____

Ver. 6/2000 WHITE – CHEMTECH COPY FOR RETURN TO CLIENT YELLOW – CHEMTECH COPY PINK – SAMPLER COPY

20077

REORDER, 761763594-1 QTY 25

Shipment Airwaybill

DHL WORLDWIDE EXPRESS

1-800-CALL-DHL (Non negotiable) In USA only

WEB ADDRESS: http://www.dhl.com

CHG LCHG

0425268 06

Quote this shipment number in an inquiry

804 2526 306

ORIGIN DESTINATION

1 From (Shipper)

Account no. 761763594

Shipper's reference

SITE WHEELER ENVIRN CORP

Company name

PO BOX 298
PORTSMOUTH NAVAL SHIPYARD
KITTERY ME

Zip code (required) 03801

Phone/Fax/E-mail (207) 439-9701

2 To (Recipient)

Company name CHEMTECH

Attention SAMPLE RECEIPT

Delivery address 205 CAMPUS PLAZA 1
EDISON NJ 08837

City/Postcode (Required) 08837

Phone/Fax/E-mail 732-225-4111

3 Shipment details

Domestic Services
[X] USA OVERNIGHT

International Services
[ ] INT'L DOCUMENT EXPRESS
[ ] WORLDWIDE PRIORITY EXPRESS
[ ] WORLDFREIGHT

WorldMail Services
[ ] Airmail [ ] 2nd class [ ] Other

Special Services
[ ] SATURDAY DELIVERY
[ ] POD
[ ] OTHER

Payment Options not all options available to all countries
[X] Shipper's account
[ ] Recipient [ ] Third party

Acct. No.

Full description of contents
ENVIRONMENTAL SAMPLES

International non document shipments only
Attach original and four copies of a Commercial Invoice.

Declared value for customs (In US $)

Export license No./Symbol (if applicable)

Harmonized Sched. B No. (if applicable)

Type of export (If left blank, Permanent is assumed)
[ ] Permanent
[ ] Temporary [ ] Repair/Return

Shipper's EIN/SSN

These commodities, technology or software were exported from the United States in accordance with the export administration regulations. Diversion contrary to U.S. law prohibited.

Destination duties/taxes (If left blank recipient pays duties/taxes)
[ ] Recipient [ ] Shipper [ ] Other

4 Pcs/Weight/Size

No. of pieces 1

Weight (If DHL Express Document packaging is used, enter XL) 20 lb

Dimensions in inches 24 x 16 x 18

Pieces length width height

DIMENSIONAL/CHARGED WEIGHT lb

CODES CHARGES Services

Special services

Insurance

Drop Box Exp. Center

TOTAL

TRANSPORT COLLECT STICKER No.

PICKED UP BY

Time 1355 1140

5 Shipper's authorization and signature

I agree that DHL's standard terms apply to this shipment and that DHL, subject to Exc. or damage to U.S. $ 100. The Warsaw Convention may apply. Upon request I give authorize DHL to complete other documents or do any act required for shipment. Full details of DHL shipment are available on request for an extra charge. I agree to pay all charges if the recipient or third party does not pay. I understand that the DHL Air Waybill Cargo

Signature (required)

Date 7,20,00

DHL AIRWAYS, INC. • 333 TWIN DOLPHIN DRIVE, REDWOOD CITY, CA 94065

Recipient's Copy

0035

CHEMTECH

Campus Plaza 1
Edison, NJ 08837
Phone: (732) 225-4111
Fax: (732) 225-4110

RECORD OF COMMUNICATION
VERBAL / TELEPHONE COMMUNICATION LOG

Date: 8/14/00 Client: Foster Wheeler

Chemtech Project No: L9408 Chain of Custody No: 36677

Chemtech Contact: Robin Dean Client Contact: ~~Portsmouth~~ Chris Joblon

Project Reference: Portsmouth Navy ship yard

Call Initiated By: RD Chemtech _____ Client

In reference to the following: Hg contingency

Question / Issues

Resolution: Release Project from hold and cancel Full TCLP Not Required.

Signature: [signature] Date: 8/14/00

Since 1967

CHEMTECH 205 Campus Plaza 1 • Edison, NJ 08837 Phone: 732.225.4111 Fax: 732.225.4110

DATA PACKAGE FOR MERCURY

PROJECT NAME: PORTSMOUTH NSY
PROJECT # 1284-D038

FOSTER WHEELER
ONE OXFORD VALLEY, SUITE 200
2300 LINCOLN HIGHWAY EAST
LANGHORNE, PA 19047
215-702-4020

CHEMTECH PROJ#: L9543NJ
ATTENTION: CARL TIPPMAN

Since 1967

CHEMTECH

CASE NARRATIVE

Foster Wheeler Environmental
Project Name: PORTSMOUTH NSY
Project # 1284.D038
Chemtech Project # L9543LP

A. Number of Samples and Date of Receipt
2 Soil Samples were delivered to the laboratory intact on 07/31/00..

B. Parameters
Test requested on the Chain of Custody was Mercury. This data package contains results for Mercury.

C. Analytical Techniques
The samples were analyzed for Mercury according to Method 245.1.

D. QA/ QC Samples
A Method Blank, Spike and Duplicate sample were digested and analyzed along with the samples.

Calibrations met requirements. Blank analyses did not indicate the presence of contamination.. Interference Check Sample, Laboratory Control Sample recoveries were within QC limits. Spike Sample recovery met requirements. Duplicate recoveries met requirements except for Mercury.

I certify that the data package is in compliance with the terms and conditions of the contract both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Signature Mildred V. Reyes Name_ Mildred V. Reyes

Date 8/9/00 Title_QA/QC

CHEMTECH 205 Campus Plaza 1 • Edison, NJ 08837 Phone: 732.225.4111 Fax: 732.225.4110

COVER PAGE

Lab Name: Chemtech Consulting Group
Lab Code: CHEM Project No.: L9543LP

Client: FOSTER WHEELER ENVIRONMENTAL
Project Name: PORTSMOUTH NSY

Client Sample No.	Lab Sample ID
JILF-MBV-SCRAPEDOWN#1	30803
JILF-MBV-SCRAPEDOWN#2	30804

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designed, as verified by the following signature.

Signature: Mildred V. Reyes Name: MILDRED V.REYES

Date : 8/9/00 Title: QA/QC

Since 1967

DATA REPORTING QUALIFIERS - - INORGANIC

For reporting results, the following "Results Qualifiers" are used:

B - If the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).

U - If the analyte was analyzed for, but not detected.

E - The reported value is estimated because of the presence of interference.

M - Duplicate injection precision not met.

N - Spiked sample recovery not within control limits.

S - The reported value was determined by the Method of Standard Additions (MSA).

W - Post-digestion spike for Furnace AA analysis is out of control limits (85 - 115%), while sample absorbance is less than 50% of spike absorbance.

* - Duplicate analysis not within control limits.

+ - Correlation coefficient for the MSA is less than 0.995.

*** - Entering "S", "W", or "+" is mutually exclusive. No combination of these qualifiers can appear in the same field for an analyte.

M (Method) qualifier

"P" for ICP
"A" for Flame AA
"F" for Furnace AA
"PM" for ICP when Microwave Digestion is used
"AM" for flame AA when Microwave Digestion is used
"FM" for furnace AA when Microwave Digestion is used
"CV" for Manual Cold Vapor AA
"AV" for automated Cold Vapor AA
"CA" for Midi-Distillation Spectrophotometric
"AS" for Semi-Automated Spectrophotometric
"C" for Manual Spectrophotometric
"T" for Titrimetric
"NR" if the analyte is not required to be analyzed

METALS RESULTS

METALS
SAMPLE DATA

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

JILF-MBV-SCRAPEDOWN#1

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEMED Case No.: SAS No.: SDG No.: L9543

Matrix (soil/water): SOIL Lab Sample ID: 30803S

Level (low/med): LOW Date Received: 07/31/00

% Solids: 89.7

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	0.06	U	*	CV

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

JILF-MBV-SCRAPEDOWN#2

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEMED Case No.: SAS No.: SDG No.: L9543

Matrix (soil/water): SOIL Lab Sample ID: 30804S

Level (low/med): LOW Date Received: 07/31/00

% Solids: 95.6

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	0.21		*	CV

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

METALS
CALIBRATIONS DATA

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: CHEMTECH CONSULTING GROUP Contract:

Lab Code: CHEMED Case No.: SAS No.: SDG No.: L9543

Initial Calibration Source: EPA-LV

Continuing Calibration Source: EPA-LV

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Mercury	4.1	4.03	98.3	5.0	5.19	103.8	4.72	94.4	CV

(1) Control limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: CHEMTECH CONSULTING GROUP Contract:

Lab Code: CHEMED Case No.: SAS No.: SDG No.: L9543

Initial Calibration Source: EPA-LV

Continuing Calibration Source: EPA-LV

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Mercury				5.0	4.91	98.2	4.98	99.6	CV

(1) Control limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: CHEMTECH CONSULTING GROUP Contract:

Lab Code: CHEMED Case No.: SAS No.: SDG No.: L9543

Initial Calibration Source: EPA-LV

Continuing Calibration Source: EPA-LV

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Mercury				5.0	5.24	104.8	5.01	100.2	CV

(1) Control limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: CHEMTECH CONSULTING GROUP Contract:

Lab Code: CHEMED Case No.: SAS No.: SDG No.: L9543

Initial Calibration Source: EPA-LV

Continuing Calibration Source: EPA-LV

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Mercury				5.0	4.46	89.2	4.91	98.2	CV

(1) Control limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: CHEMTECH CONSULTING GROUP Contract:

Lab Code: CHEMED Case No.: SAS No.: SDG No.: L9543

AA CRDL Standard Source: INOR-VEN

ICP CRDL Standard Source:

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	True	Initial Found	%R	Final Found	%R
Mercury	0.2	0.54	270.0					

U.S. EPA - CLP

3

BLANKS

Lab Name: CHEMTECH CONSULTING GROUP Contract:

Lab Code: CHEMED Case No.: SAS No.: SDG No.: L9543

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Mercury	0.1	U	0.1	U	0.1	U	0.1	U	0.050	U	CV

U.S. EPA - CLP

3

BLANKS

Lab Name: CHEMTECH CONSULTING GROUP Contract:

Lab Code: CHEMED Case No.: SAS No.: SDG No.: L9543

Preparation Blank Matrix (soil/water):

Preparation Blank Concentration Units (ug/L or mg/kg):

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Mercury			-0.1	B	0.1	U	0.1	U			CV

0015

U.S. EPA - CLP

3

BLANKS

Lab Name: CHEMTECH CONSULTING GROUP Contract:

Lab Code: CHEMED Case No.: SAS No.: SDG No.: L9543

Preparation Blank Matrix (soil/water):

Preparation Blank Concentration Units (ug/L or mg/kg):

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Mercury			0.1	U	-0.1	B					CV

METALS
QC DATA

5A

SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

HC-1AS

Lab Name: CHEMTECH CONSULTING GROUP

Lab Code: CHEMED Case No.: SAS No.: SDG No.: L9514

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 96.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Mercury	75-125	0.6273		0.0285	B	0.49	122.2		CV

Comments:

U.S. EPA - CLP

6

DUPLICATES

EPA SAMPLE NO.

HC-1AD

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEMED Case No.: SAS No.: SDG No.: L9514

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 96.4 % Solids for Duplicate: 96.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Mercury	0.0	0.0285	B	0.2297		155.8	*	CV

7

LABORATORY CONTROL SAMPLE

Lab Name: CHEMTECH CONSULTING GROUP Contract:

Lab Code: CHEMED Case No.: SAS No.: SDG No.: L9543

Solid LCS Source: INOR.VEN.

Aqueous LCS Source:

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Mercury				12.3	12.4		7.8	16.9	100.8

U.S. EPA - CLP

8

STANDARD ADDITION RESULTS

Lab Name: CHEMTECH CONSULTING GROUP Contract:

Lab Code: CHEMED Case No.: SAS No.: SDG No.: L9543

Concentration Units: ug/L

EPA Sample No.	An	0 ADD ABS	1 ADD CON	1 ADD ABS	2 ADD CON	2 ADD ABS	3 ADD CON	3 ADD ABS	Final Conc.

METALS PREPARATION & INSTRUMENT DATA

U.S. EPA - CLP

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: CHEMTECH CONSULTING GROUP Contract:

Lab Code: CHEMED Case No.: SAS No.: SDG No.: L9543

ICP ID Number: Date: 07/12/00

Flame AA ID Number: CV

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Mercury	253.70		0.2	0.1	CV

Comments:

CV: SPECTRO-PRODUCTS MERCURY ANALYZER

U.S. EPA - CLP

13
PREPARATION LOG

Lab Name: CHEMTECH CONSULTING GROUP Contract:

Lab Code: CHEMED Case No.: SAS No.: SDG No.: L9543

Method: CV

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
JILF-MBV-SCRAPEDOWN#1	08/02/00	0.20	100
JILF-MBV-SCRAPEDOWN#2	08/02/00	0.20	100
LCSS	08/02/00	0.20	100
PBS	08/02/00	0.20	100

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: CHEMTECH CONSULTING GROUP Contract:

Lab Code: CHEMED Case No.: SAS No.: SDG No.: L9543

Instrument ID Number: CV Method: CV

Start date: 08/03/00 End date: 08/03/00

EPA Sample No.	D/F	Time	% R	1 H G
S0	1.00	1034		X
S0.2	1.00	1036		X
S0.5	1.00	1039		X
S1.0	1.00	1042		X
S5.0	1.00	1044		X
S10.0	1.00	1047		X
ICV	1.00	1049		X
ICB	1.00	1051		X
CCV	1.00	1054		X
CCB	1.00	1056		X
CRA	1.00	1059		X
PBS	1.00	1101		X
LCSS	5.00	1104		X
ZZZZZZ	1.00	1106		
ZZZZZZ	1.00	1109		
ZZZZZZ	1.00	1112		
ZZZZZZ	1.00	1115		
ZZZZZZ	1.00	1117		
ZZZZZZ	1.00	1120		
ZZZZZZ	1.00	1122		
CCV	1.00	1124		X
CCB	1.00	1127		X
ZZZZZZ	1.00	1129		
ZZZZZZ	1.00	1132		
ZZZZZZ	1.00	1134		
ZZZZZZ	1.00	1137		
ZZZZZZ	1.00	1139		
ZZZZZZ	1.00	1142		
ZZZZZZ	1.00	1144		
ZZZZZZ	1.00	1147		
ZZZZZZ	1.00	1149		
ZZZZZZ	1.00	1152		

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14
ANALYSIS RUN LOG

Lab Name: CHEMTECH CONSULTING GROUP Contract:

Lab Code: CHEMED Case No.: SAS No.: SDG No.: L9543

Instrument ID Number: CV Method: CV

Start date: 08/03/00 End date: 08/03/00

EPA Sample No.	D/F	Time	% R	1 H G
CCV	1.00	1155		X
CCB	1.00	1157		X
ZZZZZZ	1.00	1159		
ZZZZZZ	1.00	1202		
ZZZZZZ	1.00	1205		
ZZZZZZ	1.00	1208		
ZZZZZZ	1.00	1210		
ZZZZZZ	1.00	1213		
ZZZZZZ	1.00	1215		
ZZZZZZ	1.00	1218		
ZZZZZZ	1.00	1220		
ZZZZZZ	1.00	1223		
CCV	1.00	1226		X
CCB	1.00	1229		X
ZZZZZZ	1.00	1232		
ZZZZZZ	1.00	1234		
ZZZZZZ	1.00	1237		
ZZZZZZ	1.00	1240		
ZZZZZZ	1.00	1242		
ZZZZZZ	1.00	1245		
ZZZZZZ	1.00	1248		
ZZZZZZ	1.00	1251		
ZZZZZZ	1.00	1253		
ZZZZZZ	1.00	1256		
CCV	1.00	1258		X
CCB	1.00	1300		X
ZZZZZZ	1.00	1303		
ZZZZZZ	1.00	1306		
ZZZZZZ	1.00	1308		
ZZZZZZ	1.00	1311		
ZZZZZZ	1.00	1313		
ZZZZZZ	1.00	1316		

U.S. EPA - CLP

14

ANALYSIS RUN LOG

Lab Name: CHEMTECH CONSULTING GROUP Contract:

Lab Code: CHEMED Case No.: SAS No.: SDG No.: L9543

Instrument ID Number: CV Method: CV

Start date: 08/03/00 End date: 08/03/00

EPA Sample No.	D/F	Time	% R	1 H G
ZZZZZZ	1.00	1318		
ZZZZZZ	1.00	1321		
CCV	1.00	1323		X
CCB	1.00	1325		X
ZZZZZZ	1.00	1328		
ZZZZZZ	5.00	1331		
ZZZZZZ	1.00	1333		
ZZZZZZ	1.00	1336		
ZZZZZZ	1.00	1338		
ZZZZZZ	1.00	1341		
ZZZZZZ	1.00	1344		
ZZZZZZ	1.00	1346		
ZZZZZZ	1.00	1349		
ZZZZZZ	1.00	1351		
CCV	1.00	1354		X
CCB	1.00	1356		X
JILF-MBV-SCRAPEDOWN#1	1.00	1359		X
JILF-MBV-SCRAPEDOWN#2	1.00	1401		X
ZZZZZZ	1.00	1404		
ZZZZZZ	1.00	1407		
ZZZZZZ	1.00	1409		
ZZZZZZ	1.00	1412		
ZZZZZZ	1.00	1415		
ZZZZZZ	1.00	1417		
CCV	1.00	1419		X
CCB	1.00	1422		X

METALS
RAW DATA

*** Standard: 1 Rep: 1 SO Seq: 8 10:34:26 03 Aug 2000 HG

Hg .000 ppb -850

Ave. Int. = -850 S. D. = 0

08/03/00

Folder: 080300A
10:36:55 03 Aug 2000 Protocol: HGS CHEMTECH Page

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Standard: 2 Rep: 1 S0.2 Seq: 9 10:36:55 03 Aug 2000 HG

Hg .200 ppb 2631
Ave. Int. = 2631 S. D. = 0

*** Standard: 3 Rep: 1 S0.5 Seq: 10 10:39:23 03 Aug 2000 HG

Hg .500 ppb 5137
Ave. Int. = 5137 S. D. = 0

*** Standard: 4 Rep: 1 S1.0 Seq: 11 10:42:01 03 Aug 2000 HG

Hg 1.00 ppb 11812
Ave. Int. = 11812 S. D. = 0

*** Standard: 5 Rep: 1 S5.0 Seq: 12 10:44:39 03 Aug 2000 HG

Hg 5.00 ppb 52399
Ave. Int. = 52399 S. D. = 0

*** Standard: 6 Rep: 1 S10.0 Seq: 13 10:47:08 03 Aug 2000 HG

Hg 10.0 ppb 105718
Ave. Int. = 105718 S. D. = 0

X
d

Mabel 080300

Protocol: HCS CHEMTECH

Rev: 3.001 Time: 10:47:47 03 Aug 2000

Folder: 000500A Seq: 14 Print: On

User: Batch: ID: 0100Hg1 Cup: Gas: 0.30 LPM

State: Idle Wait: Off Autosampler: On

CALIBRATION: Line Calibration

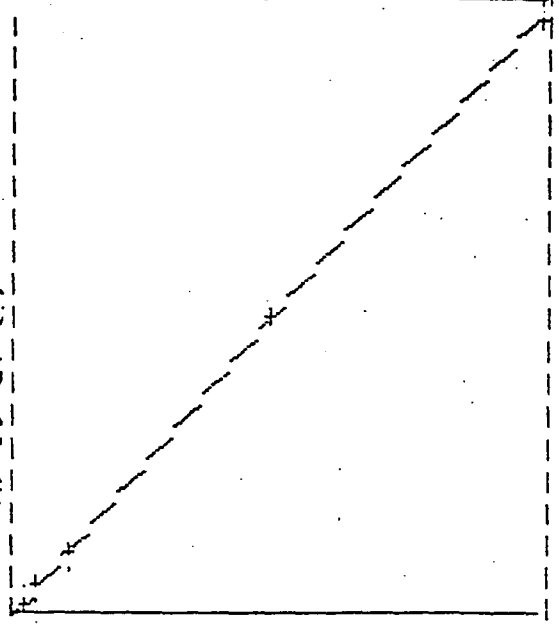
Line: Hg Accepted

	Conc.	Calc.	Dev.	Linear
S1	000	-.001	-.001	Quadratic
S2	.200	.239	.039	Wt/Linear
S3	.500	.477	-.023	
S4	1.00	1.11	.107	Accept
S5	5.00	4.96	-.044	
S6	10.0	10.0	.009	StdAdd

R .0000000 r .999848

m 0.47744E-5 c 4.00074E-2

p 5.47714E-5 b -1.00074E-2



Relative Absorbance

	Mean	%RSD	
S1	-850	0	-850
S2	2651	0	2651
S3	5137	0	5137
S4	11012	0	11012
S5	52399	0	52399
S6	105718	0	105718

New calibration coefficients stored

Rachel 08/03/00

Folder: 080300A
10:49:28 03 Aug 2000 Protocol: HGS CHEMTECH Page

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: ICV					Seq: 16	10:49:28 03 Aug 2000 HG		
			ICV					
Hg	4.03	ppb	.000	4.03				
*** Sample ID: ICB					Seq: 17	10:51:51 03 Aug 2000 HG		
			ICB					
Hg	-.079	ppb	.000	-.079				
*** Sample ID: CCV1					Seq: 18	10:54:13 03 Aug 2000 HG		
			CCV					
Hg	5.19	ppb	.000	5.19				
*** Sample ID: CCB1					Seq: 19	10:56:46 03 Aug 2000 HG		
			CCB					
Hg	-.077	ppb	.000	-.077				
*** Sample ID: CRA					Seq: 20	10:59:07 03 Aug 2000 HG		
			CRA					
Hg	.543	ppb	.000	.543				
*** Sample ID: PBS1					Seq: 21	11:01:50 03 Aug 2000 HG		
			PBS					
Hg	-.014	ppb	.000	-.014				
*** Sample ID: LCSS1					Seq: 22	11:04:24 03 Aug 2000 HG		
			LCSS	x5				
Hg	4.98	ppb	.000	4.98				
~~*** Sample ID: R1054-05~~					~~Seq: 23~~	~~11:06:47 03 Aug 2000 HG~~		
			MANP31					
Hg	.030	ppb	.000	.030				
~~*** Sample ID: R1054-05D~~					~~Seq: 24~~	~~11:09:48 03 Aug 2000 HG~~		
			MANP31D					
Hg	-.005	ppb	.000	-.005				
~~*** Sample ID: R1054-05S~~					~~Seq: 25~~	~~11:12:59 03 Aug 2000 HG~~		
			MANP31S					
Hg	.445	ppb	.000	.445				
~~*** Sample ID: R1054-01~~					~~Seq: 26~~	~~11:15:23 03 Aug 2000 HG~~		
			MANP27					
Hg	-.033	ppb	.000	-.033				
~~*** Sample ID: R1054-02~~					~~Seq: 27~~	~~11:17:47 03 Aug 2000 HG~~		
			MANP28					
Hg	.174	ppb	.000	.174				

Hg 080300

Folder: 080300A Page
11:20:08 03 Aug 2000 Protocol: HGS CHEMTECH

Line	Conc.	Units	SD/RSD	1	2	3	4	5
~~*** Sample ID: R1054-03~~					~~Seq: 28~~	~~11:20:08 03 Aug 2000 HG~~		
			MANP29					
Hg	.107	ppb	.000	.107				
~~*** Sample ID: R1054-04~~					~~Seq: 29~~	~~11:22:30 03 Aug 2000 HG~~		
			MANP30					
Hg	.010	ppb	.000	.010				
*** Sample ID: CCV2					Seq: 30	11:24:53 03 Aug 2000 HG		
			CCV					
Hg	4.72	ppb	.000	4.72				
*** Sample ID: CCB2					Seq: 31	11:27:14 03 Aug 2000 HG		
			CCB					
Hg	.023	ppb	.000	.023				
~~*** Sample ID: R1054-06~~					~~Seq: 32~~	~~11:29:45 03 Aug 2000 HG~~		
			MANP32					
Hg	-.044	ppb	.000	-.044				
*** Sample ID: R1054-07					Seq: 33	11:32:19 03 Aug 2000 HG		
			MANP33					
Hg	-.028	ppb	.000	-.028				
*** Sample ID: R1054-08					Seq: 34	11:34:43 03 Aug 2000 HG		
			MANP34					
Hg	.247	ppb	.000	.247				
*** Sample ID: R1054-09					Seq: 35	11:37:28 03 Aug 2000 HG		
			MANP35					
Hg	-.330	ppb	.000	-.330				
*** Sample ID: R1054-10					Seq: 36	11:39:50 03 Aug 2000 HG		
			MANP36					
Hg	-.203	ppb	.000	-.203				
*** Sample ID: R1054-11					Seq: 37	11:42:25 03 Aug 2000 HG		
			MANP41					
Hg	-.135	ppb	.000	-.135				
*** Sample ID: R1054-12					Seq: 38	11:44:47 03 Aug 2000 HG		
			MANP42					
Hg	-.101	ppb	.000	-.101				
~~*** Sample ID: R1054-13~~					~~Seq: 39~~	~~11:47:31 03 Aug 2000 HG~~		
			MANP43					
Hg	-.088	ppb	.000	-.088				

Rev. 05/03/00

Folder: 080300A
11:49:55 03 Aug 2000 Protocol: HGS CHEMTECH Page

Line	Conc.	Units	SD/RSD	1	2	3	4	5
~~*** Sample ID: R1054-14~~					~~Seq: 40~~	~~11:47:55 03 Aug 2000 HG~~		
			MANP44					
Hg	-.058	ppb	.000	-.058				
~~*** Sample ID: R1054-15~~					~~Seq: 41~~	~~11:52:29 03 Aug 2000 HG~~		
			MANP45					
Hg	-.074	ppb	.000	-.074				
*** Sample ID: CCV3					Seq: 42	11:55:02 03 Aug 2000 HG		
			CCV					
Hg	4.91	ppb	.000	4.91				
*** Sample ID: CCB3					Seq: 43	11:57:26 03 Aug 2000 HG		
			CCB					
Hg	-.098	ppb	.000	-.098				
~~*** Sample ID: R1054-16~~					~~Seq: 44~~	~~11:59:49 03 Aug 2000 HG~~		
			MANP46					
Hg	.184	ppb	.000	.184				
*** Sample ID: R1054-17					Seq: 45	12:02:11 03 Aug 2000 HG		
			MANP47					
Hg	.161	ppb	.000	.161				
*** Sample ID: R1054-18					Seq: 46	12:05:54 03 Aug 2000 HG		
			MANP48					
Hg	-.089	ppb	.000	-.089				
*** Sample ID: R1054-19					Seq: 47	12:08:30 03 Aug 2000 HG		
			MANP49					
Hg	.018	ppb	.000	.018				
*** Sample ID: R1054-20					Seq: 48	12:10:53 03 Aug 2000 HG		
			MANP50					
Hg	.123	ppb	.000	.123				
*** Sample ID: PBS2					Seq: 49	12:13:27 03 Aug 2000 HG		
			PBS					
Hg	-.041	ppb	.000	-.041				
*** Sample ID: LCSS2					Seq: 50	12:15:51 03 Aug 2000 HG		
			LCSS	x5				
Hg	5.22	ppb	.000	5.22				
~~*** Sample ID: R1055-16~~					~~Seq: 51~~	~~12:18:27 03 Aug 2000 HG~~		
			MANP62					
Hg	-.003	ppb	.000	-.003				

Mark 080300

Folder: 080300A
12:20:55 03 Aug 2000 Protocol: HGS CHEMTECH Page

Line	Conc.	Units	SD/RSD	1	2	3	4	5
~~*** Sample ID: R1055-16D~~					~~Seq: 52~~	~~12:20:55 03 Aug 2000 HG~~		
			MANP62D					
Hg	-.124	ppb	.000	-.124				
~~*** Sample ID: R1055-16S~~					~~Seq: 53~~	~~12:23:16 03 Aug 2000 HG~~		
			MANP62S					
Hg	.457	ppb	.000	.457				
*** Sample ID: CCV4					Seq: 54	12:26:10 03 Aug 2000 HG		
			CCV					
Hg	4.98	ppb	.000	4.98				
*** Sample ID: CCB4					Seq: 55	12:29:16 03 Aug 2000 HG		
			CCB					
Hg	-.113	ppb	.000	-.113				
~~*** Sample ID: R1055-01~~					~~Seq: 56~~	~~12:32:13 03 Aug 2000 HG~~		
			MANP37					
Hg	.135	ppb	.000	.135				
*** Sample ID: R1055-02					Seq: 57	12:34:58 03 Aug 2000 HG		
			MANP38					
Hg	.307	ppb	.000	.307				
*** Sample ID: R1055-03					Seq: 58	12:37:21 03 Aug 2000 HG		
			MANP39					
Hg	.145	ppb	.000	.145				
*** Sample ID: R1055-04					Seq: 59	12:40:26 03 Aug 2000 HG		
			MANP40					
Hg	.100	ppb	.000	.100				
*** Sample ID: R1055-05					Seq: 60	12:42:59 03 Aug 2000 HG		
			MANP51					
Hg	.174	ppb	.000	.174				
*** Sample ID: R1055-06					Seq: 61	12:45:56 03 Aug 2000 HG		
			MANP52					
Hg	-.055	ppb	.000	-.055				
*** Sample ID: R1055-07					Seq: 62	12:48:22 03 Aug 2000 HG		
			MANP53					
Hg	.152	ppb	.000	.152				
~~*** Sample ID: R1055-08~~					~~Seq: 63~~	~~12:51:10 03 Aug 2000 HG~~		
			MANP54					
Hg	-.180	ppb	.000	-.180				

Mahel 080300

Folder: 080300A
12:53:36 03 Aug 2000 Protocol: HGS CHEMTECH Page

Line	Conc.	Units	SD/RSD	1	2	3	4	5
~~*** Sample ID: R1055-09~~				~~Seq: 64~~	~~12:53:36 03 Aug 2000 HG~~			
			MANP55					
Hg	-.122	ppb	.000	-.122				
~~*** Sample ID: R1055-10~~				~~Seq: 65~~	~~12:56:03 03 Aug 2000 HG~~			
			MANP56					
Hg	-.035	ppb	.000	-.035				
*** Sample ID: CCV5				Seq: 66	12:58:30 03 Aug 2000 HG			
			CCV					
Hg	5.24	ppb	.000	5.24				
*** Sample ID: CCB5				Seq: 67	13:00:57 03 Aug 2000 HG			
			CCB					
Hg	-.083	ppb	.000	-.083				
~~*** Sample ID: R1055-11~~				~~Seq: 68~~	~~13:03:32 03 Aug 2000 HG~~			
			MANP57					
Hg	.184	ppb	.000	.184				
*** Sample ID: R1055-12				Seq: 69	13:06:09 03 Aug 2000 HG			
			MANP58					
Hg	.287	ppb	.000	.287				
*** Sample ID: R1055-13				Seq: 70	13:08:37 03 Aug 2000 HG			
			MANP59					
Hg	.435	ppb	.000	.435				
*** Sample ID: R1055-14				Seq: 71	13:11:05 03 Aug 2000 HG			
			MANP60					
Hg	.339	ppb	.000	.339				
*** Sample ID: R1055-15				Seq: 72	13:13:35 03 Aug 2000 HG			
			MANP61					
Hg	.273	ppb	.000	.273				
*** Sample ID: ~~CCV6~~ 222222 MB 08/03/00				Seq: 73	13:16:04 03 Aug 2000 HG			
Hg	5.43	ppb	.000	~~CCV~~ MB 08/03/00 5.43				
*** Sample ID: ~~CCB6~~ MB 08/03/00 222222				Seq: 74	13:18:40 03 Aug 2000 HG			
Hg	-1.49	ppb	.000	~~CCB~~ MB 08/03/00 -1.49				
~~*** Sample ID: PES3~~ 222222 MB 08/03/00				~~Seq: 75~~	~~13:21:08 03 Aug 2000 HG~~			
Hg	-.233	ppb	.000	~~PES~~ MB 08/03/00 -.233				

MB 08/03/00

Folder: 080300A
13:23:03 03 Aug 2000 Protocol: HGS CHEMTECH Page

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: CCV6					Seq: 80	13:23:03 03 Aug 2000 HG		
			CCV					
Hg	5.01	ppb	.000	5.01				
*** Sample ID: CCB6					Seq: 81	13:25:30 03 Aug 2000 HG		
			CCB					
Hg	.015	ppb	.000	.015				
*** Sample ID: PBS3					Seq: 82	13:28:28 03 Aug 2000 HG		
			PBS					
Hg	-.085	ppb	.000	-.085				
*** Sample ID: LCSS3					Seq: 83	13:31:09 03 Aug 2000 HG		
			LCSS		x5			
Hg	5.27	ppb	.000	5.27				
*** Sample ID: 30469					Seq: 84	13:33:39 03 Aug 2000 HG		
			HC-1A					
Hg	.465	ppb	.000	.465				
*** Sample ID: 30469D					Seq: 85	13:36:27 03 Aug 2000 HG		
			HC-1AD					
Hg	.165	ppb	.000	.165				
*** Sample ID: 30469S					Seq: 86	13:38:55 03 Aug 2000 HG		
			HC-1AS					
Hg	1.27	ppb	.000	1.27				
*** Sample ID: 30470					Seq: 87	13:41:35 03 Aug 2000 HG		
			HC-1B					
Hg	.264	ppb	.000	.264				
*** Sample ID: 30471					Seq: 88	13:44:04 03 Aug 2000 HG		
			HC-5A					
Hg	.606	ppb	.000	.606				
*** Sample ID: 30472					Seq: 89	13:46:44 03 Aug 2000 HG		
			HC-5B					
Hg	.009	ppb	.000	.009				
*** Sample ID: 30473					Seq: 90	13:49:12 03 Aug 2000 HG		
			HC-6A					
Hg	-.224	ppb	.000	-.224				
*** Sample ID: 30474					Seq: 91	13:51:41 03 Aug 2000 HG		
			HC-6B					
Hg	-.048	ppb	.000	-.048				

08/03/00

Folder: 080300A Page
13:54:22 03 Aug 2000 Protocol: HGS CHEMTECH

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: CCV7					Seq: 92	13:54:22 03 Aug 2000 HG		
				CCV				
Hg	4.46	ppb	.000	4.46				
*** Sample ID: CCB7					Seq: 93	13:56:51 03 Aug 2000 HG		
				CCB				
Hg	-.002	ppb	.000	-.002				
*** Sample ID: 30803					Seq: 94	13:59:19 03 Aug 2000 HG		
				JILF-MBV-SCRAPEDOWN#				
Hg	.056	ppb	.000	.056				
*** Sample ID: 30804					Seq: 95	14:01:58 03 Aug 2000 HG		
				JILF-MBV-SCRAPEDOWN#				
Hg	.401	ppb	.000	.401				
~~*** Sample ID: 31324~~					~~Seq: 96~~	~~14:04:38 03 Aug 2000 HG~~		
				ZZZZZZ				
Hg	.069	ppb	.000	.069				
*** Sample ID: 31327					Seq: 97	14:07:08 03 Aug 2000 HG		
				ZZZZZZ				
Hg	.046	ppb	.000	.046				
*** Sample ID: 31358					Seq: 98	14:09:37 03 Aug 2000 HG		
				ZZZZZZ				
Hg	-.009	ppb	.000	-.009				
*** Sample ID: ~~PBW~~ 31329					Seq: 99	14:12:28 03 Aug 2000 HG		
				~~PBW~~				
Hg	-.203	ppb	.000	-.203				
*** Sample ID: ~~31329~~ PBW					Seq: 100	14:15:00 03 Aug 2000 HG		
				~~ZZZZZZ~~ PBW				
Hg	-.127	ppb	.000	-.127				
~~*** Sample ID: 31350~~					~~Seq: 101~~	~~14:17:27 03 Aug 2000 HG~~		
				ZZZZZZ				
Hg	-.133	ppb	.000	-.133				
*** Sample ID: CCV8					Seq: 102	14:19:59 03 Aug 2000 HG		
				CCV				
Hg	4.91	ppb	.000	4.91				
*** Sample ID: CCB8					Seq: 103	14:22:38 03 Aug 2000 HG		
				CCB				
Hg	-.114	ppb	.000	-.114				

ASP

CHEMTECH 205 Campus Plaza I, Edison, New Jersey 08837

MERCURY ANALYSIS LOGBOOK

ANALYST SIGNATURE: SUPERVISOR REVIEW:

DATE	CASE NUMBER	BATCH NUMBER	START TIME	% ABSORBANCE OF STANDARD BLK	STD1	STD2	STD3	STD4	STD5
8/1/00	L9293 cup	716	14:15	2513	4090	6212	12321	58671	119767
	L9437 ASP	710							
	L9439 ASP	↓							
	L9514 ASP	723							
08/02/00	L9525 N5	717	01:08	737	3741	6849	12441	56622	113961
08/02/00	L9500 cup	721	02:04	1262	4572	7987	11544	55357	111115
08/02/00	9496C	722	03:26	-61	3837	5064	9404	54472	111399
↓	L9546N5	↓	↓			↓			
08/02/00	L9546N5	718	04:41	733	1804	5311	10673	53216	108428
	L9399N5	725							
	L9553N5	↓							
	L9754N5	↓							
08/02/00	R1051		21:48	852	3272	4966	8455	51392	101989
↓	R1053		↓			↓			
08/03/00	R1054		10:34	-850	2631	5137	11812	52398	107718
	R1055								
	L9514 ASP	720							
	L9543 ASP	↓							
	L9608N5	725							
	L9613N5	↓							

00038

MERCURY_ANALYSIS2.XLS

REV 2/2000

000025

PAGE #_____

CHEMTECH 205 Campus Plaza I, Edison, New Jersey 08837

MERCURY ANALYSIS LOGBOOK

SUPERVISOR REVIEW:

END TIME	CORR. COEF.	SLOPE X	CONC. B	ANALYST
16:05	.999748			Marked
				Marked
				Marked
				Marked
02:06	.999911			Marked
03:19	.999837			Marked
4:17	.999661			Marked
↓	↓			Marked
08:34	.999920			Marked
				Marked
				Marked
				Marked
				Marked
00:43	.999675			Marked
↓	↓			Marked
14:22	.999848			Marked
				Marked
				Marked
				Marked
				Marked
				Marked

MERCURY_ANALYSIS.XLS

REV 2/2000

PAGE # 000026

CHEMTECH EDISION,

MERCURY PREPARATION WORKSHEET

PROJECT NUMBER: R1054

SDG NUMBER: MANP27

METHOD NO: CVP

BALANCE CHECK:(0.20G): 0.20g

DATE: 08 / 02 /2000

PREP BATCH 0804CV

AUTOCLAVE BATH TEMP: 95 DEGREEC

DIGESTION TIME: 30 MIN

SUPERVISOR SIGNATURE:

ANALYST SIGNATURE:

Std. Name	mL. used	Std. Ref. # From Logbook	Chemical Used	Lot #
Working std.	1.0	S0779	KMNO4	S0731
ICV	1.0	S0787	K2S2O8	S0732
Spike Sol.	1.0	S0779	HNO3	S0733
control std	5.0	S0786	H2SO4	

Lab Sample Number	Client sample Number	Matrix	Sample wt/vol	Comment
Blank (0.0PPb)	S0	WATER	100	
Std 1 (0.2PPb)	S0.2	WATER	100	
Std 2 (0.5PPb)	S0.5	WATER	100	
Std 3 (1.0PPb)	S1.0	WATER	100	
Std 4 (5.0PPb)	S5.0	WATER	100	
Std 5 (10.0PPb)	S10.0	WATER	100	
ICV	ICV	WATER	100	
ICB	ICB	WATER	100	
CCV	5.0PPB	WATER	100	
CCB	CCB	WATER	100	
CRA	0.2PPB	WATER	100	
LCSS	LCSS	SOIL	0.20g	
PBS	PBS	SOIL	0.20mL	
R1054-05	MANP31	SOIL	0.21 g	
R1054-05D	MANP31D	SOIL	0.20 g	
R1054-05S	MANP31S	SOIL	0.20 g	
R1054-01	MANP27	SOIL	0.20 g	
R1054-02	MANP28	SOIL	0.21 g	
R1054-03	MANP29	SOIL	0.21 g	
R1054-04	MANP30	SOIL	0.20 g	
R1054-06	MANP32	SOIL	0.20 g	
R1054-07	MANP33	SOIL	0.21 g	
R1054-08	MANP34	SOIL	0.20 g	

REV 4/2000

0040

CHEMTECH EDISION,

MERCURY PREPARATION WORKSHEET

PROJECT NUMBER: R1054

PREP BATCH 0804CV

SDG NUMBER: MANP27

AUTOCLAVE BATH TEMP: 95 DEGREEC

METHOD NO: CVP

DIGESTION TIME: 30 MIN

BALANCE CHECK:(0.20G): 0.20 g

SUPERVISOR SIGNATURE: DM

DATE: 08/02 /2000

ANALYST SIGNATURE: [illegible]

Std. Name	mL. used	Std. Ref. # From Logbook	Chemical Used	Lot #
	See page 1 of 2			
			[illegible]	08102100

Lab Sample Number	Client sample Number	Matrix	Sample wt/vol	Comment
R1054-09	MANP35	SOIL	0.20 g	
R1054-10	MANP36	SOIL	0.21 g	
R1054-11	MANP41	SOIL	0.20 g	
R1054-12	MANP42	SOIL	0.20 g	
R1054-13	MANP43	SOIL	0.21 g	
R1054-14	MANP44	SOIL	0.20 g	
R1054-15	MANP45	SOIL	0.20 g	
R1054-16	MANP46	SOIL	0.22 g	
R1054-17	MANP47	SOIL	0.21 g	
R1054-18	MANP48	SOIL	0.20 g	
R1054-19	MANP49	SOIL	0.21 g	
R1054-20	MANP50	SOIL	0.22 g	
				[illegible] 08/02/00

REV 4/2000

0041

CHEMTECH EDISION,

MERCURY PREPARATION WORKSHEET

PROJECT NUMBER: R1055

PREP BATCH 0805CV

SDG NUMBER: MANP37

AUTOCLAVE BATH TEMP: 95 DEGREEC

METHOD NO: CVP

DIGESTION TIME: 30 MIN

BALANCE CHECK:(0.20G): 0.20 g

SUPERVISOR SIGNATURE: DM

DATE: 08/02 /2000

ANALYST SIGNATURE:

Std. Name	mL. used	Std. Ref. # From Logbook	Chemical Used	Lot #
Working std.	1.0	S0779	KMNO4	S0731
ICV	1.0	S0787	K2S2O8	S0732
Spike Sol.	1.0	S0779	HNO3	S0733
Control std	5.0	S0786	H2SO4	

Lab Sample Number	Client sample Number	Matrix	Sample wt/vol	Comment
Blank (0.0PP	S0	WATER	100	
Std 1 (0.2PP	S0.2	WATER	100	
Std 2 (0.5PP	S0.5	WATER	100	
Std 3 (1.0PP	S1.0	WATER	100	
Std 4 (5.0PP	S5.0	WATER	100	
Std 5 (10.0P	S10.0	WATER	100	
ICV		WATER	100	
ICB		WATER	100	
CCV	5.0PPB	WATER	100	
CCB		WATER	100	
CRA	0.2PPB	WATER	100	
LCSS	LCSS	SOIL	0.20 g	
PBS	PBS	SOIL	0.20 mL	
R1055-16	MANP62	SOIL	0.20 g	
R1055-16D	MANP62D	SOIL	0.20 g	
R1055-16S	MANP62S	SOIL	0.20 g	
R1055-01	MANP37	SOIL	0.21 g	
R1055-02	MANP38	SOIL	0.22 g	
R1055-03	MANP39	SOIL	0.20 g	
R1055-04	MANP40	SOIL	0.22 g	
R1055-05	MANP51	SOIL	0.21 g	
R1055-06	MANP52	SOIL	0.22 g	
R1055-07	MANP53	SOIL	0.20 g	

REV 4/2000

0042

CHEMTECH EDISION,

MERCURY PREPARATION WORKSHEET

PROJECT NUMBER: R1055

SDG NUMBER: MANP37

METHOD NO: Cu P

BALANCE CHECK:(0.20G): 0.20 g

DATE: 08/02 /2000

PREP BATCH 0805CV

AUTOCLAVE BATH TEMP: 95 DEGREEC

DIGESTION TIME: 30 MIN

SUPERVISOR SIGNATURE: [illegible]

ANALYST SIGNATURE: [illegible]

Std. Name	mL. used	Std. Ref. # From Logbook	Chemical Used	Lot #
		See page 1 of 2		[illegible] 08/02/00

Lab Sample Number	Client sample Number	Matrix	Sample wt/vol	Comment
R1055-08	MANP54	SOIL		
R1055-09	MANP55	SOIL		
R1055-10	MANP56	SOIL		
R1055-11	MANP57	SOIL		
R1055-12	MANP58	SOIL		
R1055-13	MANP59	SOIL		
R1055-14	MANP60	SOIL		
R1055-15	MANP61	SOIL		
~~R1055-19~~	~~MANP10~~	~~SOIL~~		
PBW	PBW	WATER	100	[illegible] 08/02/00
R1055-17	MANP08	WATER	100	
R1055-18	MANP09	WATER	100	
				[illegible] 08/02/00

REV 4/2000

0043

CHEMTECH 205 CAMPUS PLAZA 1, Edison ,New Jersey 08837, 732-225-4111

MERCURY PREPARATION WORKSHEET

METHOD # Ce P

PROJECT #: 725, 720

AUTOCLAVE/ BATH TEMP: 95 °C

DIGESTETION TIME: 30 MIN

BALANCE CHECK : (0.20 G) 0.20 g

SUPERVISOR SIGNATURE: DM

DATE: 08/02 /2000

ANALYST SIGNATURE: [illegible]

STANDARD NAME	MLS USED	STD REF. # FROM LOG	CHEMICAL USED	LOT#
Hg WORKING STD.	1.0	S0779	5% $KMnO_4$	S0731
Hg ICV	1.0	S0787	5% $K_2S_2O_8$	S0732
SPIKE SOLUTION	1.0	S0779	1:2 HNO_3 + H_2SO_4	S0733
CONTROL STANDARD	5.0	S0786		

LAB SAMPLE NUMBER	CLIENT SAMPLE NUMBER	MATRIX WATER/SOIL/TCLP	SAMPLE WEIGHT(g)/VOL(mL)	COMMENTS
Blk 0.0 ppb	S0			
Std 1 0.2 ppb	S0.2			
Std 2 0.5 ppb	S0.5			
Std 3 1.0 ppb	S1.0			
Std 4 5.0 ppb	S5.0			
Std 5 10.0 ppb	S10.0			
ICV	ICV			
ICB	ICB			
CCV	CCV			
CCB	CCB			
CRA	CRA			
PBS	PBS	SOIL		
LCSS	LCSS	SOIL		
30469	HC-1A	SOIL	0.20 g	L 9514 ASP
30469 D	HC-1AD	SOIL	0.21 g	↓
30469S	HC-1AS	SOIL	0.21 g	↓
30470 ~~30469SD~~	HC-1B	SOIL	0.20 g	↓
30471 ~~30470~~	HC-5A	SOIL	0.20 g	↓
30472 ~~30471~~	HC-~~6A~~ 5B	SOIL	0.20 g	↓

MP 08/02/00 MP 8/02/00

REV. DATE 7/17/00 REV 1.0

HGPRE.DOC

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CHEMTECH 205 CAMPUS PLAZA 1, Edison ,New Jersey 08837, 732-225-4111

MERCURY PREPARATION WORKSHEET

METHOD # CLP

PROJECT #: 720, 725

AUTOCLAVE/ BATH TEMP: 95 °C

DIGESTETION TIME: 30/120 MIN

BALANCE CHECK : (0.20 G) 0.204

SUPERVISOR SIGNATURE: [illegible]

DATE: 08/02 /2000

ANALYST SIGNATURE: [illegible]

STANDARD NAME	MLS USED	STD REF. # FROM LOG	CHEMICAL USED	LOT#
Hg WORKING STD.	1.0		5% $KMnO_4$	
Hg ICV	1.0		5% $K_2S_2O_8$	
SPIKE SOLUTION			1:2 HNO_3 + H_2SO_4	
CONTROL STANDARD	5.0			[illegible] 08/04/00

LAB SAMPLE NUMBER	CLIENT SAMPLE NUMBER	MATRIX WATER/SOIL/TCLP	SAMPLE WEIGHT(g)/VOL(mL)	COMMENTS
30472 MB 08/02/00				L9514 1238
30473	HG-6A	SOIL	0.20 g	↓
30474	HG-6B	SOIL	0.21 g	↓
30803	JILF-MBV-SCRAPE DOWN #1	SOIL	0.20 g	L9543 CLP
30804	JILF-BBV-SCRAPE DOWN #2	SOIL	0.20 g	↓
~~31324~~	~~222222~~	~~SOIL~~	~~.60 g~~	~~L9608 NJ~~
31327	222222	SOIL	0.61 g	↓
31358	222222	SOIL	0.60 g	L9613 NJ
PBW	PBW	WATER	100 ml	
31329	222222	WATER	100 ml	L9608 NJ
31350	222222	WATER	100 ml	L9613 NJ
			PSP 8/2/00	

REV. DATE 7/17/00 REV 1.0
HGPRE.DOC

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CHEMTECH 205 Campus Plaza I, Edison, New Jersey 08837 (732) 225-4111

INORGANIC
STANDARD PREPATATION LOG

NAME	NO.	DATE	INITIALS
SnCl2	S0776	8/02/00	MP

FROM

100 g SnCl2 (X0014) + 100 ml conc. HCl (X0015) F.V. 1000 ml DI H2O = 1000 ml SnCl2

NAME	NO.	DATE	INITIALS
Hg Std Int.	S0777	8/02/00	MP

FROM

1.0 ml X0002 + 2 ml conc. HNO3 (X0017) F.V. 100 ml DI H2O = 10.0 mm Hg

NAME	NO.	DATE	INITIALS
Hg Control Int.	S0778	8/02/00	MP

FROM

1.0 ml X0003 + 2 ml conc. HNO3 (X0017) F.V. 100 ml DI H2O = 10.0 mm Hg

NAME	NO.	DATE	INITIALS
Hg Working Std	S0779	8/02/00	MP

FROM

10 ml S0777 + 2 ml conc. HNO3 (X0017) F.V. 100 ml DI H2O = 100 ppb Hg

0045

PREP3.CLS REV 1.1 PAGE #: 034

CHEMTECH 205 Campus Plaza I, Edison, New Jersey 08837 (732) 225-4111

INORGANIC
STANDARD PREPATATION LOG

NAME	NO.	DATE	INITIALS
Hg Control Working Std.	S0780	08/02/00	MP

FROM

1.0 ml S0778 + 2 ml conc. HNO3 (X0017) F.V. 100 ml DI H2O = 100 ppb Hg

NAME	NO.	DATE	INITIALS
Hg Std.	S0781	08/02/00	MP

FROM

0.2 ml
0.5 ml
1.0 ml
5.0 ml
10.0 ml

S0779 F.V. 100 ml DI H2O + Reagents =

0.2 ppb Hg
0.5 ppb Hg
1.0 ppb Hg
5.0 ppb Hg
10.0 ppb Hg

NAME	NO.	DATE	INITIALS
Hg Control Std. CCV	S0782	08/02/00	MP

FROM

5.0 ml S0780 F.V. 100 ml DI H2O + Reagents = 5.0 ppb Hg

NAME	NO.	DATE	INITIALS
Hg ICV	S0783	08/02/00	MP

FROM

1.0 ml X0004 + 2 ml conc. HNO3 (X0017) F.V. 100 ml DI H2O + Reagents = 4.1 ppb Hg

PREP3.CLS REV 1.1 PAGE #: 034

CHEMTECH 205 Campus Plaza I, Edison, New Jersey 08837 (732) 225-4111

INORGANIC
STANDARD PREPATATION LOG

NAME	NO.	DATE	INITIALS
Sncl2	S0784	~~08/02/00~~ 08/03/00 MP 8/2/00	MP

FROM

100g Sncl2 (X0014) + 100ml conc. HCl (X0018) $\xrightarrow[100\text{ml DI } H_2O]{F.V.}$ = 1000ml Sncl2

NAME	NO.	DATE	INITIALS
Hg Std	S0785	~~08/02/00~~ 08/03/00 MP 8/2/00	MP

FROM

0.2 ml, 0.5 ml, 1.0 ml, 5.0 ml, 10.0 ml } S0779 $\xrightarrow[100\text{ml DI } H_2O]{F.V.}$ + reagents = 0.2 ppb Hg, 0.5 ppb Hg, 1.0 ppb Hg, 5.0 ppb Hg, 10.0 ppb Hg

NAME	NO.	DATE	INITIALS
Hg Control Std	S0786	~~08/02/00~~ 08/03/00 MP 8/2/00	MP

FROM

5.0ml S0780 $\xrightarrow[100\text{ml DI } H_2O]{F.V.}$ + reagents = 5.0 ppb Hg

NAME	NO.	DATE	INITIALS
Hg ICV	S0787	~~08/02/00~~ 08/03/00 MP 8/2/00	MP

FROM

1.0ml X0004 + 2ml conc. HNO_3 (X0017) $\xrightarrow[100\text{ml DI } H_2O]{F.V.}$ + reagents = 4.1 ppb Hg

0047

PREP3.CLS REV 1.1 PAGE #: 035

CHEMTECH 205 Campus Plaza I, Edison, New Jersey 08837 (732) 225-4111

INORGANIC
STANDARD PREPATATION LOG

NAME	NO.	DATE	INITIALS
Sncl2	S0788	~~08/02/00~~ 08/03/00 MP	MP

FROM

100ml conc. HCl (X0018) + 100g Sncl2 (X0014) $\xrightarrow[100\text{ml DI } H_2O]{F.V.}$ = 1000ml Sncl2

NAME	NO.	DATE	INITIALS
Std. (Hg)	S0789	~~08/02/00~~ 08/03/00 MP 8/2/00	MP

FROM

0.2 ml, 0.5 ml, 1.0 ml, 5.0 ml, 10.0 ml } S0779 $\xrightarrow[100\text{ml DI } H_2O]{F.V.}$ + reagents = 0.2 ppb Hg, 0.5 ppb Hg, 1.0 ppb Hg, 5.0 ppb Hg, 10.0 ppb Hg

NAME	NO.	DATE	INITIALS
Hg Control Std.	S0790	~~08/02/00~~ 08/03/00 MP 8/2/00	MP

FROM

5.0ml S0780 $\xrightarrow[100\text{ml DI } H_2O]{F.V.}$ + reagents = 5.0 ppb Hg

NAME	NO.	DATE	INITIALS
Hg ICV	S0791	~~08/02/00~~ 08/03/00 MP 8/2/00	MP

FROM

1.0ml X0004 + 2ml conc. HNO_3 (X0017) $\xrightarrow[100\text{ml DI } H_2O]{F.V.}$ + reagents = 4.1 ppb Hg

X0004 MP 08/03/00

PREP3.CLS REV 1.1 PAGE #: 035

② L9543L ① L9542A
② L9543L

Chemtech Consulting Group 07/31/00 07:55

SAMPLES CHECKED OUT FOR % SOLIDS ANALYSIS BY NP
DATE 07/31/00 TIME 07:55 MATRIX SO BATCH NO. 105789

SAMPLE NUMBER	PROJ. NAME	SAMPLE ID	DATE SAMPLED	FRACTIONS OK	PREVIOUS A-BATCH NUMBER	ANALY TECH				
7 30380	L9509N	BS104-8	07/25/00	C	105760	NP 1	- NA	-		* NA
30550	L9527N	MC-33	07/28/00	C		2	1.05	11.37	10.07	* 87.4
30551	L9527N	MC-34	07/28/00	C		3	1.06	12.03	10.49	* 86.0
30552	L9527N	MC-35	07/28/00	C		4	1.03	11.44	8.72	* 73.9
30553	L9527N	MC-36	07/28/00	C		5	1.04	12.62	9.24	* 72.7
30554	L9527N	MC-37	07/28/00	C		6	1.00	10.76	8.62	* 78.1
30555	L9527N	MC-38	07/28/00	C		7	1.02	11.30	9.87	* 86.1
30556	L9527N	EC-1	07/28/00	C		8	1.00	KH 7/31/00 ~~10~~ 11.43	10.01	* 86.4
30557	L9527N	EC-2	07/28/00	C		9	1.04	11.01	9.11	* 80.9
30558	L9527N	EC-3	07/28/00	C		10	1.04	11.39	9.16	* 78.5
30559	L9527N	EC-4	07/28/00	C		11	1.02	11.97	10.02	* 82.2
30560	L9527N	CRS32-1	07/28/00	C		12	1.03	14.57	13.06	* 88.8
30561	L9527N	CRS32-2	07/28/00	C		13	1.04	12.69	11.66	* 91.2
30562	L9527N	CRS32-3	07/28/00	C		14	1.05	12.08	10.99	* 90.1
30563	L9527N	CRS32-4	07/28/00	C		15	1.04	9.82	6.72	* 64.7
30564	L9527N	CRS28-1	07/28/00	C		16	1.04	13.23	11.34	* 84.5
30565	L9527N	CRS28-2	07/28/00	C		17	1.00	14.89	12.26	* 81.1
30566	L9527N	CRS28-3	07/28/00	C		18	1.06	9.69	8.45	* 85.6
30567	L9527N	CRS28-4	07/28/00	C		19	1.03	11.04	9.82	* 87.8
30568	L9527N	CED33-1	07/28/00	C		20	1.05	13.03	10.88	* 81.1

SAMPLES CHECKED OUT FOR % SOLIDS ANALYSIS BY NP

DATE 07/31/00 TIME 07:55 MATRIX SO BATCH NO. 105789

SAMPLE NUMBER	PROJ. NAME	SAMPLE ID	DATE SAMPLED	FRACTIONS OK	PREVIOUS A-BATCH NUMBER	ANALY TECH				
30569	L9527N	CED33-2	07/28/00	C		21	1.03	12.45	9.44	* 73.6
30570	L9527N	CED33-3	07/28/00	C		22	1.03	11.23	8.41	* 72.4
30571	L9527N	CED33-4	07/28/00	C		23	1.06	13.10	9.68	* 71.6
30572	L9527N	CED35-1	07/28/00	C		24	1.04	10.28	5.98	* 53.5
30573	L9527N	CED35-2	07/28/00	C		25	1.06	16.29	14.56	* 88.6
30574	L9528N	CED35-3	07/28/00	C		26	1.04	13.05	9.10	* 67.1
30575	L9528N	CED35-4	07/28/00	C		27	1.07	12.91	10.81	* 82.3
30576	L9528N	HO11-1	07/28/00	C		28	1.03	13.80	11.84	* 84.[illegible]
30577	L9528N	HO11-2	07/28/00	C		29	1.04	12.84	10.99	* 84.3
30578	L9528N	HO11-3	07/28/00	C		30	1.04	14.18	11.81	* 84.0
30579	L9528N	HO11-4	07/28/00	C		31	1.08	14.87	12.45	* 82.5
30580	L9528N	HO13-1	07/28/00	C		32	1.03	10.01	8.14	* 79.2
30581	L9528N	HO13-2	07/28/00	C		33	1.03	12.32	10.32	* 82.3
30582	L9528N	HO13-3	07/28/00	C		34	1.04	12.03	10.11	* 82.5
30583	L9528N	HO13-4	07/28/00	C		35	1.05	14.69	13.02	* 87.8
30584	L9528N	HO16-1	07/28/00	C		36	1.02	12.29	9.74	* 77.4
30585	L9528N	HO16-2	07/28/00	C		37	1.02	13.86	10.81	* 76.2
30586	L9528N	HO16-3	07/28/00	C		38	1.04	10.92	9.41	* 84.7

SAMPLES CHECKED OUT FOR % SOLIDS ANALYSIS BY NP

DATE 07/31/00 TIME 07:55 MATRIX SO BATCH NO. 105789

SAMPLE NUMBER	PROJ. NAME	SAMPLE ID	DATE SAMPLED	FRACTIONS OK	PREVIOUS A-BATCH NUMBER	ANALY TECH				
30587	L9528N	HO16-4	07/28/00	C		39	1.03	11.41	8.92	* 78.0
30588	L9528N	HO18-1	07/28/00	C		40	1.02	10.34	8.22	* 77.3
30589	L9528N	HO18-2	07/28/00	C		41	1.05	13.93	12.91	* 92.1
30590	L9528N	HO18-3	07/28/00	C		42	1.04	9.87	7.99	* 78.1
30591	L9528N	HO18-4	07/28/00	C		43	1.04	12.45	11.08	* 88.0
30592	L9528N	HO19-1	07/28/00	C		44	1.02	14.89	12.22	* 80.7
30593	L9528N	HO19-2	07/28/00	C		45	1.01	13.73	10.79	* 78.9
30594	L9528N	HO19-3	07/28/00	C		46	1.05	11.28	7.97	* 67.6
30595	L9528N	HO19-4	07/28/00	C		47	1.03	11.92	11.02	* 91.7
30596	L9528N	HO21-1	07/28/00	C		48	1.07	12.35	9.90	* 78.3
30597	L9528N	HO21-2	07/28/00	C		49	1.03	13.53	10.70	* 77.4
30598	L9529N	HO21-3	07/28/00	C		50	1.03	11.77	10.24	* 85.8
30599	L9529N	HO21-4	07/28/00	C		51	1.02	15.91	12.67	* 78.2
30600	L9529N	HO21-5	07/28/00	C		52	1.05	12.19	9.25	* 73.6
30601	L9529N	HO21-6	07/28/00	C		53	1.02	13.27	10.06	* 73.8
30602	L9529N	HO21-7	07/28/00	C		54	1.04	10.51	8.51	* 78.9
30603	L9529N	PC6-1	07/28/00	C		55	1.00	11.08	9.82	* 87.5

SAMPLES CHECKED OUT FOR % SOLIDS ANALYSIS BY NP

DATE 07/31/00 TIME 07:55 MATRIX SO BATCH NO. 105789

SAMPLE NUMBER	PROJ. NAME	SAMPLE ID	DATE SAMPLED	FRACTIONS OK	PREVIOUS A-BATCH NUMBER	ANALY TECH				
30604	L9529N	PC6-2	07/28/00	C	56		1.02	10.40	9.53	% 90.7
30605	L9529N	PC6-3	07/28/00	C	57		1.03	11.06	10.05	% 89.9
30606	L9529N	PC6-4	07/28/00	C	58		1.01	12.32	10.53	% 84.2
30607	L9529N	PC6-5	07/28/00	C	59		1.04	10.25	9.19	% 88.5
30608	L9529N	PC6-6	07/28/00	C	60		1.08	10.61	9.21	% 85.3
30609	L9529N	PC6-7	07/28/00	C	61		1.03	10.22	9.30	% 90.0
30610	L9529N	PC36-1	07/28/00	C	62					% NA
30611	L9529N	PC36-2	07/28/00	C	63					% NA
30612	L9529N	PC36-3	07/28/00	C	64					% NA
30613	L9529N	PC36-4	07/28/00	C	65		NA			% NA
30614	L9529N	PC36-5	07/28/00	C	66					% NA
30615	L9529N	PC36-6	07/28/00	C	67					% NA
30616	L9529N	PC36-7	07/28/00	C	68					% NA
30617	L9529N	HA82-1	07/28/00	C	69		1.07	11.99	10.61	% 87.4
30618	L9529N	HA82-2	07/28/00	C	70		1.03	12.15	10.91	% 88.8
30619	L9529N	HA82-3	07/28/00	C	71		1.03	11.72	9.84	% 84.4
30620	L9529N	HA82-4	07/28/00	C	72		1.02	11.77	10.38	% 87.1

missing

SAMPLES CHECKED OUT FOR % SOLIDS ANALYSIS BY NP

DATE 07/31/00 TIME 07:55 MATRIX SO BATCH NO. 105789

SAMPLE NUMBER	PROJ. NAME	SAMPLE ID	DATE SAMPLED	FRACTIONS OK	PREVIOUS A-BATCH NUMBER	ANALY TECH				
30621	L9529N	HA82-5	07/28/00	C	73		1.02	12.52	11.01	* 86.9
30622	L9530N	HA82-6	07/28/00	C	74		1.04	11.38	10.04	* 87.0
30623	L9530N	HA82-7	07/28/00	C	75		1.03	11.65	10.90	* 92.9
30624	L9530N	HA86-1	07/28/00	C	76		1.06	13.34	11.83	* 86.3
30625	L9530N	HA86-2	07/28/00	C	77		1.04	12.80	10.47	* 80.2
30626	L9530N	HA86-3	07/28/00	C	78		1.03	12.31	10.01	* 79.6
30627	L9530N	HA86-4	07/28/00	C	79		1.03	13.57	11.46	* 83.2
30628	L9530N	HA121-1	07/28/00	C	80		1.07	9.93	9.01	* 89.6
30629	L9530N	HA121-2	07/28/00	C	81		1.05	11.38	9.89	* 85.6
30630	L9530N	HA121-3	07/28/00	C	82		1.03	13.30	11.65	* 86.6
30631	L9530N	HA121-4	07/28/00	C	83		1.03	14.68	13.52	* 91.5
30632	L9530N	HA238-1	07/28/00	C	84		1.03	14.72	13.61	* 91.9
30633	L9530N	HA238-2	07/28/00	C	85		1.01	10.40	9.51	* 90.5
30634	L9530N	HA238-3	07/28/00	C	86		1.02	12.19	11.85	* 97.0
30635	L9530N	HA238-4	07/28/00	C	87		1.02	14.40	13.58	* 93.9
30636	L9530N	HA242-1	07/28/00	C	88		1.02	13.08	11.90	* 90.2
30637	L9530N	HA242-2	07/28/00	C	89		1.05	13.95	12.69	* 90.2
30638	L9530N	HA242-3	07/28/00	C	90		1.03	14.90	13.56	* 90.3

SAMPLES CHECKED OUT FOR % SOLIDS ANALYSIS BY NP

DATE 07/31/00 TIME 07:55 MATRIX SO BATCH NO. 105789

SAMPLE NUMBER	PROJ. NAME	SAMPLE ID	DATE SAMPLED	FRACTIONS OK	PREVIOUS A-BATCH NUMBER	ANALY TECH				
30639	L9530N	HA242-4	07/28/00	C		91	1.05	12.32	11.30	% 90.9
30640	L9530N	HA250-1	07/28/00	C		92	1.03	11.48	10.52	% 90.8
30641	L9530N	HA250-2	07/28/00	C		93	1.07	10.90	10.36	% 93.9
30642	L9530N	HA250-3	07/28/00	C		94	1.02	11.36	10.86	% 95.2
30643	L9530N	HA250-4	07/28/00	C		95	1.02	12.11	11.70	% 96.3
30644	L9530N	HA250-5	07/28/00	C		96	1.05	14.76	13.78	% 92.9
30645	L9530N	HA250-6	07/28/00	C		97	1.01	13.85	10.50	% 73.9
30646	L9531N	SD-12-8	07/27/00	C		98	1.02	KH 7/31/00 ~~11.6~~ 9.96	9.08	% 90.2
30647	L9531N	SD-12-9	07/27/00	C		99	1.05	13.10	11.52	% 86.9
30648	L9531N	ND-68-1	07/27/00	C		100	1.07	10.05	9.71	% 96.2

Chemtech Consulting Group 07/31/00 07:56

SAMPLES CHECKED OUT FOR % SOLIDS ANALYSIS BY NP

DATE 07/31/00 TIME 07:56 MATRIX SO BATCH NO. 105790

SAMPLE NUMBER	PROJ. NAME	SAMPLE ID	DATE SAMPLED	FRACTIONS OK	PREVIOUS A-BATCH NUMBER	ANALY TECH				
30649	L9531N	ND-68-2	07/27/00	C		101	1.07	10.54	[9.57]	* 89.8
30650	L9531N	ND-68-3	07/27/00	C		102	1.06	13.45	11.86	* 87.2
30651	L9531N	ND-68-4	07/27/00	C		103	1.04	9.81	8.60	* 86.[illegible]
30652	L9531N	ND-78-1	07/27/00	C		104	1.03	13.18	11.70	* 87.8
30653	L9531N	ND-78-2	07/27/00	C		105	1.03	12.07	10.63	* 87.0
30654	L9531N	ND-78-3	07/27/00	C		106	1.01	11.19	7.04	* 59.2
30655	L9531N	ND-78-4	07/27/00	C		107	1.05	9.93	8.50	* 83.9
30656	L9531N	ND-82-1	07/27/00	C		108	1.05	14.28	11.73	* 80.7
30657	L9531N	ND-82-2	07/27/00	C		109	1.03	10.07	8.40	* 81.5
30658	L9531N	ND-82-3	07/27/00	C		110	1.02	9.99	7.50	* 72.2
30659	L9531N	ND-82-4	07/27/00	C		111	1.05	10.78	8.95	* 81.2
30660	L9531N	ND-96-1	07/27/00	C		112	1.06	13.45	11.93	* 87.7
30661	L9531N	ND-96-2	07/27/00	C		113	1.04	13.80	12.11	* 86.8
30662	L9531N	ND-96-3	07/27/00	C		114	1.02	11.58	9.62	* 81.4
30663	L9531N	ND-96-4	07/27/00	C		115	1.06	13.15	11.64	* 87.5
? 30664	L9531N	ND-96-5	07/27/00	C		116	NA	-		* NA
? 30665	L9531N	ND-96-6	07/27/00	C		117		-		* NA
30666	L9531N	ND-86-1	07/27/00	C		118	1.04	10.85	9.22	* 83.[illegible]
30667	L9531N	ND-86-2	07/27/00	C		119	1.02	10.04	8.02	* 77.[illegible]
30668	L9531N	ND-86-3	07/27/00	C		120	1.02	11.26	9.76	* 85.[illegible]

SAMPLES CHECKED OUT FOR % SOLIDS ANALYSIS BY NP

DATE 07/31/00 TIME 07:56 MATRIX SO BATCH NO. 105790

SAMPLE NUMBER	PROJ. NAME	SAMPLE ID	DATE SAMPLED	FRACTIONS OK	PREVIOUS A-BATCH NUMBER	ANALY TECH				
30669	L9531N	ND-86-4	07/27/00	C	121		1.07	12.21	10.92	* 88.4
30670	L9532N	ND90-1	07/27/00	C	122		1.02	10.07	8.25	* 79.9
30671	L9532N	ND90-2	07/27/00	C	123		1.03	10.54	8.48	* 78.3
30672	L9532N	ND90-3	07/27/00	C	124		1.02	15.58	11.67	* 73.1
30673	L9532N	ND90-4	07/27/00	C	125		1.06	10.23	8.04	* 76.1
30674	L9532N	SOD91-1	07/27/00	C	126		1.02	9.68	8.02	* 80.8
30675	L9532N	SOD91-2	07/27/00	C	127		1.02	15.66	12.98	* 81.7
30676	L9532N	SOD91-3	07/27/00	C	128		1.04	12.13	9.87	* 79.6
30677	L9532N	SOD91-4	07/27/00	C	129		1.03	10.91	9.41	* 84.8
30678	L9532N	SOD87-1	07/27/00	C	130		1.03	12.07	10.05	* 81.7
30679	L9532N	SOD87-2	07/27/00	C	131		1.02	12.88	10.96	* 83.8
30680	L9532N	SOD87-3	07/27/00	C	132		1.07	14.72	12.84	* 86.2
30681	L9532N	SOD87-4	07/27/00	C	133		1.04	11.07	9.79	* 87.2
30682	L9532N	SOD87-5	07/27/00	C	134		1.05	10.15	8.99	* 87
30683	L9532N	SOD83-1	07/27/00	C	135		1.06	11.43	9.72	* 83.
30684	L9532N	SOD83-2	07/27/00	C	136		1.02	11.60	9.89	* 83.8
30685	L9532N	SOD83-3	07/27/00	C	137		1.06	15.53	13.01	* 81.6
30686	L9532N	SOD83-4	07/27/00	C	138		1.05	11.78	9.44	* 78.2

SAMPLES CHECKED OUT FOR % SOLIDS ANALYSIS BY NP

DATE 07/31/00 TIME 07:56 MATRIX SO BATCH NO. 105790

SAMPLE NUMBER	PROJ. NAME	SAMPLE ID	DATE SAMPLED	FRACTIONS OK	PREVIOUS A-BATCH NUMBER	ANALY TECH				
30687	L9532N	SOD79-1	07/27/00	C	139		1.03	9.68	4.59	* 41.2
30688	L9532N	SOD79-2	07/27/00	C	140		1.06	11.91	10.28	* 85.0
30689	L9532N	SOD79-3	07/27/00	C	141		1.04	12.53	9.26	* 71.5
30690	L9532N	SOD79-4	07/27/00	C	142		1.04	13.07	11.29	* 85.2
30691	L9532N	SOD75-1	07/27/00	C	143		1.01	9.50	8.14	* 84.0
30692	L9532N	SOD75-2	07/27/00	C	144		1.03	15.34	13.47	* 86.9
30693	L9532N	SOD75-3	07/27/00	C	145		1.05	11.84	9.75	* 80.6
30694	L9533N	SOD75-4	07/27/00	C	146		1.01	10.26	8.41	* 81.0
30695	L9533N	SOD71-1	07/27/00	C	147		1.01	10.87	9.78	* 88.9
30696	L9533N	SOD71-2	07/27/00	C	148		1.04	10.76	9.23	* 84.3
30697	L9533N	SOD71-3	07/27/00	C	149		1.06	13.99	12.15	* 85.8
30698	L9533N	SOD71-4	07/27/00	C	150		1.06	13.44	11.97	* 88.1
30699	L9533N	SOD71-5	07/27/00	C	151		1.06	13.90	12.38	* 88.2
30700	L9533N	SOD67-1	07/27/00	C	152		1.05	9.67	8.31	* 84.[illegible]
30701	L9533N	SOD67-2	07/27/00	C	153		1.06	14.64	12.43	* 85.9
30702	L9533N	SOD67-3	07/27/00	C	154		1.04	11.75	10.64	* ~~83~~ 89.
30703	L9533N	SOD67-4	07/27/00	C	155		1.03	13.85	11.58	* 82.[illegible]

00567 7/31/00

SAMPLES CHECKED OUT FOR % SOLIDS ANALYSIS BY NP

DATE 07/31/00 TIME 07:56 MATRIX SO BATCH NO. 105790

SAMPLE NUMBER	PROJ. NAME	SAMPLE ID	DATE SAMPLED	FRACTIONS OK	PREVIOUS A-BATCH NUMBER	ANALY TECH				
30704	L9533N	SOD63-1	07/27/00	C	156		1.04	15.19	13.62	* 88.
30705	L9533N	SOD63-2	07/27/00	C	157		1.02	10.66	8.86	* 81.3
30706	L9533N	SOD63-3	07/27/00	C	158		1.03	14.72	13.44	* 90.7
30707	L9533N	SOD63-4	07/27/00	C	159		1.07	14.01	11.28	* 78.[illegible]
30708	L9533N	SOD59-1	07/27/00	C	160		1.06	12.44	10.65	* 84.[illegible]
30709	L9533N	SOD59-2	07/27/00	C	161		1.03	10.28	9.22	* 88.5
30710	L9533N	SOD59-3	07/27/00	C	162		1.06	11.11	9.95	* 88.[illegible]
30711	L9533N	SOD59-4	07/27/00	C	163		1.06	11.22	10.13	* 89.[illegible]
30712	L9533N	SOD43-1	07/27/00	C	164		1.05	10.24	9.34	* 91.2
30713	L9533N	SOD43-2	07/27/00	C	165		1.05	13.05	11.83	* 89.[illegible]
30714	L9533N	SOD43-3	07/27/00	C	166		1.07	10.14	9.73	* 95.[illegible]
30715	L9533N	SOD43-4	07/27/00	C	167		1.03	12.93	12.10	* 93.0
30716	L9533N	SOD18-1	07/27/00	C	168		1.06	11.38	10.46	* 91.1
30717	L9533N	SOD18-2	07/27/00	C	169		1.07	12.73	11.12	* 86.2
30718	L9534N	SDD18-3	07/27/00	C	170		1.06	10.30	8.53	* 80.8
30719	L9534N	SDD18-4	07/27/00	C	171		1.07	10.40	9.06	* 85.6
30720	L9534N	BS35-1	07/27/00	C	172		1.03	13.32	11.99	* 89.2

SAMPLES CHECKED OUT FOR % SOLIDS ANALYSIS BY NP

DATE 07/31/00 TIME 07:56 MATRIX SO BATCH NO. 105790

SAMPLE NUMBER	PROJ. NAME	SAMPLE ID	DATE SAMPLED	FRACTIONS OK	PREVIOUS A-BATCH NUMBER	ANALY TECH				
30721	L9534N	BS35-2	07/27/00	C	173		1.06	14.77	12.91	* 86.4
30722	L9534N	BS35-3	07/27/00	C	174		1.02	13.44	11.59	* 85.1
30723	L9534N	BS35-4	07/27/00	C	175		1.02	14.02	12.37	* 87.3
30724	L9534N	BS79-1	07/27/00	C	176		1.07	12.36	10.92	* 87.2
30725	L9534N	BS79-2	07/27/00	C	177		1.04	13.98	13.03	* 92.7
30726	L9534N	BS79-3	07/27/00	C	178		1.04	12.62	11.02	* 86.2
30727	L9534N	BS79-4	07/27/00	C	179		1.06	12.01	10.74	* 88.4
30728	L9534N	OS145-1	07/27/00	C	180A		1.05	10.89	9.91	* 90.0
30729	L9534N	OS145-2	07/27/00	C	180		1.05	KH 7/31/00 ~~10.89~~	1.71 9.84	* 82.5
30730	L9534N	OS145-3	07/27/00	C	181		1.06	13.69	11.64	* 83.8
30731	L9534N	OS145-4	07/27/00	C	182		1.03	13.21	12.05	* 90.5
30732	L9534N	OS134-1	07/27/00	C	183		1.06	12.25	11.04	* 89.2
30733	L9534N	OS134-2	07/27/00	C	184		1.07	11.22	9.43	* 82.4
30734	L9534N	OS134-3	07/27/00	C	185		1.04	10.55	8.26	* 75.9
30735	L9534N	OS134-4	07/27/00	C	186		1.06	10.54	9.49	* 88.[illegible]
30736	L9534N	CHS180-1	07/27/00	C	187		1.05	14.64	13.39	* 90.[illegible]
30737	L9534N	CHS180-2	07/27/00	C	188		1.02	12.23	10.50	* 84.6
30738	L9534N	CHS180-3	07/27/00	C	189		1.04	14.12	13.02	* 91.6

SAMPLES CHECKED OUT FOR % SOLIDS ANALYSIS BY NP

DATE 07/31/00 TIME 07:56 MATRIX SO BATCH NO. 105790

SAMPLE NUMBER	PROJ. NAME	SAMPLE ID	DATE SAMPLED	FRACTIONS OK	PREVIOUS A-BATCH NUMBER	ANALY TECH				
30739	L9534N	CHS180-4	07/27/00	C		19°	1.03	14.17	12.86	* 90.0

Chemtech Consulting Group 07/31/00 15:08

SAMPLES CHECKED OUT FOR % SOLIDS ANALYSIS BY KH
DATE 07/31/00 TIME 15:08 MATRIX SO BATCH NO. 105811

SAMPLE NUMBER	PROJ. NAME	SAMPLE ID	DATE SAMPLED	FRACTIONS OK	PREVIOUS A-BATCH NUMBER	ANALY TECH				
30782	L9537N	SD40-1	07/26/00	C	105810	KH 191	1.06	10.70	9.68	% 89.4
30783	L9537N	SD40-2	07/26/00	C	105810	KH 192	1.05	14.24	13.46	% 94.1
30784	L9537N	SD40-3	07/26/00	C	105810	KH 193	1.06	11.12	10.35	% 92.3
30785	L9537N	SD40-4	07/26/00	C	105810	KH 194	1.03	11.41	9.94	% 85.9

Chemtech Consulting Group 07/31/00 15:46

SAMPLES CHECKED OUT FOR % SOLIDS ANALYSIS BY NP

DATE 07/31/00 TIME 15:46 MATRIX SO BATCH NO. 105819

SAMPLE NUMBER	PROJ. NAME	SAMPLE ID	DATE SAMPLED	FRACTIONS OK	PREVIOUS A-BATCH NUMBER	ANALY TECH				
30793	L9539N	341-B8-TO-341-D 8	07/28/00	C	195		1.06	12.13	9.68	% 77.9
30794	L9539N	361-B7-TO-361-E 7	07/28/00	C	196		1.06	10.58	8.39	% 77.0
30795	L9539N	252-B1-TO-252-D 1	07/28/00	C	197		1.04	10.17	7.98	% 76.0
30796	L9539N	104-C6-TO-104-D 6	07/28/00	C	198		1.07	10.55	9.00	% 83.6

L9543L

SAMPLES CHECKED OUT FOR % SOLIDS ANALYSIS BY KH
DATE 07/31/00 TIME 16:44 MATRIX SO BATCH NO. 105823

SAMPLE NUMBER	PROJ. NAME	SAMPLE ID	DATE SAMPLED	FRACTIONS OK	PREVIOUS A-BATCH NUMBER	ANALY TECH				
30800	L9542A	SD6-SP-3	07/28/00	C	199		1.04	13.07	9.63	* 74.4
30801	L9542A	SD6-SP-3	07/28/00	C	200		1.05	13.89	11.20	* 79.2
30802	L9542A	SD6-SP-3	07/28/00	C	201		1.06	11.57	9.33	* 78.7
30803	L9543L	JILF-MBV-SCRAPE DOWN#1	07/30/00	C	202		1.03	11.53	10.45	* 89.7
30804	L9543L	JILF-MBV-SCRAPE DOWN#2	07/30/00	C	203		1.01	11.14	10.70	* 95.6

REPORT OF CONFIRMATION OF ANALYTICAL BATCH NO. 105789
CONFIRMED BY HCP 08/01/00 TIME 08:57

SAMPLE NUMBER	CLIENT NUMBER	SAMPLE ID	ANALYSIS	RESULT	UNITS	DET. LIMIT	QUAL-IFIER	NEW STAT
30550	1767	MC-33	% SOLIDS	87.4	%			F
30551	1767	MC-34	% SOLIDS	86.0	%			F
30552	1767	MC-35	% SOLIDS	73.9	%			F
30553	1767	MC-36	% SOLIDS	72.7	%			F
30554	1767	MC-37	% SOLIDS	78.1	%			F
30555	1767	MC-38	% SOLIDS	86.1	%			F
30556	1767	EC-1	% SOLIDS	86.4	%			F
30557	1767	EC-2	% SOLIDS	80.9	%			F
30558	1767	EC-3	% SOLIDS	78.5	%			F
30559	1767	EC-4	% SOLIDS	82.2	%			F
30560	1767	CRS32-1	% SOLIDS	88.8	%			F
30561	1767	CRS32-2	% SOLIDS	91.2	%			F
30562	1767	CRS32-3	% SOLIDS	90.1	%			F
30563	1767	CRS32-4	% SOLIDS	64.7	%			F
30564	1767	CRS28-1	% SOLIDS	84.5	%			F
30565	1767	CRS28-2	% SOLIDS	81.1	%			F
30566	1767	CRS28-3	% SOLIDS	85.6	%			F
30567	1767	CRS28-4	% SOLIDS	87.8	%			F
30568	1767	CED33-1	% SOLIDS	82.1	%			F
30569	1767	CED33-2	% SOLIDS	73.6	%			F
30570	1767	CED33-3	% SOLIDS	72.4	%			F
30571	1767	CED33-4	% SOLIDS	71.6	%			F
30572	1767	CED35-1	% SOLIDS	53.5	%			F
30573	1767	CED35-2	% SOLIDS	88.6	%			F
30574	1767	CED35-3	% SOLIDS	67.1	%			F
30575	1767	CED35-4	% SOLIDS	82.3	%			F
30576	1767	HO11-1	% SOLIDS	84.7	%			F
30577	1767	HO11-2	% SOLIDS	84.3	%			F
30578	1767	HO11-3	% SOLIDS	82.0	%			F
30579	1767	HO11-4	% SOLIDS	82.5	%			F
30580	1767	HO13-1	% SOLIDS	79.2	%			F
30581	1767	HO13-2	% SOLIDS	82.3	%			F
30582	1767	HO13-3	% SOLIDS	82.5	%			F
30583	1767	HO13-4	% SOLIDS	87.8	%			F
30584	1767	HO16-1	% SOLIDS	77.4	%			F
30585	1767	HO16-2	% SOLIDS	76.2	%			F
30586	1767	HO16-3	% SOLIDS	84.7	%			F
30587	1767	HO16-4	% SOLIDS	76.0	%			F
30588	1767	HO18-1	% SOLIDS	77.3	%			F
30589	1767	HO18-2	% SOLIDS	92.1	%			F
30590	1767	HO18-3	% SOLIDS	78.1	%			F
30591	1767	HO18-4	% SOLIDS	88.0	%			F
30592	1767	HO19-1	% SOLIDS	80.7	%			F
30593	1767	HO19-2	% SOLIDS	76.9	%			F

REPORT OF CONFIRMATION OF ANALYTICAL BATCH NO. 105789
CONFIRMED BY HCP 08/01/00 TIME 08:57

SAMPLE NUMBER	CLIENT NUMBER	SAMPLE ID	ANALYSIS	RESULT	UNITS	DET. LIMIT	QUAL-IFIER	NEW STAT
30594	1767	HO19-3	% SOLIDS	67.6	%			F
30595	1767	HO19-4	% SOLIDS	91.7	%			F
30596	1767	HO21-1	% SOLIDS	78.3	%			F
30597	1767	HO21-2	% SOLIDS	77.4	%			F
30598	1767	HO21-3	% SOLIDS	85.8	%			F
30599	1767	HO21-4	% SOLIDS	78.2	%			F
30600	1767	HO21-5	% SOLIDS	73.6	%			F
30601	1767	HO21-6	% SOLIDS	73.8	%			F
30602	1767	HO21-7	% SOLIDS	78.9	%			F
30603	1767	PC6-1	% SOLIDS	87.5	%			F
30604	1767	PC6-2	% SOLIDS	90.7	%			F
30605	1767	PC6-3	% SOLIDS	89.9	%			F
30606	1767	PC6-4	% SOLIDS	84.2	%			F
30607	1767	PC6-5	% SOLIDS	88.5	%			F
30608	1767	PC6-6	% SOLIDS	85.3	%			F
30609	1767	PC6-7	% SOLIDS	90.0	%			F
30617	1767	HA82-1	% SOLIDS	87.4	%			F
30618	1767	HA82-2	% SOLIDS	88.8	%			F
30619	1767	HA82-3	% SOLIDS	82.4	%			F
30620	1767	HA82-4	% SOLIDS	87.1	%			F
30621	1767	HA82-5	% SOLIDS	86.9	%			F
30622	1767	HA82-6	% SOLIDS	87.0	%			F
30623	1767	HA82-7	% SOLIDS	92.9	%			F
30624	1767	HA86-1	% SOLIDS	86.3	%			F
30625	1767	HA86-2	% SOLIDS	80.2	%			F
30626	1767	HA86-3	% SOLIDS	79.6	%			F
30627	1767	HA86-4	% SOLIDS	83.2	%			F
30628	1767	HA121-1	% SOLIDS	89.6	%			F
30629	1767	HA121-2	% SOLIDS	85.6	%			F
30630	1767	HA121-3	% SOLIDS	86.6	%			F
30631	1767	HA121-4	% SOLIDS	91.5	%			F
30632	1767	HA238-1	% SOLIDS	91.9	%			F
30633	1767	HA238-2	% SOLIDS	90.5	%			F
30634	1767	HA238-3	% SOLIDS	97.0	%			F
30635	1767	HA238-4	% SOLIDS	93.9	%			F
30636	1767	HA242-1	% SOLIDS	90.2	%			F
30637	1767	HA242-2	% SOLIDS	90.2	%			F
30638	1767	HA242-3	% SOLIDS	90.3	%			F
30639	1767	HA242-4	% SOLIDS	90.9	%			F
30640	1767	HA250-1	% SOLIDS	90.8	%			F
30641	1767	HA250-2	% SOLIDS	93.9	%			F
30642	1767	HA250-3	% SOLIDS	95.2	%			F
30643	1767	HA250-4	% SOLIDS	96.3	%			F
30644	1767	HA250-5	% SOLIDS	92.9	%			F

REPORT OF CONFIRMATION OF ANALYTICAL BATCH NO. 105789
CONFIRMED BY HCP 08/01/00 TIME 08:57

SAMPLE NUMBER	CLIENT NUMBER	SAMPLE ID	ANALYSIS	RESULT	UNITS	DET. LIMIT	QUAL-IFIER	NEW STAT
30645	1767	HA250-6	% SOLIDS	73.9	%			F
30646	1767	SD-12-8	% SOLIDS	90.2	%			F
30647	1767	SD-12-9	% SOLIDS	86.9	%			F
30648	1767	ND-68-1	% SOLIDS	96.2	%			F

REPORT OF CONFIRMATION OF ANALYTICAL BATCH NO. 105790
CONFIRMED BY HCP 08/01/00 TIME 09:03

SAMPLE NUMBER	CLIENT NUMBER	SAMPLE ID	ANALYSIS	RESULT	UNITS	DET. LIMIT	QUAL-IFIER	NEW STAT
30649	1767	ND-68-2	% SOLIDS	89.8	%			F
30650	1767	ND-68-3	% SOLIDS	87.2	%			F
30651	1767	ND-68-4	% SOLIDS	86.2	%			F
30652	1767	ND-78-1	% SOLIDS	87.8	%			F
30653	1767	ND-78-2	% SOLIDS	87.0	%			F
30654	1767	ND-78-3	% SOLIDS	59.2	%			F
30655	1767	ND-78-4	% SOLIDS	83.9	%			F
30656	1767	ND-82-1	% SOLIDS	80.7	%			F
30657	1767	ND-82-2	% SOLIDS	81.5	%			F
30658	1767	ND-82-3	% SOLIDS	72.2	%			F
30659	1767	ND-82-4	% SOLIDS	81.2	%			F
30660	1767	ND-96-1	% SOLIDS	87.7	%			F
30661	1767	ND-96-2	% SOLIDS	86.8	%			F
30662	1767	ND-96-3	% SOLIDS	81.4	%			F
30663	1767	ND-96-4	% SOLIDS	87.5	%			F
30666	1767	ND-86-1	% SOLIDS	83.4	%			F
30667	1767	ND-86-2	% SOLIDS	77.6	%			F
30668	1767	ND-86-3	% SOLIDS	85.4	%			F
30669	1767	ND-86-4	% SOLIDS	88.4	%			F
30670	1767	ND90-1	% SOLIDS	79.9	%			F
30671	1767	ND90-2	% SOLIDS	78.3	%			F
30672	1767	ND90-3	% SOLIDS	73.1	%			F
30673	1767	ND90-4	% SOLIDS	76.1	%			F
30674	1767	SOD91-1	% SOLIDS	80.8	%			F
30675	1767	SOD91-2	% SOLIDS	81.7	%			F
30676	1767	SOD91-3	% SOLIDS	79.6	%			F
30677	1767	SOD91-4	% SOLIDS	84.8	%			F
30678	1767	SOD87-1	% SOLIDS	81.7	%			F
30679	1767	SOD87-2	% SOLIDS	83.8	%			F
30680	1767	SOD87-3	% SOLIDS	86.2	%			F
30681	1767	SOD87-4	% SOLIDS	87.2	%		7	F
30682	1767	SOD87-5	% SOLIDS	87.3	%			F
30683	1767	SOD83-1	% SOLIDS	83.5	%			F
30684	1767	SOD83-2	% SOLIDS	83.8	%			F
30685	1767	SOD83-3	% SOLIDS	82.6	%			F
30686	1767	SOD83-4	% SOLIDS	78.2	%			F
30687	1767	SOD79-1	% SOLIDS	41.2	%			F
30688	1767	SOD79-2	% SOLIDS	85.0	%			F
30689	1767	SOD79-3	% SOLIDS	71.5	%			F
30690	1767	SOD79-4	% SOLIDS	85.2	%			F
30691	1767	SOD75-1	% SOLIDS	84.0	%			F
30692	1767	SOD75-2	% SOLIDS	86.9	%			F
30693	1767	SOD75-3	% SOLIDS	80.6	%			F
30694	1767	SOD75-4	% SOLIDS	80.0	%			F

REPORT OF CONFIRMATION OF ANALYTICAL BATCH NO. 105790
CONFIRMED BY HCP 08/01/00 TIME 09:03

SAMPLE NUMBER	CLIENT NUMBER	SAMPLE ID	ANALYSIS	RESULT	UNITS	DET. LIMIT	QUAL-IFIER	NEW STAT
30695	1767	SOD71-1	% SOLIDS	88.9	%			F
30696	1767	SOD71-2	% SOLIDS	84.3	%			F
30697	1767	SOD71-3	% SOLIDS	85.8	%			F
30698	1767	SOD71-4	% SOLIDS	88.1	%			F
30699	1767	SOD71-5	% SOLIDS	88.2	%			F
30700	1767	SOD67-1	% SOLIDS	84.2	%			F
30701	1767	SOD67-2	% SOLIDS	83.7	%			F
30702	1767	SOD67-3	% SOLIDS	89.6	%			F
30703	1767	SOD67-4	% SOLIDS	82.3	%			F
30704	1767	SOD63-1	% SOLIDS	88.9	%			F
30705	1767	SOD63-2	% SOLIDS	81.3	%			F
30706	1767	SOD63-3	% SOLIDS	90.7	%			F
30707	1767	SOD63-4	% SOLIDS	78.9	%			F
30708	1767	SOD59-1	% SOLIDS	84.3	%			F
30709	1767	SOD59-2	% SOLIDS	88.5	%			F
30710	1767	SOD59-3	% SOLIDS	88.5	%			F
30711	1767	SOD59-4	% SOLIDS	89.3	%			F
30712	1767	SOD43-1	% SOLIDS	90.2	%			F
30713	1767	SOD43-2	% SOLIDS	89.8	%			F
30714	1767	SOD43-3	% SOLIDS	95.5	%			F
30715	1767	SOD43-4	% SOLIDS	93.0	%			F
30716	1767	SOD18-1	% SOLIDS	91.1	%			F
30717	1767	SOD18-2	% SOLIDS	86.2	%			F
30718	1767	SDD18-3	% SOLIDS	80.6	%			F
30719	1767	SDD18-4	% SOLIDS	85.6	%			F
30720	1767	BS35-1	% SOLIDS	89.2	%			F
30721	1767	BS35-2	% SOLIDS	86.4	%			F
30722	1767	BS35-3	% SOLIDS	85.1	%			F
30723	1767	BS35-4	% SOLIDS	87.3	%			F
30724	1767	BS79-1	% SOLIDS	87.2	%			F
30725	1767	BS79-2	% SOLIDS	92.7	%			F
30726	1767	BS79-3	% SOLIDS	86.2	%			F
30727	1767	BS79-4	% SOLIDS	88.4	%			F
30728	1767	OS145-1	% SOLIDS	90.0	%			F
30729	1767	OS145-2	% SOLIDS	82.5	%			F
30730	1767	OS145-3	% SOLIDS	83.8	%			F
30731	1767	OS145-4	% SOLIDS	90.5	%			F
30732	1767	OS134-1	% SOLIDS	89.2	%			F
30733	1767	OS134-2	% SOLIDS	82.4	%			F
30734	1767	OS134-3	% SOLIDS	75.9	%			F
30735	1767	OS134-4	% SOLIDS	88.9	%			F
30736	1767	CHS180-1	% SOLIDS	90.8	%			F
30737	1767	CHS180-2	% SOLIDS	84.6	%			F
30738	1767	CHS180-3	% SOLIDS	91.6	%			F

REPORT OF CONFIRMATION OF ANALYTICAL BATCH NO. 105790
CONFIRMED BY HCP 08/01/00 TIME 09:03

SAMPLE NUMBER	CLIENT NUMBER	SAMPLE ID	ANALYSIS	RESULT	UNITS	DET. LIMIT	QUAL-IFIER	NEW STAT
30739	1767	CHS180-4	% SOLIDS	90.0	%			F

REPORT OF CONFIRMATION OF ANALYTICAL BATCH NO. 105811
CONFIRMED BY SO 08/01/00 TIME 09:04

SAMPLE NUMBER	CLIENT NUMBER	SAMPLE ID	ANALYSIS	RESULT	UNITS	DET. LIMIT	QUAL-IFIER	NEW STAT
30782	1767	SD40-1	% SOLIDS	89.4	%			F
30783	1767	SD40-2	% SOLIDS	94.1	%			F
30784	1767	SD40-3	% SOLIDS	92.3	%			F
30785	1767	SD40-4	% SOLIDS	85.8	%			F

REPORT OF CONFIRMATION OF ANALYTICAL BATCH NO. 105819
CONFIRMED BY SO 08/01/00 TIME 09:04

SAMPLE NUMBER	CLIENT NUMBER	SAMPLE ID	ANALYSIS	RESULT	UNITS	DET. LIMIT	QUAL-IFIER	NEW STAT
30793	1500	341-B8-TO-341-D 8	% SOLIDS	77.9	%			F
30794	1500	361-B7-TO-361-E 7	% SOLIDS	77.0	%			F
30795	1500	252-B1-TO-252-D 1	% SOLIDS	76.0	%		0	F
30796	1500	104-C6-TO-104-D 6	% SOLIDS	83.0	%			F

REPORT OF CONFIRMATION OF ANALYTICAL BATCH NO. 105823
CONFIRMED BY HCP 08/01/00 TIME 09:05

SAMPLE NUMBER	CLIENT NUMBER	SAMPLE ID	ANALYSIS	RESULT	UNITS	DET. LIMIT	QUAL-IFIER	NEW STAT
30800	1931	SD6-SP-3	% SOLIDS	71.4	%			F
30801	1931	SD6-SP-3	% SOLIDS	79.2	%			F
30802	1931	SD6-SP-3	% SOLIDS	78.7	%			F
30803	1332	JILF-MBV-SCRAPE DOWN#1	% SOLIDS	89.7	%			F
30804	1332	JILF-MBV-SCRAPE DOWN#2	% SOLIDS	95.6	%			F

CHEMTECH CONSULTING GROUP

MISCELLANEOUS DATA

CHEMTECH 205 CAMPUS PLAZA I. RARITAN CENTER EDISON NEW JERSEY 08837

NEW JERSEY LAB ID#: 12013 . NEW YORK LAB ID#: 11376

METALS CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: L9543 MATRIX: soil

METHOD: CLP

		NA	NO	YES
1.	Calibration Summary meet criteria.			
2.	ICP Interference Check Sample Results Summary Submitted			✓
	(if applicable)/Meet criteriaBlank Contamination			✓
3.	Serial Dilution Summary Submitted (if applicable)/meet criteria	NA		✓
4.	Laboratory Control Sample Summary Submitted (if applicable)			✓
5.	Blank Contamination		✓	

If YES, list compounds and concentrations in each blank:

2.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside of the acceptance range:			✓
3.	Sample Duplicate Analysis Meet QC Criteria: If not met, list those compounds and their % differences which fall outside of the acceptance range: Hg – 155.8% – matrix interfer		✓	
4.	Extraction Holding Time Met (if not met, list number of days exceeded for each sample:			✓
4.	Analysis Holding Time Met If not met, list number of days exceeded for each sample:			✓

ADDITIONAL COMMENTS:

Debra Rogers — 8/4/00
~~Analyst~~ peer review — Date

Carol B. Dias — 8/9/00
QA REVIEW — Date

SHIPPING AND RECEIVING DOCUMENTATION

CHEMTECH
CHAIN OF CUSTODY RECORD

Please check one:

☐ 110 Route 4, Englewood, NJ 07631, (201) 567-6868, Fax (201) 567-1333

☒ 205 Campus Plaza 1, Edison, NJ 08837, (732) 225-4111, Fax (732) 225-4110

CHEMTECH JOB NO.: L 9543 LP

CHEMTECH QUOTE NO.:

CLIENT INFORMATION (REPORT TO BE SENT TO)

COMPANY: FOSTER WHEELER ENVIR CORP

ADDRESS: ONE OXFORD VALLEY SUITE 200

CITY: LANGHORNE STATE: PA ZIP: 19047

ATTENTION: CARL TIPPMAN

PHONE: 215-702-4000 FAX: 215-702-4000

PROJECT INFORMATION

PROJECT NAME: PORTSMOUTH NSY, ME

PROJECT NO.: 1284-0038

PROJECT MANAGER: CARL TIPPMAN

LOCATION: PORTSMOUTH NSY,

PHONE: — FAX: —

BILLING INFORMATION

BILL TO: FOSTER WHEELER PO #: 027959

ADDRESS:

CITY: LANGHORNE STATE: ZIP:

ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX: 5 DAY DAYS *

HARD COPY: DAYS *

EDD: DAYS *

* TO BE APPROVED BY CHEMTECH

** NORMAL TURNAROUND TIME - 14 DAYS

DATA DELIVERABLE INFORMATION

☐ RESULTS ONLY ☒ USEPA CLP

☐ RESULTS + QC ☐ NYS ASP "B"

☐ NJ REDUCED ☐ NYS ASP "A"

☐ NJ CLP ☐ EDD

☐ EDD FORMAT:

ANALYSIS

1 Dr Hg 2 Fol Tcl/Tacla 3 4 5 6 7 8 9

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	1	2	3	4	5	6	7	8	9	COMMENTS
1.	~~JILF-MBV-WC-SP02~~	SOIL	X	X			~~4~~	X		~~A~~	~~A~~						
2.	JILF-MBV-Scrapdown #1	soil	X	X				X									
3.	JILF-MBV-Scrapdown #2	soil	X	X				X									
4.																	
5.																	
6.																	
7.																	
8.																	

0075

PRESERVATIVES: A – HCl, B – HNO_3, C – H_2SO_4, D – NaOH, E – ICE, F – Other

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME	RECEIVED BY:
1. [signature]	7/27/00 1:20 pm	1.
RELINQUISHED BY: 2.	DATE/TIME:	RECEIVED BY: 2.
RELINQUISHED BY: 3.	DATE/TIME: 7/31/00 11 AM	RECEIVED FOR LAB BY: 3. [signature]

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non-Compliant ☐ Temp. of Cooler _____

Comments: ~~RUN TCLP ONLY AT DIRECTION OF FOSTER WHEELER~~ 5 DAY TAT

Page _____ of _____ Shipment Complete: Yes _____ No _____

Ver. 6/2000 WHITE – CHEMTECH COPY FOR RETURN TO CLIENT YELLOW – CHEMTECH COPY PINK – SAMPLER COPY

ORDER [illegible]

DHL WORLDWIDE EXPRESS

Shipment Airwaybill

1-800-CALL-DHL (Non negotiable) in USA only

WEB ADDRESS http://www.dhl.com

CHG
CHG

8042526321

Quote this shipment number in an inquiry

804 2526 321

ORIGIN [illegible] DESTINATION [illegible]

1 From (Shipper)

Your name

Your phone/fax/E-mail

Address
[illegible] 2nd
PORTSMOUTH NAVAL SHIPYARD
KITTERY ME

Zip/postal code/country
[illegible]

Phone/fax/E-mail
(207) 439-[illegible]

2 To (Recipient)

Company name
[illegible]MECH

Attention
SAMPLE RECEIPT

Delivery address
105 CAMPUS PLAZA 1
EDISON NJ

Zip/Postal code/country
08837

Phone/fax/E-mail
732-225-4111

3 Shipment details

Domestic Services
[X] USA OVERNIGHT

International Services
[ ] INTL DOCUMENT EXPRESS
[ ] WORLDWIDE PRIORITY EXPRESS
[ ] WORLDFREIGHT

WorldMail Services [ ] 1st class
[ ] Intl [ ] 2nd class [ ] Other

Special Services
[ ] SATURDAY DELIVERY
[ ] COD
[ ] OTHER

Payment Options and all options available to all countries
[X] Shipper's account
[ ] Recipient [ ] Third party

Acct. No.
[redacted]

Full description of contents
DOC

International non document shipments only
Attach original and four copies of a Commercial Invoice

Declared value for customs (In US $)

Export license No./Symbol (if applicable)

Harmonized Sched. B No. (if applicable)

Type of export (If left blank, Permanent is assumed)
[ ] Permanent
[ ] Temporary [ ] Repair/Return

Shipper's EIN/SSN

These commodities, technology or software were exported from the United States in accordance with the export administration regulations. Diversion contrary to U.S. law prohibited.

Destination duties/taxes (If left blank recipient pays duties/taxes)
[ ] Recipient [ ] Shipper [ ] Other
Specify destination approved account number

4 Pcs/Weight/Size

No. of pieces
1

Weight (If [illegible])
lb

Dimensions in inch
12 16 16
x x
Pieces length width height

DIMENSIONAL/CHARGED WEIGHT
lb

CODES CHARGES
Services

Special services

Insurance

Drop Box/ Exp. Center

TOTAL

TRANSPORT COLLECT STICKER No.

PICKED UP BY
[illegible]

Time
Date

5 Shipper's authorization and signature

Everyone agrees that DHL's standard terms apply to this shipment and limit DHL's liability for loss or damage to U.S. $ 100. The Warsaw Convention may also apply but reserved. I/we authorize DHL to complete other documents necessary to export this shipment. I/we understand that insurance is available on request for an extra charge. I/we agree to pay all charges if the recipient or third party does not pay. I/we understand that DHL DOES NOT TRANSPORT CASH.

Signature (Required)
[signature]

Date
7-16-00

DHL AIRWAYS, INC. • 333 TWIN DOLPHIN DRIVE, REDWOOD CITY, CA 94065

Recipient's Copy

AS/700 9/15/97

APPENDIX D

DISPOSAL DOCUMENTATION

Roll-Offs Containing

Soil, Concrete, and Original Drums

COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF HAZARDOUS MATERIALS
One Winter Street Boston, Massachusetts 02108

Please print or type. Form designed for use on elite (12-pitch) typewriter.

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: ME7170022019
Manifest Document No.: 00204
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

A. State Manifest Document Number: MAJ 650228
B. State Gen ID: SAME
C. State Trans. ID: 33405 MA.
D. Transporter's Phone: 508 384-6151
E. State Trans. ID:
F. Transporter's Phone:
G. State Facility's ID: NOT REQUIRED
H. Facility's Phone: 978 683-1002

3. Generator's Name and Mailing Address
PORTSMOUTH NAVAL SHIPYARD
CODE 106.02 SEAVEY ISLAND
KITTERY MAINE 03904
Generator's Phone: 207-438-3153

5. Transporter 1 Company Name: FRANKLIN ENVIRONMENTAL SYSTEM INC
6. US EPA ID Number: MAD034814134

7. Transporter 2 Company Name:
8. US EPA ID Number:

9. Designated Facility Name and Site Address
SAFETY-KLEEN (NE) INC
300CANAL STREET
LAWRENCE MASS 01840
10. US EPA ID Number: MAD000604447

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ, WASTE ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID N.O.S. (MERCURY) 9, UN3077, PGIII (D009)	001	CM	37480	P	D009
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above (Include physical state and hazard code.)
a. 4052-2 RCRA SOLIDS
b.
c.
d.

K. Handling Codes for Wastes Listed Above
a. S01
b.
c.
d.

15. Special Handling Instructions and Additional Information
98D6900 DC120 RDJ12015 EMERGENCY PHONE 1-207-474-2433

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Dennis G. Agnew
Signature: [signature]
Date: Month 07 Day 31 Year 00

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: DEC STEPHEN S. VINCI
Signature: Stephen S. Vinci
Date: Month 07 Day 31 Year 00

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Thomas Kawczynski
Signature: [signature]
Date: Month 07 Day 31 Year 00

Form Approved OMB No. 2050-0039 Expires 9-30-96
EPA Form 8700-22 (Rev. 9-88) Previous editions are obsolete.

In case of emergency or spill, immediately call the National Response Center (800) 424-8802.

COPY>3: FACILITY MAILS TO GENERATOR

CERTIFICATE OF DISPOSAL

SAFETY-KLEEN (NE), Inc.
221 Sutton Street; North Andover Ma, 01845

SAFETY-KLEEN (NE), Inc. hereby certifies that the following materials have been disposed on the dates and using the methods specified below:

I. Generator: PORTSMOUTH NAVAL SHIPYARD **SWO:** 119375A
Address: CODE 106.32 SEAVEY ISLAND
KITTERY, ME 03904

II. Manifest Number: MAJ650228
Date Received: 07/31/2000
Contract Number:
Delivery Number:

III. Waste Description	EPA Codes	In Amount	Out Amount
A. RQ hazardous waste, solid, n.o.s.	D009	37480.00 P	37480.00 P

IV. Dates of Disposition
A. 07/31/2000 **Loads:** 39512

V. Method of Disposition
A. PROCESSED FOR FUELS/TREATMENT/LANDFILL at SAFETY-KLEEN LTD. MAM532287 1A 37480.00P

This certification is your notice of the final disposition of the material listed above.

Cathy Olsen (Signature) compliance asst. (Title) 08/30/2000 (Date)

COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF HAZARDOUS MATERIALS
One Winter Street
Boston, Massachusetts 02108

#2

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator US EPA ID No. NE 7 1 7 0 0 2 2 0 1 9 — Manifest Document No. 0 0 1 9 4

2. Page 1 of 1 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
PORTSMOUTH NAVAL SHIPYARD
CODE 106.32 SEAVEY ISLAND
KITTERY MAINE 03904 207-438-5153

A. State Manifest Document Number: MA K006682

B. State Gen. ID: SAME

5. Transporter 1 Company Name: FRANKLIN ENVIRONMENTAL SYSTEM INC
6. US EPA ID Number: M A D 0 8 4 8 1 4 1 3 6
C. State Trans. ID: 37817 MA

7. Transporter 2 Company Name
8. US EPA ID Number
D. Transporter's Phone ( ) 508 389-6151
E. State Trans. ID

9. Designated Facility Name and Site Address
SAFETY-KLEEN (NE) INC
300CANAL STREET
LAWRENCE MASS 01840
10. US EPA ID Number: M A D 0 0 0 6 0 4 4 4 7
F. Transporter's Phone ( )
G. State Facility's ID: Not Required
H. Facility's Phone ( ) 978 683-1002

GENERATOR

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ, WASTE ENVIRONMENTALLY HAZARDOUS STUSTANCE, SOLID, N.O.S. (MERCURY) 9, UN3077, PGIII (D009)	0 0 1	C M	38760	P	D009
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above (Include physical state and hazard code.)
a. 4052-2-RCRA-SOLIDS
b.
c.
d.

K. Handling Codes for Wastes Listed Above
a. S01
b.
c.
d.

15. Special Handling Instructions and Additional Information
98D6508 DC120 ROJI2000 EMERGENCY PHONE 1-207-474-2496

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Denis Gagnon — Signature: Denis Gagnon — Date: Month 08 Day 07 Year 00

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Edward Harper — Signature: Edward Harper — Date: Month 08 Day 07 Year 00

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Eric Bohde — Signature — Date: Month Day Year

Form Approved OMB No. 2050-0039
EPA Form 8700-22 (Rev. 9-94) Previous editions are obsolete

COPY>3: FACILITY MAILS TO GENERATOR

In case of emergency or spill, immediately call the National Response Center (800) 424-8802.

CERTIFICATE OF DISPOSAL

SAFETY-KLEEN (NE), Inc.
221 Sutton Street; North Andover Ma, 01845

SAFETY-KLEEN (NE), Inc. hereby certifies that the following materials have been disposed on the dates and using the methods specified below:

I. Generator: PORTSMOUTH NAVAL SHIPYARD **SWO:** 119398C
Address: CODE 106.32 SEAVEY ISLAND
KITTERY, ME 03904

II. Manifest Number: MAK006682
Date Received: 08/09/2000
Contract Number:
Delivery Number:

III. Waste Description	EPA Codes	In Amount	Out Amount
A. RQ hazardous waste, solid, n.o.s.	D009	38760.00 P	38760.00 P

IV. Dates of Disposition
A. 08/09/2000 **Loads:** 39602

V. Method of Disposition
A. PROCESSED FOR FUELS/TREATMENT/LANDFILL at SAFETY-KLEEN LTD. MAM532378 1A 38760.00P

This certification is your notice of the final disposition of the material listed above.

Cathy Olson (Signature) Compliance asst (Title) 08/30/2000 (Date)

COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF HAZARDOUS MATERIALS
One Winter Street
Boston, Massachusetts 02108

#2

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator US EPA ID No. ME 7 1 7 0 0 2 2 0 1 9 Manifest Document No. 0 0 1 9 5

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
PORTSMOUTH NAVAL SHIPYARD
CODE 106.32 SEAVEY ISLAND KITTERY ME 03904

4. Generator's Phone (207) 438-5153

A. State Manifest Document Number: MA K006683

B. State Gen. ID: ~~DIL SAME~~ Same

5. Transporter 1 Company Name: FRANKLIN ENVIRONMENTAL SYSTEM INC

6. US EPA ID Number: M A D 0 8 4 8 1 4 1 3 6

C. State Trans. ID: 37879 MA

7. Transporter 2 Company Name

8. US EPA ID Number

D. Transporter's Phone (508) 389-6151

E. State Trans. ID

9. Designated Facility Name and Site Address
SAFETY-KLEEN
300 CANAL STREET
LAWRENCE MASS 01840

10. US EPA ID Number: M A D 0 0 0 6 0 4 4 4 7

F. Transporter's Phone ( )

G. State Facility's ID: Not Required

H. Facility's Phone (978) 683-1002

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ, WASTE ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID N.O.S. (MERCURY) 9, UN3077, PGIII (D009)	0 0 1	C	24460	P	D 0 0 9
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above (Include physical state and hazard code.)
a. 4052-2 RCRA COLIDS
c.
b.
d.

K. Handling Codes for Wastes Listed Above
a. S01
c.
b.
d.

15. Special Handling Instructions and Additional Information
98D6508 DC120 ROJI2001 EMERGENCY PHONE 1-207-474-2496

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Denis Gagnon
Signature: [signature]
Date: Month 08 Day 07 Year 00

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: DANIEL R CROAK
Signature: Daniel R Croak
Date: Month 08 Day 07 Year 00

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: RAYMOND WOOD
Signature: [signature]
Date: Month 08 Day 09 Year 00

GENERATOR
TRANSPORTER
FACILITY

In case of emergency or spill, immediately call the National Response Center (800) 424-8802.

Form Approved OMB No. 2050-0039
EPA Form 8700-22 (Rev. 9-94) Previous editions are obsolete

COPY>3: FACILITY MAILS TO GENERATOR

CERTIFICATE OF DISPOSAL

SAFETY-KLEEN (NE), Inc.
221 Sutton Street; North Andover Ma, 01845

SAFETY-KLEEN (NE), Inc. hereby certifies that the following materials have been disposed on the dates and using the methods specified below:

I. Generator: PORTSMOUTH NAVAL SHIPYARD SWO: 119398B
Address: CODE 106.32 SEAVEY ISLAND
KITTERY, ME 03904

II. Manifest Number: MAK006683
Date Received: 08/07/2000
Contract Number:
Delivery Number:

III. Waste Description	EPA Codes	In Amount	Out Amount
A. RQ hazardous waste, solid, n.o.s.	D009	24460.00 P	24460.00 P

IV. Dates of Disposition
A. 08/07/2000 **Loads:** 39598

V. Method of Disposition
A. PROCESSED FOR FUELS/TREATMENT/LANDFILL at SAFETY-KLEEN LTD. MAM532361 1A 24460.00P

This certification is your notice of the final disposition of the material listed above.

Cathy Clark (Signature) Compliance asst. (Title) 08/30/2000 (Date)

COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF HAZARDOUS MATERIALS
One Winter Street
Boston, Massachusetts 02108

#3

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

In case of emergency or spill, immediately call the National Response Center (800) 424-8802.

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator US EPA ID No.: ME7170022019 — Manifest Document No.: 00196
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
PORTSMOUTH NAVAL SHIPYARD
CODE 106.32 SEAVEY ISLAND
KITTERY MAINE 03904 207-438-5153

A. State Manifest Document Number: MA K006685
B. State Gen. ID: SAME

5. Transporter 1 Company Name: FRANKLIN ENVIRONMENTAL SYSTEM INC
6. US EPA ID Number: MAD084814136
C. State Trans. ID: 37879 MA

7. Transporter 2 Company Name
8. US EPA ID Number
D. Transporter's Phone: (508) 38986151
E. State Trans. ID

9. Designated Facility Name and Site Address
SAFETY-KLEEN (NE) INC
300 CANAL STREET
LAWRENCE MASS 01840
10. US EPA ID Number: MAD000604457
F. Transporter's Phone ( )
G. State Facility's ID: Not Required
H. Facility's Phone: (978) 683-1002

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ, WASTE ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID N.O.S. (MERCURY) 9, UN3077, PGIII (D009)	001	CM	32800	P	D009
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above (Include physical state and hazard code.)
4052-2 RCRA SOLIDS
b. c. d.

K. Handling Codes for Wastes Listed Above
a. S01 b. c. d.

15. Special Handling Instructions and Additional Information
68D6508 DC120 ROJI2002 EMERGENCY PHONE 1-207-474-2496

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Denis Gagnon — Signature: [signature] — Date (Month Day Year): 080900

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: DANIEL R CROAK — Signature: [signature] — Date (Month Day Year): 080900

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Date (Month Day Year):

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: [signature] — Signature: [signature] — Date (Month Day Year): 080900

GENERATOR — TRANSPORTER — FACILITY

Form Approved OMB No. 2050-0039
EPA Form 8700-22 (Rev. 9-94) Previous editions are obsolete

COPY>3: FACILITY MAILS TO GENERATOR

CERTIFICATE OF DISPOSAL

SAFETY-KLEEN (NE), Inc.
221 Sutton Street; North Andover Ma, 01845

SAFETY-KLEEN (NE), Inc. hereby certifies that the following materials have been disposed on the dates and using the methods specified below:

I. Generator: PORTSMOUTH NAVAL SHIPYARD SWO: 119375B
Address: CODE 106.32 SEAVEY ISLAND
KITTERY, ME 03904

II. Manifest Number: MAK006685
Date Received: 08/09/2000
Contract Number:
Delivery Number:

III. Waste Description	EPA Codes	In Amount	Out Amount
A. RQ hazardous waste, solid, n.o.s.	D009	32800.00 P	32800.00 P

IV. Dates of Disposition
A. 08/09/2000 **Loads:** 39605

V. Method of Disposition
A. PROCESSED FOR FUELS/TREATMENT/LANDFILL at SAFETY-KLEEN LTD. MAM532377 1A 32800.00P

This certification is your notice of the final disposition of the material listed above.

Cathy Olsen (Signature) Compliance asst. (Title) 08/30/2000 (Date)

COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF HAZARDOUS MATERIALS
One Winter Street
Boston, Massachusetts 02108

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator US EPA ID No. ME 7 1 7 0 0 2 2 0 1 9 Manifest Document No. 0 0 1 9 7

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
PORTSMOUTH NAVAL SHIPYARD
CODE 106.32 SEAVEY ISLAND
4. Generator's Phone KITTERY MAINE 03904 207-438-5163

A. State Manifest Document Number MA K006686
B. State Gen. ID SAME

5. Transporter 1 Company Name FRANKLIN ENVIRONMENTAL SYSTEM INC
6. US EPA ID Number MAD084814136
C. State Trans. ID 37877 MA

7. Transporter 2 Company Name
8. US EPA ID Number
D. Transporter's Phone (508) 389-6151
E. State Trans. ID

9. Designated Facility Name and Site Address
SAFETY-KLEEN (NE) INC
300 CANAL STREET
LAWRENCE MASS 01840
10. US EPA ID Number MAD000604447
F. Transporter's Phone ( )
G. State Facility's ID Not Required
H. Facility's Phone (978) 683-1002

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ, WASTE ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID N.O.S. (MERCURY) 9, UN3077, PGIII (D009)	001	CM	28440	P	D009
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above (Include physical state and hazard code.)
a. 4052-2 RCRA SOLIDS
b.
c.
d.

K. Handling Codes for Wastes Listed Above
a. S01
b.
c.
d.

15. Special Handling Instructions and Additional Information
98D65088 DC120 RQJI2003 EMERGENCY PHONE 1-207-474-2496

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

GENERATOR

Printed/Typed Name: Denis Gagnon
Signature
Date: Month 08 Day 07 Year 00

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Edward Harper
Signature: Edward Harper
Date: Month 08 Day 07 Year 00

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Raymond Wood
Signature
Date: Month 08 Day 19 Year 00

In case of emergency or spill, immediately call the National Response Center (800) 424-8802.

Form Approved OMB No. 2050-0039
EPA Form 8700-22 (Rev. 9-94) Previous editions are obsolete

COPY>3: FACILITY MAILS TO GENERATOR

CERTIFICATE OF DISPOSAL

SAFETY-KLEEN (NE), Inc.
221 Sutton Street; North Andover Ma, 01845

SAFETY-KLEEN (NE), Inc. hereby certifies that the following materials have been disposed on the dates and using the methods specified below:

I. Generator: PORTSMOUTH NAVAL SHIPYARD **SWO:** 119398
Address: CODE 106.32 SEAVEY ISLAND
KITTERY, ME 03904

II. Manifest Number: MAK006686
Date Received: 08/07/2000
Contract Number:
Delivery Number:

III. Waste Description	EPA Codes	In Amount	Out Amount
A. RQ hazardous waste, solid, n.o.s.	D009	28440.00 P	28440.00 P

IV. Dates of Disposition
A. 08/07/2000 **Loads:** 39597

V. Method of Disposition
A. PROCESSED FOR FUELS/TREATMENT/LANDFILL at SAFETY-KLEEN LTD. MAM532360 1A 28440.00P

This certification is your notice of the final disposition of the material listed above.

Cathy Olson (Signature) Compliance asst. (Title) 08/30/2000 (Date)

COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF HAZARDOUS MATERIALS
One Winter Street
Boston, Massachusetts 02108

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator US EPA ID No. ME7170021019 Manifest Document No. 001198
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
PORTSMOUTH NAVAL SHIPYARD
CODE 106.32 SEAVEY ISLAND
KITTERY MAINE 03904 207-438-5153

A. State Manifest Document Number MA K006688
B. State Gen. ID SAME

5. Transporter 1 Company Name: FRANKLIN ENVIRONMENTAL SYSTEM INC
6. US EPA ID Number: MAD084814136
C. State Trans. ID 37878 MA
D. Transporter's Phone (508) 389-6151

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Trans. ID
F. Transporter's Phone ( ) ~~508 389-6151~~ EL

9. Designated Facility Name and Site Address
SAFETY-KLEEN (NE) INC
300 CANAL STREET
LAWRENCE MASS 01840
10. US EPA ID Number: MAD000604447
G. State Facility's ID Not Required
H. Facility's Phone (978) 683-1002

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ, WASTE ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID N.O.S. (MERCURY) 9, UN3077, PGIII (D009)	001	CT	44520	P	D009
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above (Include physical state and hazard code.)
4052-2 RCRA SOLIDS
a. S; O/
b. c. d.

15. Special Handling Instructions and Additional Information
98D6508 DC120 ROJI2004 EMERGENCY PHONE 1-207-474-2496

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

GENERATOR — Printed/Typed Name: Denis Gagnon — Signature: [signature] — Date: Month 07 Day 31 Year 00

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Edward Harper — Signature: Edward Harper — Date: Month 07 Day 31 Year 00

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date: Month Day Year

TRANSPORTER

19. Discrepancy Indication Space
moved transporter's phone from section F to section D per Denis Gagnon

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

FACILITY — Printed/Typed Name: Dimaris Rampersaud — Signature: Dimaris Rampersaud — Date: Month 07 Day 31 Year 00

Form Approved OMB No. 2050-0039
EPA Form 8700-22 (Rev. 9-94) Previous editions are obsolete

COPY>3: FACILITY MAILS TO GENERATOR

In case of emergency or spill, immediately call the National Response Center (800) 424-8802.

CERTIFICATE OF DISPOSAL

SAFETY-KLEEN (NE), Inc.
221 Sutton Street; North Andover Ma, 01845

SAFETY-KLEEN (NE), Inc. hereby certifies that the following materials have been disposed on the dates and using the methods specified below:

I. Generator: PORTSMOUTH NAVAL SHIPYARD **SWO:** 119375
Address: CODE 106.32 SEAVEY ISLAND

KITTERY, ME 03904

II. Manifest Number: MAK006688
Date Received: 07/31/2000
Contract Number:
Delivery Number:

III. Waste Description	EPA Codes	In Amount	Out Amount
A. RQ hazardous waste, solid, n.o.s.	D009	44520.00 P	44520.00 P

IV. Dates of Disposition
A. 07/31/2000 **Loads:** 39511

V. Method of Disposition
A. PROCESSED FOR FUELS/TREATMENT/LANDFILL at SAFETY-KLEEN LTD. MAM532288 1A 44520.00P

This certification is your notice of the final disposition of the material listed above.

Cathy Olson — Compliance assistant — 08/30/2000
(Signature) (Title) (Date)

Page : 1

COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF HAZARDOUS MATERIALS
One Winter Street
Boston, Massachusetts 02108

#1

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator US EPA ID No. MR 7 1 7 0 0 2 2 6 1 | Manifest Document No. 9 9 1 9 9

2. Page 1 of 1 | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
PORTSMOUTH NAVAL SHIPYARD
CODE 106.32 SEAVEY ISLAND
KITTERY MAINE 03904 207-438-5153

A. State Manifest Document Number MA K006689
B. State Gen. ID SAME

5. Transporter 1 Company Name: FRANKLIN ENVIRONMENTAL SYSTEM INC
6. US EPA ID Number: M A D 0 8 4 8 1 4 1 3 6
C. State Trans. ID 133405MA
D. Transporter's Phone (508 389-6151)

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Trans. ID
F. Transporter's Phone ( )

9. Designated Facility Name and Site Address
SAFETY-KLEEN (NE) INC
300 CANAL STREET
LAWRENCE MASS 01840
10. US EPA ID Number: M A D 0 0 0 6 0 4 4 7
G. State Facility's ID: Not Required
H. Facility's Phone (978) 683-1002

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ, WASTE ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID N.O.S. (MERCURY) 9, UN3077, PGIII (D009)	001	CM	27180	P	D009
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above (include physical state and hazard code.)
a. 4052-2 RCRA SOLIDS
b.
c.
d.

K. Handling Codes for Wastes Listed Above
a. S01
b.
c.
d.

15. Special Handling Instructions and Additional Information
98D6508 DC120 ROJI2005 EMERGENCY PHONE 1-207-474-2496

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Denis Gagnon | Signature | Date Month Day Year: 080900

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: STEPHEN S. VINGI | Signature | Date Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Date Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name | Signature | Date Month Day Year

GENERATOR
TRANSPORTER
FACILITY

In case of emergency or spill, immediately call the National Response Center (800) 424-8802.

MA K006689 COPY>3: FACILITY MAILS TO GENERATOR

Form Approved OMB No. 2050-0039
EPA Form 8700-22 (Rev. 9-94) Previous editions are obsolete

COPY>3: FACILITY MAILS TO GENERATOR

CERTIFICATE OF DISPOSAL

SAFETY-KLEEN (NE), Inc.
221 Sutton Street; North Andover Ma, 01845

SAFETY-KLEEN (NE), Inc. hereby certifies that the following materials have been disposed on the dates and using the methods specified below:

I. Generator: PORTSMOUTH NAVAL SHIPYARD SWO: 119398A
Address: CODE 106.32 SEAVEY ISLAND
KITTERY, ME 03904

II. Manifest Number: MAK006689
Date Received: 08/09/2000
Contract Number:
Delivery Number:

III. Waste Description	EPA Codes	In Amount	Out Amount
A. RQ hazardous waste, solid, n.o.s.	D009	27180.00 P	27180.00 P

IV. Dates of Disposition
A. 08/09/2000 **Loads:** 39604

V. Method of Disposition
A. PROCESSED FOR FUELS/TREATMENT/LANDFILL at SAFETY-KLEEN LTD. MAM532376 1A 27180.00P

This certification is your notice of the final disposition of the material listed above.

Cathy Olson (Signature) Compliance asst (Title) 08/30/2000 (Date)

Drums Containing

Liquid Waste and Solid Waste

COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF HAZARDOUS MATERIALS
One Winter Street Boston, Massachusetts 02108

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: ME7170022019
Manifest Document No.: 04251
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
PORTSMOUTH NAVAL SHIPYARD
CODE 106.02 SEAVEY ISLAND
KITTERY ME 03906-5000

A. State Manifest Document Number: MAJ 650499
B. State Gen ID: SAM-4

4. Generator's Phone ( ) 2071385153

5. Transporter 1 Company Name: [illegible] (TCI), INC.
6. US EPA ID Number: SCD000748591
C. State Transp ID: MA25819

7. Transporter 2 Company Name
8. US EPA ID Number
D. Transporter's Phone ( )
E. State Transp ID

9. Designated Facility Name and Site Address
SUPERFUND (MA), INC
300 CANAL STREET
LAWRENCE MA 01840
10. US EPA ID Number: MAD000604447
F. Transporter's Phone ( )
G. State Facility's ID: NOT REQUIRED
H. Facility's Phone (978) 623-1002

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Waste No.
a. [illegible] WASTE CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (MERCURY, SELENIUM) 8 UN3264 PGII (D002 D009 D011)	2	DM	840	P	D002
b. [illegible] WASTE CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (MERCURY, SELENIUM) 8 UN3264 PGII (D002 D009 D011)	1	DM	924	P	D002
c. [illegible] WASTE CORROSIVE ACIDIC LIQUID, N.O.S. (SODIUM BISULFATE, POTASSIUM BISULFATE) 8 UN3264 PGII (D002 D003 D005)	5	LB	2325	P	D002
d. [illegible] CORROSIVE LIQUID BASIC, INORGANIC N.O.S. (MERCURY, LEAD) 8 UN3266 PGII (D002 D008 D011)	(EC) 5	[illegible]	1[illegible] (EC) 11065	P	D002

J. Additional Descriptions for Materials Listed Above (Include any special state and hazard codes)
a. 11A (D009) ERG 154
c. 11C (D009) ERG 154
b. 11B (D009) ERG 154
d. 11D (D009A) ERG 154

K. Handling Codes for Wastes Listed Above
a. | b. | c. | d.

15. Special Handling Instructions and Additional Information
EMERGENCY PHONE 1-800-424-8802
EMERGENCY PHONE 1-207-475-2196

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Denis L. Gagnon
Signature: [signature]
Date: Month 08 Day 30 Year 00

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: CHRIS CLARKE
Signature: Chris Clarke
Date: Month 08 Day 30 Year 00

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space: change made to 13a, 13c
Drum moved from 650260 to 650499 per Denis Gagnon 9/5/00 (EC)
Drum moved from MAJ 650260 to MAJ 650499 per Denis Gagnon 9/5/00

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Brigitta E Peterson
Signature: [signature]
Date: Month 08 Day 30 Year 00

Form Approved OMB No. 2050-0039, Expires 9-30-96
EPA Form 8700-22 (Rev. 9-88) Previous editions are obsolete.

COPY>3: FACILITY MAILS TO GENERATOR

In case of emergency or spill, immediately call the National Response Center (800) 424-8802.

CERTIFICATE OF DISPOSAL

SAFETY-KLEEN (NE), Inc.
221 Sutton Street; North Andover Ma, 01845

SAFETY-KLEEN (NE), Inc. hereby certifies that the following materials have been disposed on the dates and using the methods specified below:

I. Generator: PORTSMOUTH NAVAL SHIPYARD **SWO:** 120666
Address: CODE 106.32 SEAVEY ISLAND
KITTERY, ME 03904

II. Manifest Number: MAJ650499
Date Received: 08/30/2000
Contract Number:
Delivery Number:

III. Waste Description	**EPA Codes**	**In Amount**	**Out Amount**
[redacted] Waste corrosive liquid, acidic, inorganic, n.o.s.	D002 D009 D011	842.00 P	842.00 P
[redacted] Waste corrosive liquid, acidic, inorganic, n.o.s.	D002 D009 D011	324.00 P	324.00 P
C. RQ Waste caustic alkali liquids, n.o.s.	D002 D008 D010	2326.00 P	2326.00 P
[redacted] Waste corrosive liquid, basic, inorganic, n.o.s.	D002 D009 D011	1665.00 P	1665.00 P

IV. Dates of Disposition

A. 09/07/2000		**Loads:** 40475	
B. 09/07/2000		**Loads:** 40475	
C. 09/05/2000	09/07/2000	**Loads:** 39872	39873
D. 09/13/2000	09/07/2000	**Loads:** 40528	40475

V. Method of Disposition

A. TREATMENT/SECURE LANDFILL	at STABLEX CANADA INC	MAM542071	4B	842.00P
B. TREATMENT/SECURE LANDFILL	at STABLEX CANADA INC	MAM542071	6A	324.00P
C. BIOLOGICAL TREATMENT	at E.I. DUPONT DENEMOURS AND COMPANY	NJA3196113	5C	1395.60P
C. BIOLOGICAL TREATMENT	at E.I. DUPONT DENEMOURS AND COMPANY	NJA3196105	3C	930.40P
D. TREATMENT/SECURE LANDFILL	at STABLEX CANADA INC	MAM542071	6D	1188.00P
D. TREATMENT/SECURE LANDFILL	at STABLEX CANADA INC	MAM542155	7C	477.00P

This certification is your notice of the final disposition of the material listed above.

(Signature) Compliance Specialist (Title) 03/12/2001 (Date)

COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF HAZARDOUS MATERIALS
One Winter Street Boston, Massachusetts 02108

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MES7170022019
Manifest Document No. 00253
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
PORTSMOUTH NAVAL SHIPYARD
CODE 106.30 SEAVEY ISLAND
KITTERY ME 039045000
4. Generator's Phone ( ) 2074383153

A. State Manifest Document Number
MA J 650262

B. State Gen ID
Same

5. Transporter 1 Company Name
6. US EPA ID Number MSD000774591
C. State Trans. ID
MA25819 DLL
D. Transporter's Phone ( ) 978 683-1012

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Trans. ID

9. Designated Facility Name and Site Address
SAFETY-KLEEN (NE), INC.
300 CANAL STREET
LAWRENCE MA 01810
10. US EPA ID Number MAD000604447
F. Transporter's Phone ( )
G. State Facility's ID NOT REQUIRED
H. Facility's Phone ( ) 978 683-1002

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. [redacted] (0000 0009 0010 0011)	1	DT	432	P	[illegible]
b. NO HAZARDOUS WASTE, LIQUID, N.O.S. (LEAD, CHROMIUM 9 NA3082) PG III (D006 D007 D008)	18	CM	2484	P	[illegible]
c. NO HAZARDOUS WASTE, SOLID, N.O.S. (LEAD) 9 NA3077 PG III (D008)	6	CM	1125		[illegible]
d. HAZARDOUS WASTE, SOLID, N.O.S. (LEAD) (PESTICIDES) 9 NA3077 PG III (D008)	1	DT	638		[illegible]

J. Additional Descriptions for Materials Listed Above (Include physical state and hazard code)
a.
b.
c.
d.

K. Handling Codes for Wastes Listed Above
a. b. c. d.

15. Special Handling Instructions and Additional Information
EMERGENCY PHONE 1-800-424-8802

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Denis L. Gagnon
Signature: [signature]
Date: Month 08 Day 30 Year 00

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Chris Clarke
Signature: [signature]
Date: Month 08 Day 30 Year 00

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Diane E Peterson
Signature: [signature]
Date: Month 08 Day 30 Year 00

GENERATOR
TRANSPORTER
FACILITY

In case of emergency or spill, immediately call the National Response Center (800) 424-8802.

Form Approved OMB No. 2050-0039. Expires 9-30-96
EPA Form 8700-22 (Rev. 9-88) Previous editions are obsolete

COPY>3: FACILITY MAILS TO GENERATOR

CERTIFICATE OF DISPOSAL

SAFETY-KLEEN (NE), Inc.
221 Sutton Street; North Andover Ma, 01845

SAFETY-KLEEN (NE), Inc. hereby certifies that the following materials have been disposed on the dates and using the methods specified below:

I. Generator: PORTSMOUTH NAVAL SHIPYARD **SWO:** 120666
Address: CODE 106.32 SEAVEY ISLAND
KITTERY, ME 03904

II. Manifest Number: MAJ650262
Date Received: 08/30/2000
Contract Number:
Delivery Number:

III. Waste Description	EPA Codes	In Amount	Out Amount
[redacted] Hazardous waste, liquid, n.o.s.	D008 D009 D010 D011	432.00 P	432.00 P
B. RQ Hazardous waste, liquid, n.o.s.	D004 D007 D008	7480.00 P	7480.00 P
C. RQ Hazardous waste, liquid, n.o.s.	D008	1424.00 P	1424.00 P
D. RQ Hazardous waste, solid, n.o.s.	D009	508.00 P	508.00 P

IV. Dates of Disposition

A. 09/07/2000 **Loads:** 40426
B. 09/07/2000 09/08/2000 09/01/2000 **Loads:** 40373 40375 40302 40205
C. 09/01/2000 **Loads:** 40286
D. 09/01/2000 **Loads:** 40408

V. Method of Disposition

A. BIOLOGICAL TREATMENT	at E.I. DUPONT DENEMOURS AND COMPANY	NJA3196109	1A	432.00P
B. ROTARY KILN INCINERATION	at SAFETY-KLEEN (BRIDGEPORT),INC.	NJA3196104	5C	830.00P
B. ROTARY KILN INCINERATION	at SAFETY-KLEEN (BRIDGEPORT),INC.	NJA3196128	1A	1245.00P
B. BIOLOGICAL TREATMENT	at E.I. DUPONT DENEMOURS AND COMPANY	NJA3196109	1A	1245.00P
B. ROTARY KILN INCINERATION	at SAFETY-KLEEN (BRIDGEPORT),INC.	NJA3196101	1A	4160.00P
C. TREATMENT/SECURE LANDFILL	at SAFETY-KLEEN (PINEWOOD), INC.	SC40286	3E	1424.00P
D. RECLAMATION	at SUPERIOR SPECIALITY SERVICES	MAM542043	2A	508.00P

This certification is your notice of the final disposition of the material listed above.

(Signature) Compliance Specialist (Title) 03/12/2001 (Date)

COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF HAZARDOUS MATERIALS
One Winter Street, Boston, Massachusetts 02108

Please print or type. Form designed for use on elite (12-pitch) typewriter.

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: ME7170022019
Manifest Document No.: 60252
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
PORTSMOUTH NAVAL SHIPYARD
CODE 106.32 SEAVEY ISLAND
KITTERY ME 03904-5000
207-438-6153
4. Generator's Phone ( )

5. Transporter 1 Company Name: US ENVIRONMENTAL
6. US EPA ID Number: MAD980504841
7. Transporter 2 Company Name
8. US EPA ID Number
9. Designated Facility Name and Site Address
SAFETY-KLEEN (NE), INC.
800 CANAL STREET
LAWRENCE MA 01840
10. US EPA ID Number: MAD000604647

A. State Manifest Document Number: MAJ 650260
B. State Gen ID: SAME
C. State Trans. ID: MA25819 ALL
D. Transporter's Phone: 978-683-1002
E. State Trans. ID
F. Transporter's Phone ( )
G. State Facility's ID: NOT REQUIRED
H. Facility's Phone: 978-683-1002

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
[illegible] (D001, D006)					
RQ HAZARDOUS WASTE, SOLID, N.O.S. (CONTAINS LEAD) 9 NA3077 PG III (D001, D006)	1	DM	5044	P	D008
RQ HAZARDOUS WASTE, SOLID, N.O.S. (LEAD), [illegible] (D001, D008)	2	DM	402	P	D008
RQ HAZARDOUS WASTE, LIQUID, N.O.S. (CONTAINS LEAD), 9 NA3082 PG III (D001, D008, F003, D011)	4	DM	1909	P	D008

J. Additional Descriptions for Materials Listed Above (Include payload/state and hazard code.)
a. [illegible]
b.
c. [illegible]
d.

K. Handling Codes for Wastes Listed Above
a.
b.
c.
d.

15. Special Handling Instructions and Additional Information
EMERGENCY PHONE 1-800-479-6406

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Daniel T. Hogan
Signature: [signature]
Date: Month 08 Day 30 Year 00

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: CHRIS CLARKE
Signature: Chris Clarke
Date: Month 08 Day 30 Year 00

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Date: Month Day Year

FACILITY

19. Discrepancy Indication Space
Changes made to 12d + 13d drum moved to MAJ650499 Denis Bergman 9/5/00 (EC)
[illegible] spec

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: BRIAN E. PETERSON
Signature: [signature]
Date: Month 08 Day 30 Year 00

Form Approved OMB No. 2050-0039, Expires 9-30-96
EPA Form 8700-22 (Rev. 9-88) Previous editions are obsolete.

COPY>3: FACILITY MAILS TO GENERATOR

In case of emergency or spill, immediately call the National Response Center (800) 424-8802.

CERTIFICATE OF DISPOSAL

SAFETY-KLEEN (NE), Inc.
221 Sutton Street; North Andover Ma, 01845

SAFETY-KLEEN (NE), Inc. hereby certifies that the following materials have been disposed on the dates and using the methods specified below:

I. Generator: PORTSMOUTH NAVAL SHIPYARD **SWO:** 120666
Address: CODE 106.32 SEAVEY ISLAND
KITTERY, ME 03904

II. Manifest Number: MAJ650260
Date Received: 08/30/2000
Contract Number:
Delivery Number:

III. Waste Description	EPA Codes	In Amount	Out Amount
[redacted]dous waste, solid, n.o.s.	D006 D009	1310.00 P	1310.00 P
B. RQ Hazardous waste, liquid, n.o.s.	D004 D008	5244.00 P	5244.00 P
C. RQ Hazardous waste, solid, n.o.s.	D008 D010	438.00 P	438.00 P
[redacted]dous waste, liquid, n.o.s.	D008 D009 D010 D011	1909.00 P	1909.00 P

IV. Dates of Disposition

A. 09/12/2000 **Loads:** 40604
B. 09/07/2000 **Loads:** 40373
C. 10/26/2000 **Loads:** 41483
D. 09/22/2000 09/15/2000 **Loads:** 40778 40514

V. Method of Disposition

A. TREATMENT/SECURE LANDFILL	at SAFETY-KLEEN LTD.	MAM542129	1A	1310.00P
B. BIOLOGICAL TREATMENT	at E.I. DUPONT DENEMOURS AND COMPANY	NJA3196108	1A	5244.00P
C. TREAT/SOLIDIFY/LANDFILL	at SAFETY-KLEEN LTD.	MAM542581	27C	438.00P
D. SECURE LANDFILL	at MICHIGAN DISPOSAL WASTETREATMENT PLANT	MI7468734	2D	1431.00P
D. BIOLOGICAL TREATMENT	at E.I. DUPONT DENEMOURS AND COMPANY	NJA3096062	1A	478.00P

This certification is your notice of the final disposition of the material listed above.

(Signature) Compliance Specialist (Title) 03/12/2001 (Date)

COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF HAZARDOUS MATERIALS
One Winter Street Boston, Massachusetts 02108

126559
MAM737509

Please print or type. (Form designed for use on elite (12-pitch) typewriter)

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. ME7170022019	Manifest Document No. 01058	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
PORTSMOUTH NAVAL SHIPYARD
CODE 106.32 SEAVEY ISLAND
KITTERY, ME 03904

4. Generator's Phone (207) 438-5153

A. State Manifest Document Number: MA M 737509
B. State Gen. ID: SME

5. Transporter 1 Company Name: SAFETY-KLEEN (TG), INC.
6. US EPA ID Number: SCR000074591
C. State Trans. ID: MA25817

7. Transporter 2 Company Name
8. US EPA ID Number
D. Transporter's Phone: (978) 683-1082

9. Designated Facility Name and Site Address
SAFETY-KLEEN (NE), INC.
300 CANAL STREET
LAWRENCE, MA 01840

10. US EPA ID Number: MAD000604447

E. State Trans. ID
F. Transporter's Phone ( )
G. State Facility's ID: NOT REQUIRED
H. Facility's Phone: (978)683-1082

GENERATOR

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit WT/Vol.	I. WASTE NO
a. RQ WASTE ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S., (MERCURY), 9, UN3082, III, (D009)	01	DM	266	P	D009
b. RQ WASTE ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S., (MERCURY), 9, UN3077, III, (D009)	01	DM	394	P	D009
c.					
d.					

J. Additional Descriptions for Materials Listed Above (include physical state and hazard code.)
a. PS004-40520 MERCURY VAULT
b. PS004-40520 MERCURY VAULT
c.
d.

K. Handling Codes for Wastes Listed Above
a. S 0 1
b. S 0 1
c.
e.

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Emergency Situation Contact: Safety-Kleen (NE), (978)683-1082

Printed/Typed Name: DENNIS L. GAGNON
Signature
Date: Month 09 Day 14 Year 01

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Larry Radcliffe
Signature
Date: Month 09 Day 14 Year 01

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item19
Printed/Typed Name: DAVID CARLEY
Signature
Date: Month 09 Day 14 Year 01

Form Approved OMB No. 2050-0039. Expires 9-30-99
EPA Form 8700-22 (Rev. 9-88) Previous editions are obsolete.

COPY>3: FACILITY MAILS TO GENERATOR

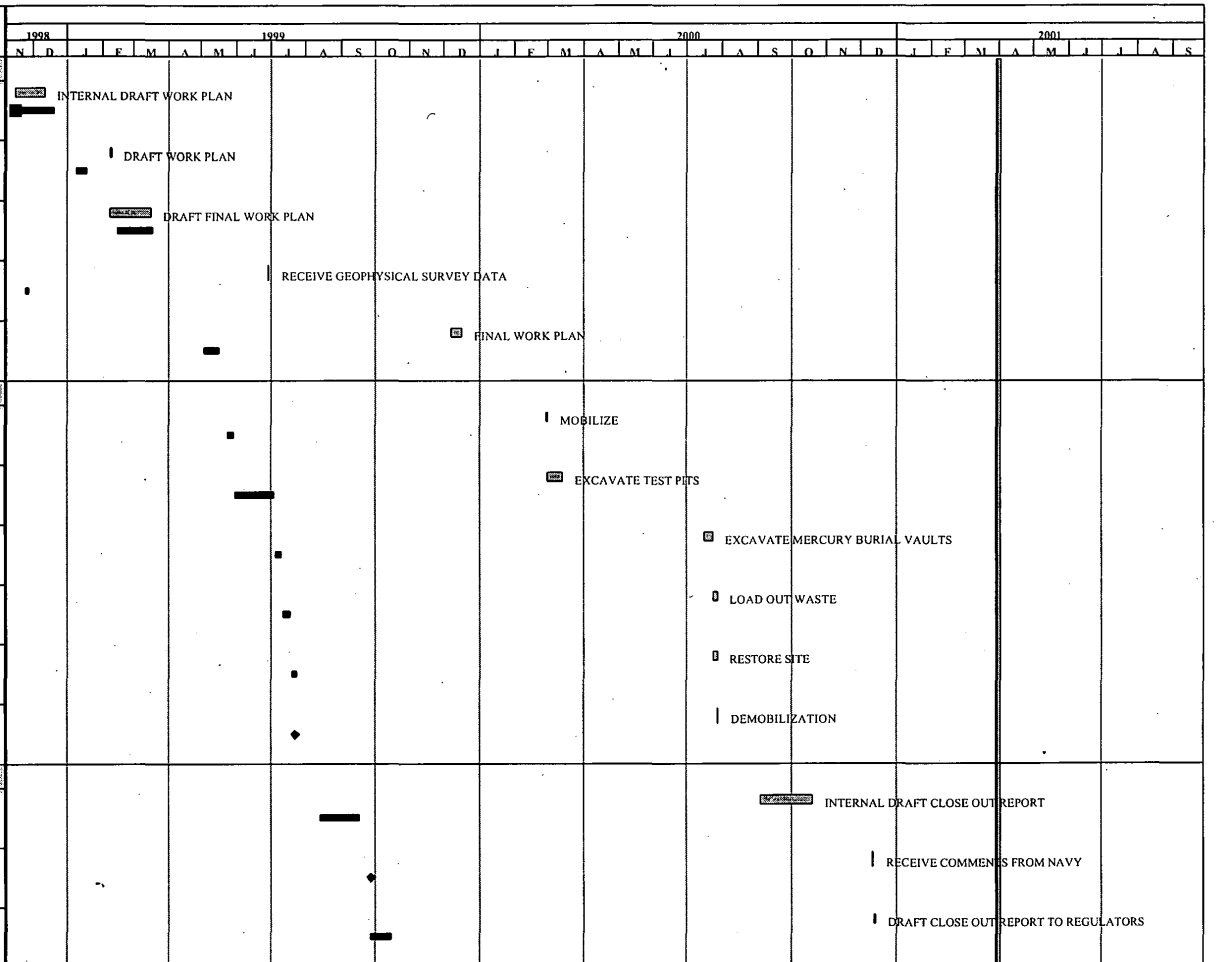
In case of emergency or spill, immediately call the National Response Center (800) 424-8802

MA M 737509 COPY>3: FACILITY MAILS TO GENERATOR

APPENDIX E

PROJECT SCHEDULE

Early Start	Early Finish	Percent Complete	
PRE-CONSTRUCTION SUBMITTALS			
16NOV98A	11DEC98A	100	INTERNAL DRAFT WORK PLAN
08FEB99A	08FEB99A	100	DRAFT WORK PLAN
08FEB99A	15MAR99A	100	DRAFT FINAL WORK PLAN
28JUN99A		100	RECEIVE GEOPHYSICAL SURVEY DATA
08DEC99A	15DEC99A	100	FINAL WORK PLAN
REMEDIATION			
28FEB00A	28FEB00A	100	MOBILIZE
01MAR00A	13MAR00A	100	EXCAVATE TEST PITS
17JUL00A	24JUL00A	100	EXCAVATE MERCURY BURIAL VAULTS
25JUL00A	27JUL00A	100	LOAD OUT WASTE
25JUL00A	27JUL00A	100	RESTORE SITE
	27JUL00A	100	DEMOBILIZATION
POST-CONSTRUCTION SUBMITTALS			
04SEP00A	18OCT00A	100	INTERNAL DRAFT CLOSE OUT REPORT
11DEC00A		100	RECEIVE COMMENTS FROM NAVY
12DEC00A	13DEC00A	100	DRAFT CLOSE OUT REPORT TO REGULATORS



Start Date	16NOV98
Finish Date	18MAY01
Data Date	30MAR01
Run Date	23APR01 11:27

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Early Bar
Target Bar
Progress Bar

3800

Sheet 1 of 2

DELIVERY ORDER 38

JAMAICA ISLAND LANDFILL

KITTERY, ME

Early Start	Early Finish	Percent Complete	
07FEB01A		100	RECEIVE COMMENTS FROM REGULATORS
08FEB01A	20APR01	69	COMPLETE MERCURY VAULT II FINAL REPORT TO NAVY
08FEB01A	20APR01	69	COMPLETE DRUM REMOVAL FINAL REPORT TO NAVY
23APR01	04MAY01	0	NAVY COMMENTS ON MERCURY VAULT II FINAL REPORT
23APR01	04MAY01	0	NAVY COMMENTS ON DRUM REMOVAL FINAL REPORT
07MAY01	18MAY01	0	PREPARE MERCURY VAULT II FINAL REPORT
07MAY01	18MAY01	0	PREPARE DRUM REMOVAL FINAL REPORT

1998: N D
1999: J F M A M J J A S O N D
2000: J F M A M J J A S O N D
2001: J F M A M J J A S

Start Date	16NOV98
Finish Date	18MAY01
Data Date	30MAR01
Run Date	23APR01 11:27

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Early Bar
Target Bar
Progress Bar

3800

DELIVERY ORDER 38

JAMAICA ISLAND LANDFILL

KITTERY, ME