

10/1/07-04202

FINAL PROJECT CLOSEOUT REPORT



**REVIEW, RECOMMENDATIONS,
AND REMOVAL ACTION
SITE 84 OPERABLE UNIT 19
MCB CAMP LEJEUNE, NORTH CAROLINA**

**CONTRACT No. N62470-04-D-5076
CTO: 0006 AND 0010**

RHĒA PROJECT NO. 273 AND 322

PREPARED FOR:



NAVFAC Mid-Atlantic
Code OPCEV
6506 Hampton Boulevard
Norfolk, Virginia 23508

PREPARED BY:



Rhēa Engineers & Consultants, Inc.
4951 William Flynn Highway
Suite 12
Gibsonia, Pennsylvania 15044

Marcella J. Gallick, P.E.
Project Manager

FINAL PROJECT CLOSEOUT REPORT

REVIEW, RECOMMENDATIONS, AND REMOVAL ACTION SITE 84 OPERABLE UNIT 19 MCB CAMP LEJEUNE, NORTH CAROLINA

CONTRACT NO. N62470-04-D-5076

CTO: 0006 AND 00010

OCTOBER 2007

RHĒA PROJECT NO. 273 AND 322

Prepared for:

NAVFAC Mid-Atlantic
Code OPCEV
6506 Hampton Boulevard
Norfolk, Virginia 23508

Prepared by:

Rhēa Engineers & Consultants, Inc.
4951 William Flynn Highway, Suite 12
Gibsonia, Pennsylvania 15044

TABLE OF CONTENTS

LIST OF FIGURES.....	iii
LIST OF ACRONYMS AND ABBREVIATIONS.....	iv
EXECUTIVE SUMMARY	vi
1.0 INTRODUCTION	1
1.1 SITE DESCRIPTION AND HISTORY.....	1
1.2 REGULATORY AND ENFORCEMENT HISTORY	3
1.3 PREVIOUS REMOVAL ACTIONS	3
1.4 PCB REMEDIATION GOAL.....	4
1.5 SUPPLEMENTAL FIELD INVESTIGATIONS	4
1.5.1 Abandoned Pipelines	5
1.5.2 Metal Anomaly	5
1.5.3. Groundwater.....	5
1.5.4 Further Delineation of PCB Contamination.....	5
1.5.5 Soil Revegetation.....	6
1.6 SELECTED REMOVAL METHOD	6
1.7 PHASE III NTCRA PROJECT OBJECTIVES	7
2.0 SUMMARY OF PHASE III NTCRA	7
2.1 PRE-REMOVAL VISIT.....	8
2.2 PREPARATORY WORK	8
2.2.1 Erosion and Sedimentation Control.....	8
2.2.2 Survey Markers and Utilities.....	9
2.3 REMOVAL ACTIVITIES	9
2.3.1 Excavation.....	9
2.3.2 Disposal.....	10
2.3.3 Backfilling/Road Reconstruction	10
2.3.4 Fence Installation.....	11
2.3.5 Regrading/Road Rebuilding.....	11
2.3.6 Well Protection	11
2.3.7 Revegetation.....	12
2.3.8 Communication Line Abandonment.....	12
2.3.9 Refertilization and Reseeding	12

3.0	ANALYTICAL RESULTS AND DATA VALIDATION.....	12
3.1	PRE-REMOVAL SAMPLING.....	13
3.2	IN-PLACE SAMPLING.....	13
3.3	SIDEWALL SAMPLING.....	14
3.4	DISPOSAL SAMPLING.....	15
3.5	QA/QC SAMPLING.....	15
3.6	DATA VALIDATION SUMMARY	16
4.0	SUMMARY OF PROJECT COSTS	16

REFERENCES

FIGURES

APPENDIX A	SAFETY MEETING MINUTES
APPENDIX B	DAILY PRODUCTION NOTES
APPENDIX C	DISPOSAL RECORDS/WEIGHT TICKETS
APPENDIX D	REMOVAL ACTION PHOTOGRAPHS
APPENDIX E	PRE-REMOVAL, DISPOSAL AND QA/QC ANALYTICAL RESULTS
APPENDIX F	LABORATORY ANALYTICAL RESULTS
APPENDIX G	DATA VALIDATION SUMMARY

LIST OF FIGURES

FIGURE 1	SITE LOCATION MAP
FIGURE 2	SITE 84 PLAN VIEW
FIGURE 3	EXCAVATION/BACKFILL AREAS – CONCENTRATIONS LEFT IN PLACE
FIGURE 4	MINOR BACKFILL AREAS – CONCENTRATIONS LEFT IN PLACE

LIST OF ACRONYMS AND ABBREVIATIONS

ARAR	Applicable or Relevant and Appropriate Requirement
Baker	Michael Baker Jr., Inc.
bgs	below ground surface
Cardinal	Cardinal Resources
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
COC	Contaminant of Concern
Dexsil analyzer	Dexsil L2000DX analyzer
EE/CA	Engineering Evaluation/Cost Analysis
E&S	Erosion and Sedimentation
GPS	Global Positioning System
LUCs	Land Use Controls
Mainscape	Mainscape, Inc.
MCB	Marine Corps Base
mg/kg	Milligrams per kilogram
Mitkem	Mitkem Corporation
NAVFAC	Naval Facilities Engineering Command
NC	North Carolina
NCDENR	North Carolina Department of Environment and Natural Resources
NCP	National Contingency Plan
NTCRA	Non-Time Critical Removal Action
OHM	OHM Remediation Services Corp.
OU	Operable Unit
Partnering Team	Navy, MCB Camp Lejeune, USEPA and NCDENR
PCB	Polychlorinated Biphenyl
ppm	Parts per million

QA/QC	Quality Assurance/Quality Control
Rhēa	Rhēa Engineers & Consultants, Inc.
RI	Remedial Investigation
Shaw site	Shaw Environmental, Inc. Site 84, Operable Unit 19, MCB Camp Lejeune
TBC	To Be Considered
TMS	TMS ENVIROCON, Inc.
TPH	Total petroleum hydrocarbons
TSCA	Toxic Substances Control Act
USEPA	United States Environmental Protection Agency
UST	Underground storage tank

EXECUTIVE SUMMARY

The objective of this Closeout Report is to summarize the Phase III Non-Time Critical Removal Action (NTCRA) at Operable Unit (OU) 19, Site 84. The removal action addressed polychlorinated biphenyl (PCB) contaminated soil. Total petroleum hydrocarbons (TPH) are also present in the soil; however, the TPH contamination is being addressed by the underground storage tank (UST) Remedial Program. The removal action work was conducted by Cardinal Resources (Cardinal) and Shaw Environmental, Inc. (Shaw) as subcontractors to Rhēa Engineers & Consultants, Inc. (Rhēa) under contract to Naval Facilities Engineering Command (NAVFAC) Mid-Atlantic.

SITE BACKGROUND AND HISTORY

Site 84, part of the MCB Camp Lejeune Military Reservation, is located just south of Highway 24, one mile west of the MCB Camp Lejeune main gate entrance. The northern edge of the study area borders North Carolina (NC) Highway 24, and the northwest edge is bordered by Northeast Creek. The site extends to the south and east to encompass a small, former man-made lagoon and the former Building 45 area. Toward the creek, the site is mostly wooded and covered with thick vegetation. The remainder of the site is open and grassed. A gravel access road is located in the eastern portion of the site.

Site 84's Building 45, constructed by the U.S. Navy soon after purchasing the property in 1941, was leased to Tidewater Electric, who operated the building through 1965. Former employees recalled that site activities included PCB transformer maintenance, recycling, and on-site disposal of spent transformer casings. In approximately 1965, Camp Lejeune converted Building 45 to a maintenance facility for large machinery, and it was used for that purpose until the early 1990s.

A 12-inch diameter steel reinforced concrete pipe from Building 45 discharged into the southeastern end of the lagoon. Reportedly the pipe was connected to the former oil/water separator located outside of Building 45. However, it is believed that prior to the installation of the oil/water separator, the pipe was connected directly to the building floor drains.

The aboveground portions of Building 45 were demolished in 1999. A comprehensive Remedial Investigation (RI) of the site was conducted in 2001 (Baker 2002). During this investigation, borings were drilled and surface and subsurface soil samples taken and analyzed. In addition, monitoring wells installed across the site were sampled and analyzed. In 2002, a Final Engineering Evaluation/Cost Analysis (EE/CA) for a NTCRA

being considered for Site 84 was prepared (Baker 2002). The EE/CA was prepared to expedite the removal action of contaminated soil.

A Phase I NTCRA, which removed the building foundation and adjacent contaminated soil, was completed in October 2002. In addition, approximately 20 transformers potentially containing PCB transformer oil were removed from the lagoon. Removal of the lagoon sediments and other contaminated soil, backfilling of the lagoon, and partial removal of the pipe from former Building 45 were completed in 2004 as part of the Phase II NTCRA.

A railroad right-of-way borders Site 84 to the north, parallel to NC Highway 24. As the railroad is no longer used, the Base has transferred a portion of the railroad right-of-way to the City of Jacksonville for a pedestrian/bicycle trail. Fencing is necessary to prevent recreational trespassers from accessing the site. Partial fencing was completed in 2004 during the Phase II NTCRA.

Confirmation testing performed during the Phase II NTCRA identified several site areas with soil PCB concentrations greater than or equal to the site cleanup level for low-occupancy industrial land use of 10 parts per million (ppm). Also, during the Phase II removal action, a steel pipe was found in the northwestern area of the site, but no additional pipe sediment testing was performed. Additional investigation and a Phase III NTCRA were required.

SITE REMEDIATION GOAL FOR CONTAMINATED SOIL

The remediation goal for PCBs at Site 84 was selected based on standards and guidance, and future land use considerations for Site 84. The risk-based remediation goal used for the Phase III NTCRA at Site 84 is 10 milligrams per kilogram (mg/kg) or 10 ppm for PCBs for low occupancy industrial land use as described in the Final Action Memorandum (Baker 2002).

SELECTED REMOVAL METHOD

The most cost-effective method/technology for remediation of PCB-contaminated soil at Site 84 is excavation, based on low-occupancy industrial land use, and landfill disposal. Therefore, residential Land Use Controls (LUCs) will be required. However, because of the location and extent of remaining PCB contamination prior to the Phase III NTCRA, total excavation to the PCB remediation goal was not practical or cost effective. Because Site 84 has not been remediated to the soil action level of 10 ppm, a 2-foot thick

vegetative soil cover was placed above the PCB-contaminated soil, and intrusive activity controls will be required.

SUMMARY OF PHASE III NTCRA CONSTRUCTION ACTIVITIES

The major activities of the Phase III NTCRA included pre-removal activities, preparatory work, and tasks directly associated with the removal action, including confirmation sampling and analysis.

The activities conducted during the pre-removal visit included:

- Pre-removal sampling in the proposed excavation area as required by the disposal facility;
- Setting site benchmarks;
- Pre-survey of existing contours in areas of excavation and backfill and layout of work areas;
- Baseline surveying for in-place soil sampling grid layout;
- Fence layout; and
- Camp Lejeune French Creek Borrow Area reconnaissance.

Initial preparatory work included installation of the silt fence, establishment of the truck washing stations at the site and at the borrow area, locating the survey markers, and locating the site underground utilities prior to any intrusive work.

Two feet of soil was excavated in the accessible area of highest contamination. The area of soil removal was 5,800 square feet. Based on past sampling/analysis, the soil was impacted with PCBs greater than or equal to 50 ppm. The excavated soil was staged in a windrow within the area of excavation/backfilling to avoid cross contamination of adjacent clean areas. Field screening sidewall samples were taken, where feasible, as the excavation progressed to verify that all highly contaminated soil less than two feet in depth was removed from the excavation area.

Sidewall samples and in-place soil samples were taken after field screening results showed that the excavation was complete. Final sidewall samples were collected and analyzed for PCBs in the laboratory to verify the sidewall sample field screening. In-place soil samples were taken from the base of the excavation and were analyzed in the laboratory for PCBs. Field screening was also performed on segregated areas of the windrow after excavation was completed, prior to disposal. All of the soil in the windrow was found to be contaminated with PCBs at concentrations greater than or equal to 50 ppm; therefore, all soil excavated was disposed of at the Wayne Disposal, Toxic

Substances Control Act (TSCA), facility (MID 048 090 633) located in Belleville, Michigan. A total of 696 tons of PCB-contaminated soil was disposed of at this facility.

Backfilling began after in-place soil sampling in the base of the excavation area and in the backfill areas was completed. When PCB concentrations in the top two feet of soil at Site 84 were greater than 10 ppm and less than 50 ppm, a minimum of two feet of clean soil cover was placed on the existing soil surface rather than excavating and disposing of the soil off site. An exception to this approach was in the access road area directly west of the excavation area. Soil in this area of the site has measured PCB levels greater than 50 ppm, but the soil could not be practically removed because of numerous critical communication lines buried in this area. Therefore, two feet or more of clean soil cover was placed in this area also. In summary, based on 300 laboratory soil analyses, approximately one-third of Site 84 had PCB concentrations greater than 10 ppm at a depth greater than two feet at the completion of excavation and backfilling.”

The area of soil cover placed during the Phase III NTCRA was 18,300 square feet. The depth of soil backfill was checked periodically against markers placed during the pre-removal survey. The final depth was verified by survey at the completion of the remediation.

Once backfilling was complete, the access road in the work area was reconstructed. Geotextile fabric was placed over the backfilled and compacted soil cover in the road area, and NC specified ABC gravel was placed and compacted over the fabric. Later, after a heavy rainfall, regrading and resurveying of the backfill area was required along with reconstruction of the access road.

As part of this removal action, the existing four-foot high fence along the northeastern border of the site was extended to Northeast Creek. The original plan was to extend it parallel to the proposed bike trail on the old railroad right of way, but it was determined that the fence would be too close to the centerline of the future bike trail. Therefore, the fence alignment was changed to parallel the outside limits of the previous Phase II NTCRA.

Once regrading activities were complete, Rhēa, with the assistance of their subcontractor Mainscape, Inc. (Mainscape), fertilized and hydroseeded Site 84 based on fertilizer and seed requirements provided by the North Carolina Agronomic Division Soil Testing Service.

Confirmation sampling conducted after excavation and before backfilling included the in-place samples at the base of the excavation and at the surface of the backfill areas. These samples were collected for every 1,000 square feet of area to be backfilled, and were taken to document PCB contamination left in place a minimum of two feet below the final backfilled surface. Final sidewall samples taken also serve as confirmation samples to identify contamination from a minimum of two feet to four feet beneath the final backfilled surface. Summaries of the in-place and final sidewall sample results are provided in Section 3.0 of this report.

**FINAL PROJECT CLOSEOUT REPORT
REVIEW, RECOMMENDATIONS, AND REMOVAL ACTION
SITE 84 OPERABLE UNIT 19
MCB CAMP LEJEUNE, NORTH CAROLINA**

1.0 INTRODUCTION

This Closeout Report presents a summary of the supplemental investigations along with the Phase III Non-Time Critical Removal Action (NTCRA) implemented in 2005 and 2006 to address the remaining Polychlorinated Biphenyl (PCB) contamination at Site 84, Operable Unit (OU) 19 at Marine Corps Base (MCB) Camp Lejeune, North Carolina. See Figure 1 – Site Location Map. The removal action was conducted by Cardinal Resources (Cardinal) and Shaw Environmental, Inc. (Shaw) as subcontractors to Rhēa Engineers and Consultants, Inc. (Rhēa) under contract with Naval Facilities Engineering Command (NAVFAC) Mid-Atlantic. The work was carried out in accordance with the approved Recommendations Report (Rhēa 2006). This Closeout Report describes and documents the major tasks associated with the supplemental investigations, the removal and disposal of PCB contaminated soil, and the placement of vegetative soil cover over PCB contaminated soil remaining in place at Site 84.

The NTCRA, as described in this report, is identified as the Phase III Site 84 removal action. Phase I was the NTCRA to remove the former Building 45 foundation and surrounding contaminated soil, which was performed by TMS ENVIROCON, Inc. (TMS) in 2002 with support from OHM Remediation Services Corporation (OHM) (OHM, 2003). The Phase II NTCRA removed co-mingled PCB and total petroleum hydrocarbons (TPH) contaminated soil and lagoon sediments west of the former Building 45 site, and was conducted by TMS in 2003/2004 with document and sampling support provided by Michael Baker Jr., Inc. (Baker) (TMS/Baker, 2005).

1.1 SITE DESCRIPTION AND HISTORY

Site 84, part of the MCB Camp Lejeune Military Reservation, is located just south of Highway 24, one mile west of the MCB Camp Lejeune main gate entrance. See Figure 2 – Site 84 Plan View. The northern edge of the study area borders North Carolina (NC) Highway 24, and the northwest edge is bordered by Northeast Creek. The site extends to the south and east to encompass a small, former man-made lagoon and the former Building 45 area. Toward the creek, the site is mostly wooded and covered with thick vegetation. The remainder of the site is open and grassed. A gravel access road is located in the eastern portion of the site.

Site 84's Building 45, constructed by the U.S. Navy soon after purchasing the property in 1941, was leased to Tidewater Electric, who operated the building through 1965. Former employees recalled that site activities included PCB transformer maintenance, recycling, and on-site disposal of spent transformer casings. In approximately 1965, Camp Lejeune converted Building 45 to a maintenance facility for large machinery and it was used for that purpose until the early 1990s.

A 12-inch diameter concrete-encased steel pipe from Building 45 discharged into the southeastern end of the lagoon. Reportedly the pipe was connected to the former oil/water separator located outside of Building 45. However, it is believed that prior to the installation of the oil/water separator, the pipe was connected directly to the building floor drains.

The aboveground portions of Building 45 were demolished in 1999. A comprehensive Remedial Investigation (RI) of the site was conducted in 2001 (Baker 2002). During this investigation, borings were drilled and surface and subsurface soil samples taken and analyzed. In addition, monitoring wells installed across the site were sampled and analyzed. In 2002, a Final Engineering Evaluation/Cost Analysis (EE/CA) for a NTCRA being considered for Site 84 was prepared (Baker 2002). The EE/CA was prepared to expedite the removal action of contaminated soil.

A Phase I NTCRA, which removed the building foundation and adjacent contaminated soils, was completed in October 2002. In addition, approximately 20 transformers potentially containing PCB transformer oil were removed from the lagoon. Removal of the lagoon sediments and other contaminated soil, backfilling of the lagoon, and partial removal of the pipe from former Building 45 were completed in 2004 as part of the Phase II NTCRA.

A railroad right-of-way borders Site 84 to the north, parallel to NC Highway 24. As the railroad is no longer used, the Base has transferred a portion of the railroad right-of-way to the City of Jacksonville for a pedestrian/bicycle trail. Fencing is necessary to prevent recreational trespassers from accessing the site. Partial fencing was completed in 2004 during the Phase II NTCRA.

Confirmation testing performed during the Phase II NTCRA identified several site areas with soil PCB concentrations greater than or equal to the site cleanup level for low-occupancy industrial land use of 10 parts per million (ppm), as discussed below in Section 1.4. Also, during the Phase II removal action, a steel pipe was found in the northwestern area of the site, but no additional pipe sediment testing was performed. Additional investigation and a Phase III NTCRA would be required.

1.2 REGULATORY AND ENFORCEMENT HISTORY

OU 19 is one of 22 OUs within Camp Lejeune. OU 19 contains only one site, Site 84. The following PCB-related environmental activities have occurred at Site 84 to date:

- “Relative Risk Ranking System Data Collection Investigation,” (Baker 1995);
- “Pre-Remedial Investigation Screening Study,” (Baker 1998);
- “Concrete Chip and Surface Water Sampling Report, Building 45,” (Baker 1999);
- “Remedial Investigation, Operable Unit 19, Site 84/Building 45 Area,” (Baker 2002);
- Final Engineering Evaluation/Cost Analysis (EE/CA), Site 84/Building 45 Area,” (Baker 2002);
- “Phase I NTCRA, Operable Unit No. 19, Site 84/Building 45 Area,” (OHM, 2003);
- “Final Phase II Removal Action Work Plan, Site 84,” (Baker 2003);
- “Final Site 84, Operable Unit 19, Phase II Interim Removal Action, Closeout Report,” (TMS/Baker 2005); and
- “Final Recommendations Report (i.e., Work Plan for Phase III NTCRA), Site 84, Operable Unit 19,” (Rhēa 2006).

1.3 PREVIOUS REMOVAL ACTIONS

As discussed above, removal actions conducted previously at Site 84 included the Phase I NTCRA conducted in 2002 and the Phase II NTCRA conducted in 2004. The Phase I NTCRA included removal of the foundation of Building 45 and surrounding PCB contaminated soil. During the Phase I NTCRA, 4,860 tons of non-hazardous PCB-contaminated soil (i.e., < 50 ppm) was excavated and disposed of at the Sampson County Landfill, a local permitted facility in Rosewood, North Carolina. In addition, 143 tons of hazardous PCB-contaminated soil (i.e., > 50 ppm) was excavated and disposed of at the Wayne Disposal, Inc. facility, a Toxic Substances Control Act (TSCA) landfill located in Belleville, Michigan. For this initial removal action, PCB contaminated soil was removed to a concentration of 1 ppm, and the minimum depth of excavation was four feet. After excavation was complete, the area was backfilled with off-site clean soil.

In 2004, a Phase II NTCRA was completed that attempted to address the remaining PCB contamination on site. The remediation goal used for this removal was 10 ppm as discussed below in Section 1.4. The excavation volume included 11,600 tons of non-

hazardous PCB-contaminated soil and sediment and 360 tons of hazardous soil. The non-hazardous PCB-contaminated soil and sediment was disposed of at the Sampson County Landfill, and the hazardous soil was disposed of at the Clean Harbors Lone Mountain Landfill, a TSCA landfill in Waynoka, Oklahoma. Confirmation testing performed after excavation verified that the soil in the base of the excavation was below the remediation goal of 10 ppm for industrial low occupancy land use. However, confirmation sampling identified several Phase II NTCRA excavation sidewall areas with soil PCB concentrations greater than 10 ppm. The sample results appeared to indicate a significant southwestern extension of PCB contamination. Following excavation, the area was backfilled with off-site clean soil.

1.4 PCB REMEDIATION GOAL

The remedial goal for Site 84 is a risk-based goal for low occupancy industrial land use as per the United States Environmental Protection Agency (USEPA) guidance document, “A Guide on Remedial Actions at Superfund Sites With PCB Contamination,” (USEPA, 1990). The USEPA guidance document is not federal or state law and therefore is not an Applicable or Relevant and Appropriate Requirement (ARAR). However, it is federal guidance that addresses PCB contamination at Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) sites and therefore is treated as “To Be Considered (TBC)” information for Site 84. This guidance provides the following recommended soil action levels for industrial land use as a risk-based concentration for PCB-contaminated soil:

- Non-Residential or Industrial Land Use: 10 to 25 ppm

These concentrations reflect an increased cancer risk in the acceptable range of 10^{-4} to 10^{-6} , and are based on standard exposure assumptions. These action levels indicate PCB levels that can be left on site.

The remediation goal used for this Phase III NTCRA at Site 84 was 10 ppm for PCBs for low occupancy industrial land use as described in the Final Action Memorandum (Baker 2002).

1.5 SUPPLEMENTAL FIELD INVESTIGATIONS

Because the Phase II NTCRA was not able to result in site closure, supplemental field investigations were conducted under Rhēa’s direction from September through December 2005. These investigations included a general site inspection; geophysical surveys; and

test pit excavation, sampling, and analysis. Summaries of significant findings and conclusions from these investigations follow.

1.5.1 Abandoned Pipelines

Two underground pipes originating from the general area of former Building 45 were located by geophysical methods and exposed during the supplemental investigations. The southernmost pipeline corresponded to the location of the concrete-encased steel pipe that was partially excavated during the Phase II NTCRA (i.e., a pipe that discharged to the former lagoon from former Building 45). PCB concentrations in sediment samples taken from the end of the pipe are less than 10 ppm; and the Partnering Team (including the Navy, MCB Camp Lejeune, USEPA, and the North Carolina Department of Environment and Natural Resources [NCDENR]) agreed that this pipe may remain in place. PCB concentrations in sediment samples taken from the end of the northernmost pipe are less than 10 ppm; and the Partnering Team agreed that this pipe may also remain in place.

1.5.2 Metal Anomaly

A large metallic anomaly, identified during the geophysical survey, was found during the test pit excavation to be a mass of steel reinforcing, probably from the former Building 45 footings. The resolution of the anomalous reading in that area eliminated speculation of another potential waste conduit.

1.5.3 Groundwater

The previous contaminant of concern (COC) in the site groundwater was pesticides, but based on the results of groundwater sampling and analysis conducted by Rhēa in 2005, no pesticide compounds exceeded the most recent North Carolina 2L Standards, and the Partnering Team concluded that no action was required for groundwater. Note that no PCBs had been detected in previous groundwater sampling/analysis events.

1.5.4 Further Delineation of PCB Contamination

As a result of the test pit program, PCB contamination greater than 10 ppm was identified in surface (i.e., 0 to 2 feet in depth) and subsurface (i.e., > 2 feet in depth) soil south and west of the Phase I and Phase II NTCRAs (See Figure 2 – Site 84 Plan View). The highest concentration of contamination was found in the area identified as the excavation area on Figure 3 – Excavation/Backfill Areas – Concentrations Left in Place. Numerous surface and subsurface soil samples in this area contained PCB concentrations greater

than 50 ppm. It was determined that the surface soil in this area would be excavated and disposed of off site, and the area would be backfilled with a minimum of two feet of clean soil cover and revegetated. The Partnering Team noted that when PCBs remain on the site in the subsurface soil at a concentration greater than 10 ppm, intrusive activity Land Use Controls (LUCs) will be a required part of the preferred site alternative.

During the utility location task, numerous buried, active utility, and communication lines were identified along the area of the gravel access road south and west of the Phase I and Phase II NTCRAs. Some samples taken in this area contained PCB concentrations greater than 50 ppm; however, because of the large number of critical communication lines crossing this area, the Partnering Team concluded that placing two feet of clean soil cover would be a more appropriate approach than soil excavation and disposal (See the western backfill area as identified on Figure 3). Intrusive activity LUCs will be required in this area.

Additional surface soil sampling was conducted east of the Figure 3 excavation area and in minor areas of PCB surface soil contamination (see Figure 4 – Minor Backfill Areas – Concentrations Left in Place). PCB contaminations greater than 10 ppm but less than 50 ppm were identified in these areas. Two feet of clean soil cover would be placed on these areas, and intrusive activity LUCs will be required.

1.5.5 Soil Revegetation

Because of the planned use of clean soil cover at Site 84, the Partnering Team decided that the surface of the entire site must be revegetated. Rhēa sampled clean surface soil from the Phase II excavation area to determine soil nutrient requirements for seeding.

1.6 SELECTED REMOVAL METHOD

A removal action screening for Site 84 is presented in the Final EE/CA. The EE/CA was prepared to expedite the removal of contaminated soil from Site 84. As required by Section 300.415(b)(4)(i) of the National Contingency Plan (NCP), an EE/CA must be completed for all NTCRAs. The goals of the EE/CA are to identify the objectives of the proposed removal action and to analyze the effectiveness, implementability, and cost of various alternatives that may satisfy the objectives. Thus, an EE/CA is similar to, but more streamlined than, an RI/FS conducted for remedial actions.

As per the EE/CA, the most cost-effective method/technology for PCB-contaminated soil remediation at Site 84 is excavation, based on low-occupancy industrial land use, and landfill disposal. Therefore, residential LUCs will be required. However, because of the

location and extent of remaining PCB contamination prior to the Phase III NTCRA, total site excavation to the PCB remediation goal is not practical or cost effective. Because the entire Site 84 will not be remediated to the soil action level of 10 ppm, a 2-foot thick vegetative soil cover was placed over the remaining PCB-contaminated soil, the site fence was extended to Northeast Creek, and intrusive activity controls will be required.

1.7 PHASE III NTCRA PROJECT OBJECTIVES

Based on the EE/CA recommendations and the results of the supplemental field investigations, the key objectives of the Phase III NTCRA for Site 84 were to:

1. Excavate and dispose of surface soil in the excavation area containing PCB concentrations in excess of 50 ppm (see Figure 3);
2. Place a minimum two-foot clean soil cover over areas where PCB concentrations in excess of the remediation goal of 10 ppm for industrial land use will remain in place at the site, i.e., the excavation area and two backfill areas as identified on Figure 3 and the minor backfill areas as identified on Figure 4;
3. Revegetate the entire site; and
4. Extend the chain link fence to Northeast Creek to restrict access to the site.

2.0 SUMMARY OF PHASE III NTCRA

The construction activities associated with the Phase III NTCRA were performed by Cardinal and Shaw as subcontractors to Rhēa. Table 2-1 summarizes the Phase III NTCRA activities conducted at Site 84 and the timeframes for these activities. The following Appendices provide more detailed information related to the site activities:

- Appendix A – Safety Meeting Minutes;
- Appendix B – Daily Production Notes;
- Appendix C – Disposal Records/Weight Tickets; and
- Appendix D – Removal Action Photographs.

Sampling and analysis results are discussed in detail in Section 3.0.

**Table 2-1
Summary of Construction Activities
Operable Unit 19, Site 84
Phase III NTCRA
MCB Camp Lejeune, North Carolina**

DATES	MAJOR ACTIVITIES
27 and 28 April 2006	Pre-Removal Visit
2-14 June 2006	Preparatory Work; Excavation; Disposal; Backfilling; Initial Road Reconstruction; Completion of Fence Installation
1-4 August 2006	Regrading; Road Rebuilding; Well Protection; Revegetation
9 October 2006	Communication Line Abandonment; Refertilization and Reseeding

2.1 PRE-REMOVAL VISIT

The activities conducted during the pre-removal visit included:

- Pre-removal sampling in the proposed excavation area as required by the disposal facility;
- Setting site benchmarks;
- Pre-survey of existing contours in areas of excavation and backfill and layout of work areas;
- Baseline surveying for in-place soil sampling grid layout;
- Fence layout; and
- Camp Lejeune French Creek Borrow Area reconnaissance.

2.2 PREPARATORY WORK

Initial site work included installation of the silt fence, establishment of the truck washing stations at the site and at the borrow area, locating the survey markers, and locating the site underground utilities.

2.2.1 Erosion and Sedimentation Control

Erosion and sedimentation (E&S) control measures were installed prior to any intrusive work on site. Because the area of disturbance for this removal action was less than one acre, a formal Erosion and Sedimentation Control Plan was not required. Rhēa prepared

an E&S plan for the project, and a copy of the plan was kept on site during the removal action.

Vehicle Washing Stations: Before soil transport to or from the site and the borrow site, vehicle washing stations were constructed to prevent soil from being tracked onto roads. Truck tires were sprayed, if necessary, with a power washer before they left the site or the borrow pit.

Silt Fence: Prior to excavation and backfilling, silt fence was placed downslope of the excavation and backfill areas. Silt fence was also placed downslope of the clean fill stockpile and decontamination area. When not in use or prior to and during rain events, the soil stockpiles were covered with six-mil thick plastic sheeting and weighted with sand bags to prevent erosion.

2.2.2 Survey Markers and Utilities

During the pre-removal visit, benchmarks and survey baselines were established on site. Prior to initiating the removal action, the survey markers were located by Rhēa. In addition, prior to the removal action, site underground utilities were located by MCB Camp Lejeune personnel and by an independent utility locating firm.

2.3 REMOVAL ACTIVITIES

2.3.1 Excavation

Two feet of soil was excavated in the area identified as the excavation area on Figure 3. The area of soil removal was 5,800 square feet. Based on past sampling/analysis, the soil was impacted with PCBs greater than or equal to 50 ppm. The excavated soil was staged in a windrow within the area of excavation/backfilling to avoid cross contamination of adjacent clean areas. Field screening sidewall samples were taken, where feasible, as the excavation progressed to verify that all highly contaminated soil less than two feet in depth was removed from the excavation area.

Sidewall samples and in-place soil samples were taken after field screening results showed that the excavation was complete. Sidewall samples were collected and analyzed for PCBs in the laboratory to verify the sidewall sample field screening. In-place soil samples were taken from the base of the excavation and were analyzed for PCBs. Note that a Dexsil L2000DX (Dexsil) analyzer was used to perform the field screening analysis.

2.3.2 Disposal

Field screening with the Dexsil analyzer was also performed on segregated areas of the windrow after excavation was completed, prior to disposal. All of the soil in the windrow was found to be contaminated with PCBs at concentrations greater than or equal to 50 ppm; therefore, all soil excavated was disposed of at the Wayne Disposal facility (MID 048 090 633) located in Belleville, Michigan. A total of 696 tons of PCB-contaminated soil was disposed of at this facility.

2.3.3 Backfilling/Road Reconstruction

Once erosion controls were in place at Site 84, borrow material was excavated from the Camp Lejeune French Creek borrow area and transported to Site 84, where it was stockpiled and dried prior to initiating site backfill work. Backfilling began after in-place soil sampling in the base of the excavation area and in the backfill areas was completed.

When PCB concentrations in the top two feet of soil at Site 84 were greater than or equal to 10 ppm and less than 50 ppm, a minimum of two feet of clean soil cover was placed on the existing soil surface rather than excavating and disposing of the soil off site. An exception to this approach was in the access road area directly west of the excavation area. Soil in this area of the site has measured PCB levels greater than 50 ppm, but the soil could not be practically removed because of numerous critical communication lines buried in this area. Therefore, two feet or more of clean soil cover was placed here also.

Fill was placed in 10-inch loose lifts and compacted by a bulldozer. The minimum final clean fill thickness was two feet over PCB contaminated areas. Corrugated large diameter plastic pipes were placed around existing structures in the areas to be backfilled (i.e., Embarq communication line access covers and MW-04) to permit the backfilling operation to proceed and still maintain access to these structures.

The area of soil cover placed during the Phase III NTCRA was 18,300 square feet. The depth of soil backfill was checked periodically against markers placed during the pre-removal survey. The final depth was verified by survey at the completion of the remediation. Final contours of the excavation and backfill areas are shown on Figure 3; the final elevations of the minor backfill areas are indicated on Figure 4. Note that the excavation area was backfilled to grade and higher to blend in with the surrounding new fill grades; therefore, the thickness of clean soil cover above PCB contaminated soil in this area was measured to be greater than two feet.

Once backfilling was complete, the access road in the work area was reconstructed. Geotextile fabric was placed over the backfilled and compacted soil cover in the road area, and NC specified ABC gravel was placed and compacted over the fabric.

2.3.4 Fence Installation

As part of this removal action, the existing four-foot high fence along the northeastern border of the site was extended to Northeast Creek. The original plan was to extend it parallel to the proposed bike trail on the old railroad right of way, but it was determined that the fence would be too close to the centerline of the future bike trail. Therefore, the fence alignment was changed to parallel the outside limits of the previous Phase II NTCRA.

Prior to the initiation of removal activities, it was determined that the proposed new fence line passed through the right of way of an active natural gas line. A utility locator from Piedmont Natural Gas supervised the digging of fence post holes in the natural gas pipeline right-of-way after approval by the MCB Camp Lejeune Environmental Affairs Department. Shaw performed excavation of the fence postholes rather than the fencing subcontractor because of suspected contamination of the soil. As a precautionary measure, this soil was field screened for PCBs. No PCBs were found, and the posthole soil was subsequently disposed of in the excavation area after in-place sampling was completed. After excavation was complete, fence posts were set in concrete and fencing fabric was installed.

2.3.5 Regrading/Road Rebuilding

Heavy rainfall during the June 2006 removal effort prevented some tasks from being completed and also resulted in damage to some remediation site features constructed in June 2006. Both the backfill area and the access road were damaged by the rainfall. Prior to regrading, Rhēa and their surveyors determined and marked the regrading elevations necessary to repair the constructed soil cover. During the August 2006 effort, the backfill area was regraded by Shaw. After regrading, additional ABC gravel was delivered to the site, and the access road in the area of the removal action was rebuilt. In addition, existing silt fence was rebuilt, and new silt fence was placed in the work area.

2.3.6 Well Protection

Corrugated large diameter plastic pipes had been placed around existing structures in the areas to be backfilled (i.e., Embarq communication line access covers and MW-04) to permit the backfilling operation to proceed and still maintain access to these structures.

After completion of this task, Camp Lejeune requested a new approach to the protection. The large diameter plastic pipes were removed from around MW-04 and replaced with a concrete pad and bollards.

2.3.7 Revegetation

Once regrading activities were complete, Rhēa, with the assistance of their subcontractor Mainscape, fertilized and hydroseeded Site 84 based on fertilizer and seed requirements provided by the North Carolina Agronomic Division Soil Testing Service.

2.3.8 Communication Line Abandonment

During the August remediation activities, Embarq (formerly Sprint) determined that they would abandon their existing communication lines in contaminated soil. Access covers (and corrugated plastic pipe protection) would be removed after old lines were abandoned. In September 2006, Rhēa received word from Embarq that their lines had been abandoned. Rhēa returned to the site in early October, and with the assistance of Shaw, the two Embarq communication boxes were removed. The soil was regraded in the areas of the boxes to match the new grades.

2.3.9 Refertilization and Reseeding

An approximate 85 percent grass coverage was observed by Rhēa at the site in October 2006. Sparse areas were noted in the newest fill areas. Also, revegetation of the Embarq access cover removal areas was required. Rhēa's seeding subcontractor Mainscape returned to the site and refertilized and reseeded these areas.

3.0 ANALYTICAL RESULTS AND DATA VALIDATION

Following is a summary of the sampling and analysis performed during the pre-removal and removal activities. Laboratory testing was performed by Mitkem Corporation (Mitkem) of Warwick, Rhode Island. Sampling protocol descriptions and a data validation summary are also provided. The following Appendices provide more detailed information related to the sampling and analysis activities:

- Appendix E – Pre-Removal, Disposal, and Quality Assurance/Quality Control (QA/QC) Analytical Result Summaries;
- Appendix F – Laboratory Analytical Results; and
- Appendix G - Data Validation Summary.

The locations of all in-situ and final sidewall samples taken were determined using a hand-held Global Positioning System (GPS) unit. In addition, horizontal and vertical control measurements of each sample location were taken from baseline control markers installed during the pre-removal site visit.

3.1 PRE-REMOVAL SAMPLING

One composite sample of the soil to be excavated was taken during the pre-removal site visit. The composite was made up of five surface soil sub-samples taken along the north-south centerline of the planned excavation area (See Figure 3). Sub-samples were collected using a stainless steel trowel and were homogenized in a stainless steel bowl. The composite sample was split. One PCB soil sample with required QA/QC samples was sent to Mitkem for analysis. The second sample was sent to the Wayne Disposal facility for further testing. See Appendix E for the Mitkem pre-removal sample results.

3.2 IN-PLACE SAMPLING

At the surface of PCB contaminated soil to remain in place, i.e., at a minimum final depth of two feet, one soil sample was collected for every 1,000 square feet of area to be backfilled; this sample was analyzed for PCBs. The location of samples taken is shown on Figures 3 and 4. The results of the analyses are included on the figures and are summarized below:

**Table 3-1
In-Place Sample Analysis
Operable Unit 19, Site 84
Phase III NTCRA
MCB Camp Lejeune, North Carolina**

SAMPLE NO.	PCB (ppm)
CLJ84-IP-01	0.056
CLJ84-IP-02	0.44
CLJ84-IP-03	2.0
CLJ84-IP-03-DUP	1.9
CLJ84-IP-04	0.085
CLJ84-IP-05	0.44
CLJ84-IP-06	0.48
CLJ84-IP-07	0.8
CLJ84-IP-08	2.9
CLJ84-IP-09	2.0

SAMPLE NO.	PCB (ppm)
CLJ84-IP-10	78 (see Note 3)
CLJ84-IP-10-DUP	67 (see Note 3)
CLJ84-IP-11	2.4
CLJ84-IP-12	4.2
CLJ84-IP-13	0.27
CLJ84-IP-14	0.045
CLJ84-IP-15	0.26
CLJ84-IP-16	0.84
CLJ84-IP-16-DUP	0.4
CLJ84-IP-17	200
CLJ84-IP-18	42
CLJ84-IP-19	360
CLJ84-IP-20	51
CLJ84-IP-21	3.5

Notes:

1. PCB analysis by EPA Method 8082.
2. Shaded areas denote PCB concentrations greater than 10 ppm.
3. PCB concentrations were less than 10 ppm to a depth of two feet for samples taken west (downgradient) of Sample IP-10 in December 2005 (i.e., samples TP-19 and TP-30) (Rhēa, September 2006).

3.3 SIDEWALL SAMPLING

As the excavation progressed, samples were collected from locations on the sidewalls and were field screened for PCBs using the Dexsil analyzer. Sidewall samples were collected by scraping the sidewall from bottom to top with the bucket of an excavator. Five sub-samples were taken from the excavator bucket and mixed in a stainless steel bowl. The goal of the excavation was to remove and dispose of highly contaminated soil (i.e., > 50 ppm PCBs), if possible. Sidewalls exhibiting greater than 50 ppm of PCBs were re-screened following further excavation. Soil samples from the final seven field screening locations were sent to the laboratory for analysis. The locations of the final sidewall samples are shown on Figure 3, and the results of the analyses are provided on the figure and are summarized below. Note that two sidewall samples along the western excavation wall exceeded 50 ppm PCB; however, excavation was not possible in this area, as discussed above, because of the high concentration of critical communication lines buried here.

Table 3-2
Sidewall Sample Analysis
Operable Unit 19, Site 84
Phase III NTCRA
MCB Camp Lejeune, North Carolina

SAMPLE NO.	PCB (ppm)
CLJ84-SW-01	8.2
CLJ84-SW-02	20
CLJ84-SW-03	11
CLJ84-SW-04	36
CLJ84-SW-05	79
CLJ84-SW-06	960
CLJ84-SW-07	30

Notes:

PCB analysis by EPA Method 8082.

Shaded areas denote PCB concentrations greater than 10 ppm.

3.4 DISPOSAL SAMPLING

During the excavation phase, soil was stored in a windrow for ease of sampling and disposal. The excavator bucket was used to scrape samples from the windrow at intervals along its length. Sub-samples from the bucket were mixed and analyzed. These samples were field screened for PCBs at a concentration of 50 ppm using the Dexsil analyzer. The results of the field screening of the disposal samples showed that the entire disposal windrow contained greater than 50 ppm of PCBs and would need to be transported from the site and disposed of at the Wayne Disposal Facility. See Appendix E for the disposal sample results.

3.5 QA/QC SAMPLING

In accordance with the Master Project Plans (CH2M HILL 2005), the required QA/QC samples were taken. These included field duplicates (ten percent of field samples), MS/MSD samples (five percent of field samples each), equipment blanks (one per day), and field blanks (one per sampling event). For the removal action, the field blank was the decontamination water poured directly into the sample container. The equipment blank, which is a check of the effectiveness of decontamination procedures, was decontamination water poured into the sampling device (e.g., stainless steel spoon and bowl for collecting and mixing the soil sample), then poured into the sample container. See Appendix E for the QA/QC sample results.

3.6 DATA VALIDATION SUMMARY

Data validation was performed on the pre-removal soil sample analytical results, the in-place sampling results, the final sidewall sampling results, and the QA/QC sampling results. According to the Data Validation Memorandums included as Appendix G, “. . . the checked data were within acceptable quantitation and qualification limits. Minor issues were identified and qualifiers added, as appropriate. No major issues, however, were identified during the data validation effort.”

4.0 SUMMARY OF PROJECT COSTS

This section presents the costs associated with the Phase III NTCRA. The total cost for the Site 84 Phase III NTCRA was \$478,977. Table 4-1 presents a breakdown of these project costs. The final cost for the Phase III NTCRA increased by \$156,564 through two change orders. Two change orders were required during the course of the project due to: 1) an increased volume of PCB contaminated soil identified during the supplemental field investigations (above what was estimated for the initial cost proposal), 2) an increased cost for transportation and disposal of the PCB-contaminated soil above what was estimated for the initial cost proposal, 3) the addition of the entire site revegetation to the scope, and 4) the extension of fencing to Northeast Creek.

**Table 4-1
Project Costs
Operable Unit 19, Site 84
Phase III NTCRA
MCB Camp Lejeune, North Carolina**

MAJOR PROJECT TASKS	COST (\$)
Preparatory Work; Excavation; Transportation; Disposal; Backfill; Road Reconstruction; Revegetation of Phase III Area	\$182,413
Increased Excavation Soil Volume; Increased Transportation & Disposal	*\$263,337
Entire Site Revegetation – Increased Area	\$14,819
Fence Installation to Northeast Creek	\$18,408
TOTAL	\$478,977

*Note that \$140,000 of this total was not part of a change order but was taken from original project costs that had not been spent on document review, recommendations development, and report preparation; therefore total change orders related to the Phase III NTCRA totaled \$156,564.

REFERENCES

Baker (Michael Baker Jr., Inc.), "Final Relative Risk Ranking System Data Collection Investigation," November 14, 1995.

Baker, "Pre-Remedial Investigation Screening Study Sites 12, 68, 75, 76, 84, 85 and 87, Marine Corps Base, Camp Lejeune, North Carolina," November 1998.

Baker, "Concrete Chip and Surface Water Sampling Report, Building 45," December 1999.

Baker, "Final Remedial Investigation, Site 84, Operable Unit 19, MCB Camp Lejeune, North Carolina," June 2002.

Baker, "Final Engineering Evaluation/Cost Analysis (EE/CA), Site 84/Building 45 Area, Operable Unit No. 19, Marine Corps Base, Camp Lejeune, North Carolina," October 22, 2002.

Baker, "Final Action Memorandum, Site 84, OU 19, MCB Camp Lejeune, North Carolina," October 2002.

Baker, "Final Phase II Remedial Action Work Plan, MCB Camp Lejeune, North Carolina," October 2003.

CH2M HILL, "Final Master Project Plans, MCB Camp Lejeune, Jacksonville, North Carolina," August 2005.

OHM Remediation Services Corp., "Draft for Phase I PCB Cleanup and Foundation Removal, Site 84, Building 45, MCB Camp Lejeune, North Carolina," January 2003.

Rhēa, "Final Recommendations Report, Review, Recommendations, and Removal Action, Site 84, Operable Unit 19, MCB Camp Lejeune, North Carolina," September 2006.

TMS and Baker, "Final Site 84, Operable Unit 19, Phase II Interim Removal Action, Closeout Report, Marine Corp Base, Camp Lejeune, North Carolina," March 2005.

United States Environmental Protection Agency, "A Guide on Remedial Actions at Superfund Sites With PCB Contamination," Office of Emergency and Remedial Response, Hazardous Site Control Division (OS-220), Quick Reference Fact Sheet. August 1990.

FIGURES

MAY 2007	PLOT DATE	1:1	M.C.	DRAWN BY	CHECKED BY	MG	MG	CAD FILE NUMBER	273 - A1 - F1	REVISION	DATE	DESCRIPTION
----------	-----------	-----	------	----------	------------	----	----	-----------------	---------------	----------	------	-------------



SITE 84 OPERABLE UNIT 19
NAVFAC MID-ATLANTIC

FIGURE 1 – SITE LOCATION MAP

MCB CAMP LEJEUNE, NORTH CAROLINA



R H E A
Engineers & Consultants, Inc.
4951 William Flynn Highway
Gibsonia, PA 15044

NORTHEAST CREEK

EDGE OF BANK

FENCE LINE

PHASE II
NTCRA

FORMER RAILROAD

N.C. HWY 24

GRAVEL ACCESS ROAD

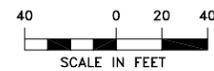
PHASE I
NTCRA

PHASE III
NTCRA

CP&L
SUBSTATION

LEGEND

NTCRA NON-TIME CRITICAL
REMOVAL ACTION



PRINTED DATE: MAY 2007

NO.	DESCRIPTION	DATE	BY
4			
3			
2			
1			
REVISIONS			

SITE 84 OPERABLE UNIT 19
NAVFAC MID-ATLANTIC

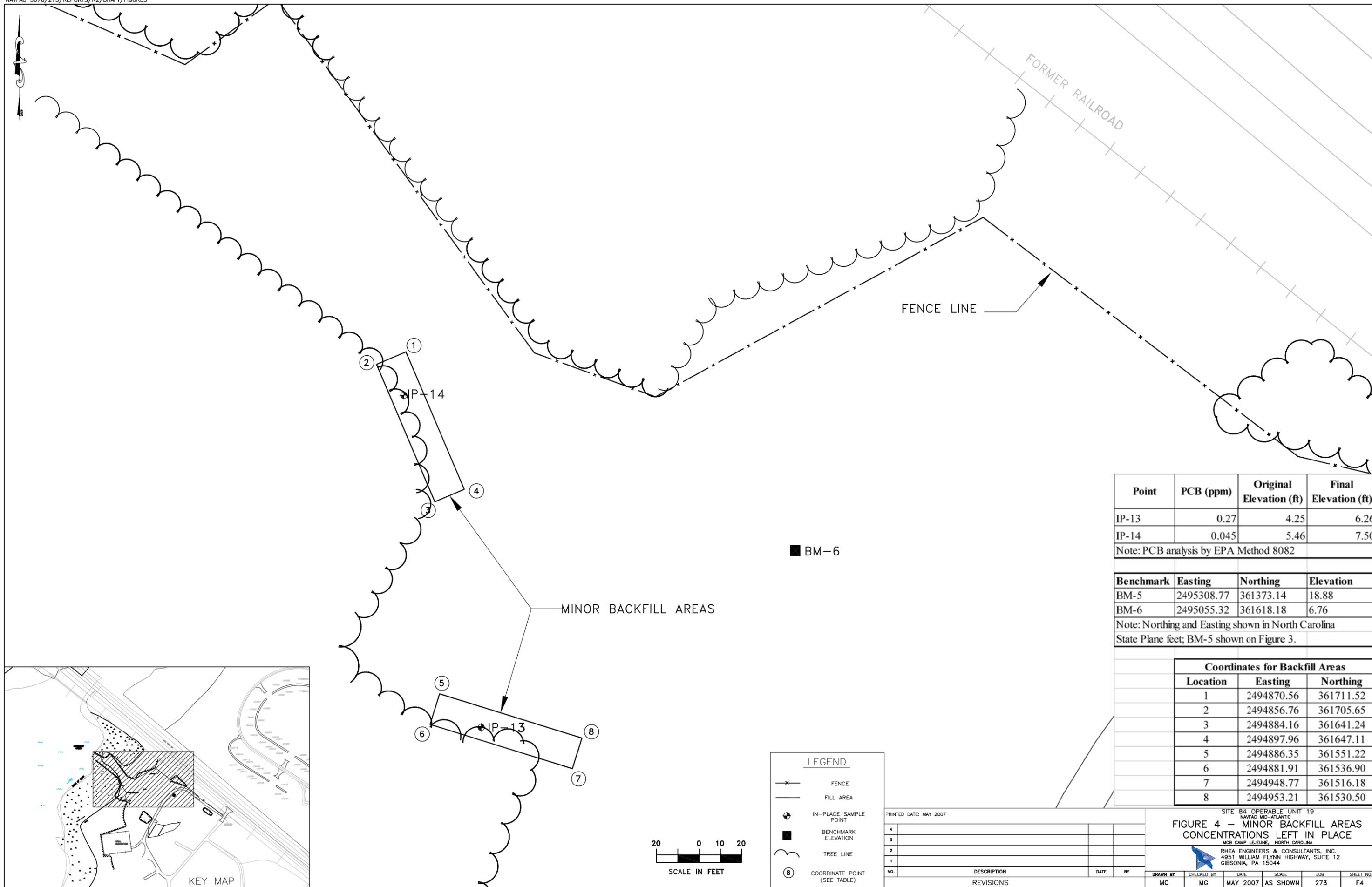
FIGURE 2 - SITE 84 PLAN VIEW

MCB CAMP LEJEUNE, NORTH CAROLINA



RHEA ENGINEERS & CONSULTANTS, INC.
4951 WILLIAM FLYNN HIGHWAY, SUITE 12
GIBSONIA, PA 15044

DRAWN BY	CHECKED BY	DATE	SCALE	JOB	SHEET NO.
MC	MG	MAY 2007	AS SHOWN	273	F2



Point	PCB (ppm)	Original Elevation (ft)	Final Elevation (ft)
IP-13	0.27	4.25	6.26
IP-14	0.045	5.46	7.50

Note: PCB analysis by EPA Method 8082

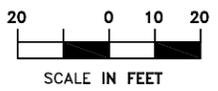
Benchmark	Easting	Northing	Elevation
BM-5	2495308.77	361373.14	18.88
BM-6	2495055.32	361618.18	6.76

Note: Northing and Easting shown in North Carolina State Plane feet; BM-5 shown on Figure 3.

Coordinates for Backfill Areas		
Location	Easting	Northing
1	2494870.56	361711.52
2	2494856.76	361705.65
3	2494884.16	361641.24
4	2494897.96	361647.11
5	2494886.35	361551.22
6	2494881.91	361536.90
7	2494948.77	361516.18
8	2494953.21	361530.50

LEGEND

- x— FENCE
- FILL AREA
- ⊕ IN-PLACE SAMPLE POINT
- BENCHMARK ELEVATION
- ~ TREE LINE
- Ⓢ COORDINATE POINT (SEE TABLE)



PRINTED DATE: MAY 2007

NO.	DESCRIPTION	DATE	BY

SITE 84 OPERABLE UNIT 19
NAVFAC MID-ATLANTIC

FIGURE 4 -- MINOR BACKFILL AREAS CONCENTRATIONS LEFT IN PLACE

MCB CAMP LEJUNE, NORTH CAROLINA

RHEA ENGINEERS & CONSULTANTS, INC.
4951 WILLIAM FLYNN HIGHWAY, SUITE 12
GIBSONIA, PA 15044

DRAWN BY	CHECKED BY	DATE	SCALE	JOB	SHEET NO.
MC	MG	MAY 2007	AS SHOWN	273	F4

APPENDIX A
SAFETY MEETING MINUTES



HS 4-2
DAILY SAFETY MEETING

Date: 6/6/16

Time: 0715

HSO: N. McCullar

Site Location: Site 84, COMP LEASONS

Safety Topics Presented

Issue	Today's Work Areas			
	Site 84	Scrap		
Chemicals of Concern	PCB	-		
	TPH	-		
Physical Hazards of Concern	WEATHER →			
	LIGHTNING →			
	POWER LINES			
	EQUI P/1647			
Special Concerns				

Attendees (Please Print)

C.S. White _____

Ray Jackson _____

Jim Brown _____

Kirk Patton _____

Barbara Jones _____

Greg Thompson _____

Camelia Young _____

Lloyd Evans _____

Site Superintendent: _____

Date: _____



**DAILY SAFETY MEETING
REMOVAL ACTION
SITE 84 OPERABLE UNIT 19
MCB CAMP LEJEUNE, NORTH CAROLINA**

Date: 6/18/16 Time: 0710
 Site Location: SITE 84 CAMP LEJEUNE

SHSO: A. Melouan

Safety Topics Presented

Issue	Today's Work Areas			
Chemicals of Concern	MCBS			
Physical Hazards of Concern	OVERLEAD			
	WIRING			
	TEMPERATURE			
	TRAFFIC			
Special Concerns				

Attendees (Please Print)

<u>Kurt Patlock</u>	_____
<u>Cameron Young</u>	_____
<u>[Signature]</u>	_____
<u>[Signature]</u>	_____
<u>[Signature]</u>	_____
_____	_____
_____	_____
_____	_____

Site Superintendent: _____

Date: _____



**HS 4-2
DAILY SAFETY MEETING**

Date: 8-1-06 Time: _____ HSO: _____

Site Location: SITE 84

Safety Topics Presented

Issue	Today's Work Areas			
Chemicals of Concern	PCB			
	TPH			
Physical Hazards of Concern	HEAT			
	WEATHER			
	EQUIPMENT			
Special Concerns				

David P. Krieger
afwhite
Man Mullin
Nick McLellan
Joseph Randolph
Jason Smith

Attendees (Please Print)

DAVID P. KRIEGLER 8/1/06
afwhite 8/1/06
~~John King~~ 8/1/06
Jan Radup 8/2/06
8/3/06

Site Superintendent: _____

Date: _____



**HS 4-2
DAILY SAFETY MEETING**

Date: 8-4-6

Time: 0740

HSO: N. McCuan

Site Location: MCBLL SITE 84

Safety Topics Presented

Issue	Today's Work Areas			
Chemicals of Concern	PLB			
	TPH			
Physical Hazards of Concern	HEAT			
	EQUIPMENT			
	WEATHER			
Special Concerns	PPG			

Attendees (Please Print)

MARCEY GALLUK
John A. Terry Jr.
PAUL M. FARLAND JR
JOSE A. CAJUZ
IVAN CONDOVA
JASON SMITH
NICH MCCUAN

[Signature]
[Signature]
[Signature]
[Signature]
[Signature]
[Signature]
[Signature]

Site Superintendent: N. McCuan

Date: 8-4-6



**DAILY SAFETY MEETING
REMOVAL ACTION
SITE 84 OPERABLE UNIT 19
MCB CAMP LEJEUNE, NORTH CAROLINA**

Date: Oct 9 2006 Time: 8 am

SHSO: M. G. G. G.

Site Location: Site 84 Camp Lejeune

Safety Topics Presented

Issue	Today's Work Areas			
Chemicals of Concern	N/A - all covered over			
Physical Hazards of Concern	slips, trips & falls			
	locks? lighting?			
Special Concerns	operating equipment			

Attendees (Please Print)

<u>C. J. White</u>	_____
<u>Desert Rendon</u>	_____
<u>Larry Fiedler</u>	_____
<u>Eric Hartwig</u>	_____
_____	_____
_____	_____
_____	_____
_____	_____

Site Superintendent: M. G. G. G.

Date: 10-9-06

APPENDIX B
DAILY PRODUCTION NOTES

DAILY PRODUCTION NOTES



Rhēa Engineers and Consultants

4951 William Flynn Highway, Suite 12

Gibsonia, PA 15044

Office: 724-443-4111 Fax: 724-443-4118

PROJECT NUMBER 273
 PROJECT NAME Site 84 Removal Action
 CLIENT NAVFAC
 SITE NAME MCB Camp Lejeune, Site 84
 SITE ADDRESS Jacksonville, North Carolina

TIME	REMARKS
	<p>M. Gallick and N. McCullar meet with David Kriegler of Lanier Surveying. Desired area for topo map too large to be completed in one day. Smaller area defined.</p> <p>Visited French Creek borrow site. Met with Danny Wallace and Shaw operator who would work at borrow pit. Met with representative of ROICC at borrow pit who indicated area where fill could be removed.</p> <p>Investigated proposed fenceline along future bike path and determined that placing fence outside of 25 foot right-of-way was not feasible because of vegetation. Discussed problem of fenceline with Robert Lowder and agreed to place fenceline inside of treeline instead of along right-of-way. Met with fence contractor and described layout.</p>

ACTION ITEMS

AM WEATHER	MAX TEMP	MIN TEMP
PM WEATHER	MAX TEMP	MIN TEMP

COMPLETED BY Nick McCullar DATE 4/27/2006 PAGE 1 OF 1

DAILY PRODUCTION NOTES



Rhēa Engineers and Consultants

4951 William Flynn Highway, Suite 12

Gibsonia, PA 15044

Office: 724-443-4111 Fax: 724-443-4118

PROJECT NUMBER 273
 PROJECT NAME Site 84 Removal Action
 CLIENT NAVFAC
 SITE NAME MCB Camp Lejeune, Site 84
 SITE ADDRESS Jacksonville, North Carolina

TIME	REMARKS
	<p>Sub samples for pre-disposal analysis were collected in the following way:</p> <p>A line was stretched between points 300 and 303 (locations estimated), diagonally across the longest dimension of the excavation area. The length of the line was about 147 feet. Five points within the excavation area were selected at intervals of approximately feet 18 along the line. A 3-in diameter hand-auger was used to collect sub-samples from the selected locations down to a depth of 2-ft. All soil from each augered hold was placed on individual plastic sheets and homogenized. The auger was deconned between holes. After each sub-sample was excavated and homogenized, four spoonfuls of each sub-sample were composited in a stainless steel bowl. The pre-disposal samples were placed in jars, labeled, and sent for delivery to the lab and to the disposal facility.</p>

ACTION ITEMS

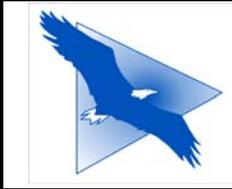
AM WEATHER	MAX TEMP	MIN TEMP
PM WEATHER	MAX TEMP	MIN TEMP

COMPLETED BY Nick McCullar	DATE 4/28/2006	PAGE 1 OF 1
----------------------------	----------------	-------------

DAILY PRODUCTION NOTES

Rhēa Engineers and Consultants

PROJECT NUMBER 273
 PROJECT NAME Site 84 Removal Action
 CLIENT NAVFAC
 SITE NAME MCB Camp Lejeune, Site 84
 SITE ADDRESS Jacksonville, North Carolina



4951 William Flynn Highway, Suite 12
 Gibsonia, PA 15044
 Office: 724-443-4111 Fax: 724-443-4118

TIME	REMARKS
	<u>Friday, June 2, 2006</u>
	A Shaw excavator at the borrow site excavated a stockpile of clean fill from the bed of French Creek. The fill was left to dry over the weekend.

ACTION ITEMS		

AM WEATHER	MAX TEMP	MIN TEMP
PM WEATHER	MAX TEMP	MIN TEMP

COMPLETED BY Nick McCullar	DATE 6/2/2006	PAGE 1 OF 1
----------------------------	---------------	-------------

DAILY PRODUCTION NOTES

PROJECT NUMBER 273
 PROJECT NAME Site 84 Removal Action
 CLIENT NAVFAC
 SITE NAME MCB Camp Lejeune, Site 84
 SITE ADDRESS Jacksonville, North Carolina



Rhēa Engineers and Consultants

4951 William Flynn Highway, Suite 12
 Gibsonia, PA 15044
 Office: 724-443-4111 Fax: 724-443-4118

TIME	REMARKS
	<u>Monday, June 5, 2006</u>
	Rhēa, the excavation subcontractor, and Cardinal arrived at the site as scheduled the morning of Monday, June 5, 2006. The crew from the excavation subcontractor included an additional worker. J. Pattock stated that the additional worker would not change the excavation subcontractor’s billing rate. The excavation subcontractor unloaded equipment, began installing silt fence, and established truck washing stations at the site and at the borrow site.
	Rhēa located surveying markers in place at the correct locations. Rhēa and Cardinal marked the excavation and capping areas, placed markers at the surface “in place” sampling locations and measured their location relative to the survey established baseline. Rhēa and Cardinal collected samples IP-1 through IP-14. The samples were packed in a cooler and retained over night.
	Utility locaters from AT&T/Sprint and Piedmont Natural Gas arrived at the site and marked utilities in the expected areas. Other utilities were found and marked by PLS. Piedmont Natural Gas located a natural gas line and right-of-way intersecting the proposed fence line and alerted Rhēa that an encroachment agreement might have to be completed.
	Workers from Shaw arrived at the site, along with C. Wallace, the Shaw supervisor. Shaw delivered decon water and IDW drums to the site. A bulldozer and the excavator from the borrow site were delivered to the site.
	Weather: Cool and cloudy morning, warming and clearing in the afternoon, rain showers overnight.

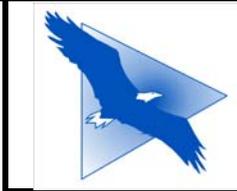
ACTION ITEMS

AM WEATHER	MAX TEMP	MIN TEMP
PM WEATHER	MAX TEMP	MIN TEMP
COMPLETED BY Nick McCullar	DATE Mon, Jun 5, 2006	PAGE 1 OF 1

DAILY PRODUCTION NOTES

Rhēa Engineers and Consultants

PROJECT NUMBER 273
 PROJECT NAME Site 84 Removal Action
 CLIENT NAVFAC
 SITE NAME MCB Camp Lejeune, Site 84
 SITE ADDRESS Jacksonville, North Carolina



4951 William Flynn Highway, Suite 12
 Gibsonia, PA 15044
 Office: 724-443-4111 Fax: 724-443-4118

TIME	REMARKS
	<u>Tuesday, June 6, 2006</u>
	A health and safety meeting was held at the site.
	A Shaw operator and laborer left for the borrow site. A front-end loader was used to
	load clean fill at the borrow site into four trucks from Morton Trucking. The
	excavation subcontractor logged loads of clean fill as they arrived at the site. The
	excavation subcontractor determined that truck washing at the borrow site was
	limiting transportation of clean fill because the ground conditions at the borrow site
	were extremely muddy due to heavy military and construction traffic and the power
	washer was unable to fully clean each truck. Furthermore, previously tracked mud
	on the paved roads just outside of the borrow site was re-dirtying each truck. The
	excavation subcontractor decided to limit truck cleaning at the borrow site to removal
	of gross material and the pace of clean fill transport subsequently increased. Mud
	tracked on the paved road was removed by the excavation subcontractor and other
	contractors working at the site at the end of the day.
	Tiger visited the Marine Corps Base Camp Lejeune (MCBCL) truck scales and was
	informed that disposal trucks would have to be tared before loading and weighed
	after loading, that each truck would have to be loaded nearly full before departing,
	and that a weight manifest would have to be completed by MCBCL for each truck.

ACTION ITEMS		

AM WEATHER	MAX TEMP	MIN TEMP
PM WEATHER	MAX TEMP	MIN TEMP

COMPLETED BY Nick McCullar	DATE Tue, Jun 6, 2006	PAGE 1 OF 2
----------------------------	-----------------------	-------------

DAILY PRODUCTION NOTES

Rhēa Engineers and Consultants

PROJECT NUMBER 273
 PROJECT NAME Site 84 Removal Action
 CLIENT NAVFAC
 SITE NAME MCB Camp Lejeune, Site 84
 SITE ADDRESS Jacksonville, North Carolina



4951 William Flynn Highway, Suite 12
 Gibsonia, PA 15044
 Office: 724-443-4111 Fax: 724-443-4118

TIME	REMARKS
	<p>At Site 84, a Shaw operator began work on the excavation area while another began spreading clean fill as it arrived. The excavator at the site was used to excavate the excavation area and construct the disposal windrow as planned. Disposal sampling was conducted from the windrow after it was completed instead of during the construction. Fifteen disposal samples DS-01 through DS-15 were collected during the day and retained in a cooler for field screening. Two sidewall samples SW-01 and SW-02 were taken from the southeast edge of the excavation (nearest the transformer stations). The sample cooler from the previous day was delivered to the laboratory without additional samples. Samples from June 6 were retained overnight in an additional cooler.</p>
	<p>Cardinal calibrated the Dexsil field screening instrument and conducted field screening. Samples SW-01, SW-02, and DS-01 through DS-04 were field screened at the site. The remaining disposal samples DS-05 through DS-015 were field screened off site in the evening.</p>
	<p>Field screening determined samples SW-01 and SW-02 to contain less than 50 ppm of PCBs. The samples were bottled for laboratory analysis but were mislabeled, both reading SW-01. The laboratory samples were re-designated SW-01A and SW-01B. Laboratory analysis found both samples to contain less than 50 ppm of PCBs.</p>
	<p>The disposal windrow was covered with plastic at the end of the work day.</p>
	<p>Weather: Cool and cloudy morning, warming and clearing in the afternoon, rain showers overnight.</p>

ACTION ITEMS		

AM WEATHER	MAX TEMP	MIN TEMP
PM WEATHER	MAX TEMP	MIN TEMP

COMPLETED BY Nick McCullar	DATE Tue, Jun 6, 2006	PAGE 2 OF 2
----------------------------	-----------------------	-------------

DAILY PRODUCTION NOTES

PROJECT NUMBER 273
 PROJECT NAME Site 84 Removal Action
 CLIENT NAVFAC
 SITE NAME MCB Camp Lejeune, Site 84
 SITE ADDRESS Jacksonville, North Carolina



Rhēa Engineers and Consultants

4951 William Flynn Highway, Suite 12
 Gibsonia, PA 15044
 Office: 724-443-4111 Fax: 724-443-4118

TIME	REMARKS
	<u>Wednesday, June 7, 2006</u>
	Clean fill deliveries continued from the borrow site. One Shaw operator remained at the site to spread clean fill with the bulldozer and operate the excavator to collect samples. Clean fill was placed and graded over the main capping area and additional fill was stockpiled adjacent to the excavation area and on the road north of the disposal truck loading area.
	The results of the field screening of the disposal samples showed that the entire disposal windrow contained greater than 50 ppm of PCBs and would need to be transported from the site instead of only half as had been expected. Rhēa believed that funding was available to transport the entire volume of soil from the site. This was communicated to the excavation subcontractor. The excavation subcontractor stated that 15 trucks had been scheduled to handle the expected volume of soil. The excavation subcontractor confirmed that the expected 15 trucks had been dispatched.
	Sidewall samples SW-03 and SW-04 were collected and field screened. Excavation floor samples IP-15 through IP-17 were collected for laboratory analysis. Field screening of sidewall sample SW-03 determined that it contained greater than 50 ppm of PCBs. Sidewall 3 was expanded about three feet by the excavator. Sidewall sample SW-03B was collected and field screened with a result less than 50 ppm of PCBs.
	At the end of the work day, a pad of clean fill was placed between the excavation area and the road. The excavator was decontaminated and placed on the pad of clean fill in preparation for disposal truck loading.
	Weather: warm and overcast with intermittent light rain, thunderstorms starting in evening and continuing overnight.

ACTION ITEMS		

AM WEATHER	MAX TEMP	MIN TEMP
PM WEATHER	MAX TEMP	MIN TEMP

COMPLETED BY Nick McCullar	DATE Wed, Jun 7, 2006	PAGE 1 OF 1
----------------------------	-----------------------	-------------

DAILY PRODUCTION NOTES

Rhēa Engineers and Consultants

PROJECT NUMBER 273
 PROJECT NAME Site 84 Removal Action
 CLIENT NAVFAC
 SITE NAME MCB Camp Lejeune, Site 84
 SITE ADDRESS Jacksonville, North Carolina



4951 William Flynn Highway, Suite 12
 Gibsonia, PA 15044
 Office: 724-443-4111 Fax: 724-443-4118

TIME	REMARKS
	<u>Thursday, June 8, 2006</u>
	A health and safety meeting was held.
	Disposal trucks met the excavation subcontractor at the base scales to be tared and then arrived at Site 84. Thirteen trucks were loaded with soil and departed for the disposal facility. Two trucks were delayed in their arrival to the base and were not loaded this day.
	While loading was in progress it became obvious that the 15 expected trucks would be insufficient to transport the volume of excavated soil at the site. The excavation subcontractor contacted the transportation contractor to request more trucks. N. McCullar contacted E. DeLattre to explain the overage. N. McCullar stated to E. DeLattre that the budget was sufficient to dispose of the entire volume of soil excavated at the site, although only half of the volume had been expected to be removed based on pre-disposal testing.
	N. McCullar and E. DeLattre confirmed that Rhēa's contracts with the excavation subcontractor and the Navy stated a unit price for soil transportation and disposal and that the overage could be passed through.
	Rhēa decided to field screen soil samples along the new fence line because the proposed fence line had been relocated since the last discussion with the fence contractor and the contamination in the soils along the new fence line were not as well characterized as those along the previous fence line. Good characterization of the contamination in the soils reassured the fence contractor and provided options for soil disposal other than in the main excavation with other soils potentially containing between 10 ppm and 50 ppm of PCBs.
	A hand earth auger was used to collect eight samples along the proposed fence line, approximately one every 100 feet, to a depth of four feet. The fence line samples were field screened by Cardinal and were determined to contain less than 10 ppm of PCBs.

ACTION ITEMS		

AM WEATHER	MAX TEMP	MIN TEMP
PM WEATHER	MAX TEMP	MIN TEMP

COMPLETED BY Nick McCullar	DATE Thu, Jun 8, 2006	PAGE 1 OF 2
----------------------------	-----------------------	-------------

DAILY PRODUCTION NOTES



Rhēa Engineers and Consultants

4951 William Flynn Highway, Suite 12

Gibsonia, PA 15044

Office: 724-443-4111 Fax: 724-443-4118

PROJECT NUMBER 273
 PROJECT NAME Site 84 Removal Action
 CLIENT NAVFAC
 SITE NAME MCB Camp Lejeune, Site 84
 SITE ADDRESS Jacksonville, North Carolina

TIME	REMARKS
	<u>Friday, June 9, 2006</u>
	Two trucks not loaded the previous day were loaded.
	Sample coolers were delivered.
	Cardinal departed for Pittsburgh.
	<u>Saturday, June 10, 2006 - Sunday, June 11, 2006</u>
	Weather: intermittent heavy rain showers

ACTION ITEMS		

AM WEATHER	MAX TEMP	MIN TEMP
PM WEATHER	MAX TEMP	MIN TEMP

COMPLETED BY Nick McCullar | DATE Fri, Jun 9, 2006 | PAGE 1 OF 1

DAILY PRODUCTION NOTES

Rhēa Engineers and Consultants

PROJECT NUMBER 273
 PROJECT NAME Site 84 Removal Action
 CLIENT NAVFAC
 SITE NAME MCB Camp Lejeune, Site 84
 SITE ADDRESS Jacksonville, North Carolina



4951 William Flynn Highway, Suite 12
 Gibsonia, PA 15044
 Office: 724-443-4111 Fax: 724-443-4118

TIME	REMARKS
	<u>Monday, June 12, 2006</u>
	The excavation subcontractor reports that three trucks were available load soil. Taring and weighing of trucks was complicated by a loss of electrical power at the base scales due to lightning strikes the previous night.
	Two Bobcats and an earth auger attachment for a Bobcat arrive at the site. The fence contractor arrives at the site and begins laying out fence post locations. A Shaw laborer begins drilling fence posts as they are marked. No drilling is completed in the natural gas line right of way. Shaw estimates that 70 of the approximately 85 fence posts are dug.
	Rhēa collects samples SW-6 and IP-20. E. DeLattre arrives at the site.
	Rain begins in the afternoon, and the remaining windrow of contaminated soil is covered with plastic. The excavation subcontractor and Shaw refuel construction equipment.

ACTION ITEMS		

AM WEATHER	MAX TEMP	MIN TEMP
PM WEATHER	MAX TEMP	MIN TEMP

COMPLETED BY Nick McCullar DATE Mon, Jun 12, 2006 PAGE 1 OF 1

DAILY PRODUCTION NOTES

Rhēa Engineers and Consultants

PROJECT NUMBER 273
 PROJECT NAME Site 84 Removal Action
 CLIENT NAVFAC
 SITE NAME MCB Camp Lejeune, Site 84
 SITE ADDRESS Jacksonville, North Carolina



4951 William Flynn Highway, Suite 12
 Gibsonia, PA 15044
 Office: 724-443-4111 Fax: 724-443-4118

TIME	REMARKS
	<u>Tuesday, June 13, 2006</u>
	Six additional trucks are loaded with contaminated soil, completing the removal of the contaminated soil windrow. Final excavation floor samples and sidewall samples are collected and sent to the lab. The excavation area is backfilled. The road area is backfilled. Three truckloads of gravel are delivered to the site for reconstruction of the road in the capping area. Fabric and gravel are placed in the fill area to replace the road. The bulldozer attempts to push clean fill to the minor capping areas near Northeast Creek, but rain and mud make capping impossible.
	The fence contractor arrives at the site with fence posts and concrete. Shaw continues digging fence posts holes. Muddy conditions near Northeast Creek hamper operation of the Bobcat, so the fence contractor begins digging fence post holes in that area by hand. A utility locator from Piedmont Natural Gas arrives to supervise digging of fence post holes in the natural gas pipeline right-of-way.
	Before digging fence post holes in the natural gas right-of-way, Rhēa received a telephone call in the field from Robert Lowder of MCBCL Environmental Affairs Division. R. Lowder requested a drawing of the Rhēa visited the Onslow County register of deeds to locate a survey plat of the right-of-way easement referenced by R. Lowder. R. Lowder and Phillip Taylor of Piedmont Natural Gas discuss the location of the digging and the right of way on the telephone and verbally agree to allow the fence posts to be dug.
	The final post holes are dug and the fence contractor sets all fence posts in concrete.
	The excavation subcontractor begins loading trailer and replaces silt fence.

ACTION ITEMS			

AM WEATHER	MAX TEMP	MIN TEMP
PM WEATHER	MAX TEMP	MIN TEMP

COMPLETED BY Nick McCullar	DATE Tue, Jun 13, 2006	PAGE 1 OF 1
----------------------------	------------------------	-------------

DAILY PRODUCTION NOTES

PROJECT NUMBER 273
 PROJECT NAME Site 84 Removal Action
 CLIENT NAVFAC
 SITE NAME MCB Camp Lejeune, Site 84
 SITE ADDRESS Jacksonville, North Carolina



Rhēa Engineers and Consultants

4951 William Flynn Highway, Suite 12
 Gibsonia, PA 15044
 Office: 724-443-4111 Fax: 724-443-4118

TIME	REMARKS
	<u>Wednesday, June 14, 2006</u>
	Shaw cleans equipment and prepares it for pickup. Shaw and excavation
	subcontractor demob from site. Landscaping contractor visits site and decides that
	conditions are too muddy to plant. Chemical toilet picked up. Rhēa departs from
	site.

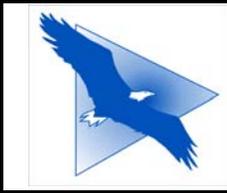
ACTION ITEMS		

AM WEATHER	MAX TEMP	MIN TEMP
PM WEATHER	MAX TEMP	MIN TEMP

COMPLETED BY Nick McCullar	DATE Wed, Jun 14, 2006	PAGE 1 OF 1
----------------------------	------------------------	-------------

DAILY PRODUCTION NOTES

PROJECT NUMBER 273 / 322
 PROJECT NAME Site 84 Remediation
 CLIENT NAVFAC
 SITE NAME MCB Camp Lejeune, Operable Unit 19, Site 84
 SITE ADDRESS Eastbound Highway 24, about 1/2 mile before Holcomb Boulevard and Camp Lejeune main gate



Rhēa Engineers and Consultants

4951 William Flynn Highway, Suite 12
 Gibsonia, PA 15044
 Office: 724-443-4111 Fax: 724-443-4118

TIME	REMARKS
0800	Marcy Gallick and Nick McCullar of Rhēa arrive at site.
0810	David Kriegler of Lanier Surveying arrives at site.
0830	David Kriegler begins locating boundaries of remediation area.
0900	Hertz rental service delivers bulldozer, John Deere 450J LGP
0930	Marcy Gallick begins taking photos of site.
	Nick McCullar calls Danny Wallace of Shaw to request that workers bring silt fence to the site.
1000	David Kriegler begins calculating elevation changes needed at points located in remediation area.
	Nick McCullar orders 40 tons of ABC (2A modified) gravel from Danny King of Needmore Construction Company (910-389-2344), at a price of \$19.50 per ton, and a total cost of \$780.00 contingent on quarry weight slips, to be paid within 30 days, to be delivered in up to three truckloads before 11:00 AM, Wednesday, August 2, 2006, one load possibly to be delivered by 6:00 PM of Tuesday, August 1, 2006.
1030	Marcy Gallick calls Jeff Shepard (910-554-9900) of Embarq (formerly Sprint) to request clarification of the requirements for the disposal of the two communications boxes on site.
1100	David Kriegler returns to Lanier Surveying office to get computer data for 22 elevation points in addition to 11 elevation points determined by hand, and will return by 12:00 PM
	Marcy Gallick and Nick McCullar depart site for lunch.
1210	Marcy Gallick and Nick McCullar return to site. C.J. White of Shaw at Site. David Kriegler not at site.
1230	Marcy Gallick called Brent Lanier (910-340-6868) of Lanier Surveying to contact David Kriegler. David Kriegler still at Lanier Surveying office and not ready to return to site.

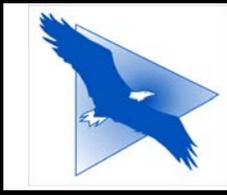
ACTION ITEMS

AM WEATHER	Hot, humid, high haze	MAX TEMP	95	MIN TEMP	85
PM WEATHER		MAX TEMP		MIN TEMP	

COMPLETED BY Nick McCullar	DATE Tuesday, Aug 1, 2006	PAGE 1 OF 2
----------------------------	---------------------------	-------------

DAILY PRODUCTION NOTES

PROJECT NUMBER 273 / 322
 PROJECT NAME Site 84 Remediation
 CLIENT NAVFAC
 SITE NAME MCB Camp Lejeune, Operable Unit 19, Site 84
 SITE ADDRESS Eastbound Highway 24, about 1/2 mile before Holcomb Boulevard and Camp Lejeune main gate



Rhēa Engineers and Consultants

4951 William Flynn Highway, Suite 12
 Gibsonia, PA 15044
 Office: 724-443-4111 Fax: 724-443-4118

TIME	REMARKS
1230	C.J. White departs site, will return when called.
1315	Nick McCullar uses commercial GPS to locate fence as-built.
1330	Brent Lanier and David Kriegler arrive at site.
1400	Brent Lanier and David Kriegler depart site. No further surveying to be performed by Lanier Surveying.
1415	Marcy Gallick and Nick McCullar depart for hotel.
1445	Nick McCullar and C.J. White use laser level to measure elevations at points marked by Lanier Surveying.
1515	C.J. White begins grading gross erosion channels and washouts at site, avoiding surveying marker in place.
1545	Nick McCullar determines elevation measurements to be inconsistent with observed depth of soil around bollards at points 164 and 122.
1630	C.J. White and Nick McCullar re-measure elevation at marked points.
1710	One truck load of gravel delivered by Danny King.
1730	Bulldozer used to scrape shallow trench for silt fence.
1745	Silt fence placed by hand and buried using bulldozer.
1800	C.J. White and Nick McCullar depart site.

ACTION ITEMS

AM WEATHER	Hot, humid, high haze	MAX TEMP	95	MIN TEMP	85
PM WEATHER		MAX TEMP		MIN TEMP	
COMPLETED BY	Nick McCullar	DATE	Tuesday, Aug 1, 2006	PAGE	2 OF 2

DAILY PRODUCTION NOTES

PROJECT NUMBER 273 / 322
 PROJECT NAME Site 84 Remediation
 CLIENT NAVFAC
 SITE NAME MCB Camp Lejeune, Operable Unit 19, Site 84
 SITE ADDRESS Eastbound Highway 24, about 1/2 mile before Holcomb Boulevard and Camp Lejeune main gate



Rhēa Engineers and Consultants

4951 William Flynn Highway, Suite 12
 Gibsonia, PA 15044
 Office: 724-443-4111 Fax: 724-443-4118

TIME	REMARKS
0730	Nick McCullar and Marcy Gallick arrive at site.
0745	Eric Hartwig of Mainscape arrives at site and drops off fertilizer, seed, and lime. Fire hydrant 214 located at site, possibly active. Mainscape asserts that they are permitted to take water from base owned hydrants.
0800	Shaw arrives at site, waiting for hot work permit to cut down bollards.
0815	Mainscape departs. Shaw cuts v-ditch along road.
0830	Mainscape to test hydrant this afternoon. Fire department arrives to deliver hot work permit.
0845	Jason Smith of Mainscape arrives with tractor (Massey -Ferguson 1240), spreader, cultivator and drag.
0900	Health and Safety meeting with Jason Smith. Points to avoid while disking site marked. Jason Smith departs to pick up hard hat and reflective vest.
0930	Jason Smith returns. Rhēa begins placing silt fence along road, removing silt fence from revegetation area. Fertilizer spreader does not attach to tractor.
1030	Mechanic from Mainscape repairs disk, fertilizer application begins.
1100	Rhēa finishes silt fence.
1200	Rhēa departs for lunch.
1300	Rhēa returns.
1345	Spreader will not detach from tractor.
1415	Jeff Shepard of Embarq arrives at site. Embarq to add a communication line leading from utility vault near "Spring 962-1" marker to CP&L transformer station and avoiding areas of contaminated soil. Embarq to abandon existing communication lines in contaminated soil. Boxes can be removed after old lines disconnected.

ACTION ITEMS	
To review with landscaper -	
-Health and safety plan	
-Mark obstacles and wells at site	
-Identify areas to be hand tilled and seeded (where tractor can't go)	

AM WEATHER	Hot, humid, high haze	MAX TEMP	110	MIN TEMP	100
PM WEATHER		MAX TEMP		MIN TEMP	

COMPLETED BY Nick McCullar	DATE Thu, Aug 3, 2006	PAGE 1 OF 2
----------------------------	-----------------------	-------------

APPENDIX C

DISPOSAL RECORDS / WEIGHT TICKETS

DRAFT FINAL PROJECT CLOSEOUT REPORT

Review, Recommendations, and Removal Action

Site 84 Operable Unit 19

MCB Camp Lejeune, North Carolina

Summary of Weight Tickets and Disposal Receipts

Manifest Number		Load Date	Weight - Generator			Weight - Disposal Facility
MCBCL	MI DEQ		(lbs)	(kg)	(tons)	(tons)
10279458	06121	06/08/06	48,600	22,045	24.30	24.47
10279459	06120	06/08/06	44,160	20,031	22.08	22.37
10279460	06122	06/08/06	49,680	22,534	24.84	25.16
10279461	06124	06/08/06	44,260	20,076	22.13	22.3
10279462	06125	06/08/06	48,920	22,190	24.46	24.69
10279463	06126	06/08/06	45,660	20,711	22.83	23.07
10279464	06127	06/08/06	44,640	20,248	22.32	22.53
10279465	06128	06/08/06	45,260	20,530	22.63	23.51
10279466	06129	06/08/06	44,360	20,121	22.18	22.44
10279467	06130	06/08/06	45,540	20,657	22.77	23.21
10279468	06131	06/08/06	46,340	21,019	23.17	23.48
10279469	06132	06/08/06	47,680	21,627	23.84	24.1
10279470	06133	06/08/06	42,540	19,296	21.27	21.57
10279471	06134	06/08/06	44,860	20,348	22.43	22.63
10279472	06135	06/09/06	43,760	19,849	21.88	22.3
10279473	06136	06/12/06	43,540	19,749	21.77	21.78
10279478	06151	06/12/06	43,140	19,568	21.57	21.74
10279474	06137	06/12/06	48,620	22,054	24.31	24.09
10279479	06152	06/12/06	46,540	21,110	23.27	23.4
10279475	06150	06/12/06	45,600	20,684	22.80	23.56
10279476	06149	06/12/06	45,000	20,412	22.50	22.69
10279477	06148	06/12/06	50,080	22,716	25.04	25
10279480	06153	06/12/06	45,760	20,756	22.88	23.47
10279481	06154	06/12/06	45,180	20,493	22.59	22.78
10279482	06155	06/13/03	46,060	20,892	23.03	23.21
10279640	06156	06/13/03	45,900	20,820	22.95	23.71
10279641	06157	06/13/03	45,140	20,475	22.57	22.85
10279643	06162	06/13/03	47,360	21,482	23.68	23.86
10279642	06161	06/13/03	46,180	20,947	23.09	23.3
10279644	06163	06/13/03	45,360	20,575	22.68	22.89
Totals			1,375,720	624,016	687.86	696.16

1 kg = 2.2046 lbs

1 ton = 2000 lbs

Date 6/8/06

THIS FORM IS SUBJECT TO THE PRIVACY ACT (NAVMC 11000)

WEIGHT CERTIFICATE

10279458

TRAFFIC MANAGEMENT OFFICE
MARINE CORPS BASE
CAMP LEJEUNE

U.S. Bulk

CUSTOMER

RANK

SSN

AGENCY

07:32am 06/08/06

31280 LB

CARRIER/VEHICLE TYPE

US Bulk

VEHICLE #

1523

09:29am 06/08/06

VEHICLE ID #

1523B

GROSS 79880 LB

TARE 31280 LB

DESTINATION/BLDG. #

NET 48600 LB

GBL/DOC # P.O. #

COMMODITY

Soil

22090.9 Kg

SHIPPER

WEIGHMASTER

Kaye Norton

MCBCL 4600/2 (REV 2-95)



WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF
ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE
ATT. DIS. REJ. PR.

Required under authority of Part 111 and
Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to
criminal and/or civil penalties under
Sections 324.11151 or 324.12116 MCL.

Please print or type.

Form Approved. OMB No. 2050-0039

**UNIFORM HAZARDOUS
WASTE MANIFEST**

1. Generator's US EPA ID No.
NC4 170 022 580

Manifest
Document No.
041-

2. Page 1
of 1

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

3. Generator's Name and Mailing Address
D S M C
C/O US LIQUIDS GA
36 MEVCE, S-1
CAMP LEJEUNE, NC 28542

A. State Manifest Document Number
MI 10279458

4. Generator's Phone (910) 530-3373

B. State Generator's ID

5. Transporter 1 Company Name
US Bulk Transport Inc

C. State Transporter's ID
28015161508

6. US EPA ID Number
PA0981317515

D. Transporter's Phone

7. Transporter 2 Company Name

E. State Transporter's ID

8. US EPA ID Number

F. Transporter's Phone

9. Designated Facility Name and Site Address
FA THE DISPOSAL SITE #2 LANDFILL
46750 N. I-94 SERVICE DRIVE
BELLVILLE, MI 48111

10. US EPA ID Number
MID 048 030 033

G. State Facility's ID

H. Facility's Phone
(800) 542-5409

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).

HM	12. Containers No. Type	13. Total Quantity	14. Unit Wt/Vol	1. Waste No.
a. RC WASTE POLYCHLORINATED BIPHENYLS, SOLID 1 UN312 PG II, UN	1 DT	221		PCBI
b.				
c.				
d.				

J. Additional Descriptions for Materials Listed Above

11a. 053106PAB / PCB SOIL

K. Handling Codes

a
b
c
d

15. Special Handling Instructions and Additional Information
STORAGE START DATE 06/08/06

EMERGENCY CONTACT #
UNIQUE CONTAINER ID

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: James L. Taylor Signature: [Signature] Date: 7/6/06

17. Transporter 1 Acknowledgment of Receipt of Materials
Printed/Typed Name: James Humphrey Signature: [Signature] Date: 07/06/06

18. Transporter 2 Acknowledgment of Receipt of Materials
Printed/Typed Name: _____ Signature: _____ Date: _____

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: _____

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOUR PER DAY.

GENERATOR

TRANSPORTER

FACILITY

WEIGHT CERTIFICATE

TRAFFIC MANAGEMENT OFFICE
MARINE CORPS BASE
CAMP LEJEUNE

U.S. Bulk
CUSTOMER RANK
SSN AGENCY
CARRIER/VEHICLE TYPE
VEHICLE #
VEHICLE ID # 14DA
DESTINATION/BLDG. #
GBL/DOC # P.O. #
COMMODITY Soil
SHIPPER
WEIGHMASTER Kaye Norton
MCBCL 4600/2 (REV 2-95)

07:35am 06/08/06

33920 LB

10:26am 06/08/06

GROSS 78060 LB
TARE 33920 LB
NET 44160 LB

20072.7

K5



WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF
ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE

ATT. DIS. REJ. PR.

Required under authority of Part 111 and Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to criminal and/or civil penalties under Sections 324.11151 or 324.12116 MCL.

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
MDG 170 022 680

Manifest Document No.
0020

2. Page 1 of 1

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

3. Generator's Name and Mailing Address
USMC
C/O US LIQUIDS, GA
36 MEWICKS-4
CAMP LEJUNE, NC 28542

A. State Manifest Document Number
MI 10279459
B. State Generator's ID

4. Generator's Phone (810) 520-9072

C. State Transporter's ID
UPW046176505
D. Transporter's Phone
800 609 6611

5. Transporter 1 Company Name
US Bulk Transport INC.

6. US EPA ID Number
PAD 987347515

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address
WAYNE DISPOSAL SITE #2 LANDFILL
49350 N. I-94 SERVICE DRIVE
BELLVILLE, MI 48111

10. US EPA ID Number
MID 048 050 630

E. State Transporter's ID
F. Transporter's Phone
G. State Facility's ID
H. Facility's Phone (810) 592-5482

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).

HM	12. Containers		13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
	No.	Type			
a. RC WASTE POLYCHLORINATED BIPHENYLS, SOLID, 3 UN3431, PG II, LD	1	DT	26072.7 kg	K	PCB1
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above
11a. 053106PAB PCB SOIL

K. Handling Codes
a.
b.
c.
d.

15. Special Handling Instructions and Additional Information
A. STORAGE START DATE: 6/8/06
EMERGENCY CONTACT# ()
UNIQUE CONTAINER ID

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: George L. Taylor
Signature: [Signature]
Date: 06/08/06

17. Transporter 1 Acknowledgment of Receipt of Materials
Printed/Typed Name: [Name]
Signature: [Signature]
Date: 06/08/06

18. Transporter 2 Acknowledgment of Receipt of Materials
Printed/Typed Name: [Name]
Signature: [Signature]
Date: [Date]

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: [Name]
Signature: [Signature]
Date: [Date]

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOUR PER DAY.

GENERATOR

TRANSPORTER

FACILITY

10279460

WEIGHT CERTIFICATE

TRAFFIC MANAGEMENT OFFICE
MARINE CORPS BASE
CAMP LEJEUNE

U.S. Bulk

CUSTOMER RANK

SSN AGENCY

CARRIER/VEHICLE TYPE

VEHICLE #

VEHICLE ID # 544-17

DESTINATION/BLDG. #

GBL/DOC # P.O. #

COMMODITY Soil

SHIPPER

WEIGHMASTER Kaye Norton

MCBCL 4600/2 (REV 2-95)

07:39am 06/08/06

28820 LB

10:22am 06/08/06

GROSS	78500 LB
TARE	28820 LB
NET	49680 LB

22581.8
KS



WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF
ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE
ATT. DIS. REJ. PR.

Required under authority of Part 111 and
Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to
criminal and/or civil penalties under
Sections 324.11151 or 324.12116 MCL.

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NC6 170 022 990	Manifest Document No. 06/122	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address U.S.M.C. C/O US LIQUIDS, GA 36 MEWCE 5-4 CAMP LEJEUNE, NC 28542			A. State Manifest Document Number MI 10279460		B. State Generator's ID	
4. Generator's Phone (810) 520-9972			6. US EPA ID Number PAD 98737515		C. State Transporter's ID DPW046192508	
5. Transporter 1 Company Name US Bulk Transport INC			8. US EPA ID Number		D. Transporter's Phone 800 609 6611	
7. Transporter 2 Company Name			10. US EPA ID Number		E. State Transporter's ID	
9. Designated Facility Name and Site Address WAYNE DISPOSAL SITE #2 LANDFILL 49750 N 1-94 SERVICE DRIVE BELLEVILLE, MI 48111			10. US EPA ID Number MID 045 090 633		F. Transporter's Phone	
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER) HM			12. Containers No. Type		13. Total Quantity	14. Unit Wt/Vol
a.	PO WASTE POLYCHLORINATED BIPHENYLS, SOLID, 9 UNK/100 PO H, UN		1	DT	2250.8	K
b.						
c.						
d.						
J. Additional Descriptions for Materials Listed Above 11a. 053100PAB / PCB SOIL					I. Waste No.	
					a	
					b	
					c	
					d	
15. Special Handling Instructions and Additional Information A STORAGE START DATE: 6/8/06			EMERGENCY CONTACT: () UNIQUE CONTAINER ID			
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 George L. Taylor			Signature George L. Taylor			Date Month Day Year 06 08 06
17. Transporter 1 Acknowledgment of Receipt of Materials			Signature			Date
Printed/Typed Name			Signature			Month Day Year
18. Transporter 2 Acknowledgment of Receipt of Materials			Signature			Date
Printed/Typed Name			Signature			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

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOUR PER DAY.

WEIGHT CERTIFICATE

TRAFFIC MANAGEMENT OFFICE
MARINE CORPS BASE
CAMP LEJEUNE

U.S. Bulk

CUSTOMER RANK

SSN AGENCY

CARRIER/VEHICLE TYPE

VEHICLE #

VEHICLE ID # 1001A

DESTINATION/BLDG. #

GBL/DOC # P.O. #

COMMODITY Soil

SHIPPER

WEIGHMASTER Kaye Norton

MCBCL 4600/2 (REV 2-95)

07:36am 06/09/06

33080 LB

10:36am 06/09/06

GROSS	77340 LB
TARE	33080 LB
NET	44260 LB

20118.1 Kg



WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF
ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE
ATT. DIS. REJ. PR.

Required under authority of Part 111 and Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to criminal and/or civil penalties under Sections 324.11151 or 324.12116 MCL.

Form Approved OMB No. 2050-0039

Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NC6 170 022 680	Manifest Document No. 00124	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address U.S.M.C. C/O US LIQUIDS, GA 36 MEWCE, S-4 CAMP LEJUNE, NC 28453			A. State Manifest Document Number MI 10273461		
4. Generator's Phone (910) 520-8972			B. State Generator's ID		
5. Transporter 1 Company Name US Bulk Transport Inc.		6. US EPA ID Number PA0 9773515	C. State Transporter's ID UPW046176708		
7. Transporter 2 Company Name		8. US EPA ID Number	D. Transporter's Phone 840 607 6611		
9. Designated Facility Name and Site Address WAYNE DISPOSAL SITE #2 LANDFILL 49350 N 194 SERVICE DRIVE BELLEVILLE, MI 48111		10. US EPA ID Number MID 048 080 633	E. State Transporter's ID		
			F. Transporter's Phone		
			G. State Facility's ID		
			H. Facility's Phone (800) 892-8459		
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER) HM		12. Containers No. Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	RD WASTE POLYCHLORINATED BIPHENYLS, SOLID, 3. UN3392, PG II, UN	1 07	22181	kg	PCB1
b.					
c.					
d.					
J. Additional Descriptions for Materials Listed Above 11a. 053105PAB / PCB SOIL					K. Handling Codes a. b. c. d.
15. Special Handling Instructions and Additional Information A. STORAGE START DATE: 6/8/06					EMERGENCY CONTACT# () UNIQUE CONTAINER ID
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: George L. Taylor		Signature: <i>George L. Taylor</i>		Date: Month Day Year 06 08 06	
17. Transporter 1 Acknowledgment of Receipt of Materials		Signature: <i>AA Withney</i>		Date: Month Day Year 06 08 06	
18. Transporter 2 Acknowledgment of Receipt of Materials		Signature:		Date:	
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	

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-313-7680 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOUR PER DAY.

GENERATOR

TRANSPORTER

FACILITY

WEIGHT CERTIFICATE

TRAFFIC MANAGEMENT OFFICE
MARINE CORPS BASE
CAMP LEJEUNE

U.S. Bulk
 CUSTOMER RANK
 SSN AGENCY
 CARRIER/VEHICLE TYPE
 VEHICLE #
 VEHICLE ID # 551A
 DESTINATION/BLDG. #
 GBL/DOC # P.O. #
 COMMODITY Soil
 SHIPPER
 WEIGHMASTER Kaige Norton

07:41am 06/08/06

29320 LB

10:48am 06/08/06

GROSS	78240 LB
TARE	29320 LB
NET	48920 LB

22236.3kg



WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF
ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE
ATT. DIS. REJ. PR.

Required under authority of Part 111 and Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to criminal and/or civil penalties under Sections 324.11151 or 324.12116 MCL.

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NC6 170 032 980	Manifest Document No. 06125	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.				
3. Generator's Name and Mailing Address U.S.M.C. C/O US LIQUIDS, GA 36 NEWCE, S-4 CAMP LEJEUNE, NC 28542			A. State Manifest Document Number MI 10279462		B. State Generator's ID				
4. Generator's Phone (910) 520-3872		6. US EPA ID Number PAD 98 73515		C. State Transporter's ID 0FW046196508		D. Transporter's Phone 1800 609 6641			
5. Transporter 1 Company Name OS BULK Transport INC.		7. Transporter 2 Company Name		E. State Transporter's ID		F. Transporter's Phone			
9. Designated Facility Name and Site Address WAYNE DISPOSAL SITE #1 LANDFILL 49350 N 194 SERVICE DRIVE BELLEVILLE, MI 48111		10. US EPA ID Number MID 048 030 633		G. State Facility's ID		H. Facility's Phone (800) 592-5489			
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM				12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	
a.	X	PCB WASTE POLYCHLORINATED BIPHENYLS, SOLID, B, UN3373, PG 1, UN.		1	DT	22236.3 kg	K	PCB1	
b.									
c.									
d.									
J. Additional Descriptions for Materials Listed Above 11a. 055106PAB / PCB SOIL								K. Handling Codes a. b. c. d.	
15. Special Handling Instructions and Additional Information A. STORAGE START DATE 6/9/06				EMERGENCY CONTACT# () UNIQUE CONTAINER ID 1800 609 6641					
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 George L. Taylor				Signature <i>[Signature]</i>				Date Month Day Year 6 9 06	
17. Transporter 1 Acknowledgment of Receipt of Materials				Signature <i>[Signature]</i>				Date Month Day Year	
18. Transporter 2 Acknowledgment of Receipt of Materials				Signature <i>[Signature]</i>				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.								Date	
Printed/Typed Name				Signature				Date Month Day Year	

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOUR PER DAY.

WEIGHT CERTIFICATE

TRAFFIC MANAGEMENT OFFICE
MARINE CORPS BASE
CAMP LEJEUNE

U.S. Bulk
CUSTOMER RANK
SSN AGENCY
CARRIER/VEHICLE TYPE
VEHICLE #
VEHICLE ID # 513A
DESTINATION/BLDG. #
GBL/DOC # P.O. #
COMMODITY Soil
SHIPPER
WEIGHMASTER Kaye Norton
MCBCL 4600/2 (REV 2-95)

07:42am 06/08/06

31600 LB

10:58am 06/08/06

GROSS 77260 LB
TARE 31600 LB
NET 45660 LB

20754,5 kg



WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF
ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE
ATT. DIS. REJ. PR.

Required under authority of Part 111 and
Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to
criminal and/or civil penalties under
Sections 324.11151 or 324.12116 MCL.

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NCB 173 022 580	Manifest Document No. 06126	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address U S M C C/O US LIQUIDS, GA 35 MEVUE, S W CAMP LEJEUNE, NC 28552		6. US EPA ID Number PAD 9773515		A. State Manifest Document Number MI 10279463	
4. Generator's Phone (910) 320-9072		7. Transporter 2 Company Name		B. State Generator's ID	
5. Transporter 1 Company Name US BIR Transport INC		8. US EPA ID Number		C. State Transporter's ID DPW046190506	
9. Designated Facility Name and Site Address WAYNE DISPOSAL SITE #2 LANDFILL 43350 N LISA SERVICE DRIVE BELLEVILLE, MI 48111		10. US EPA ID Number MID 048 030 633		D. Transporter's Phone 1800 609 6641	
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a.	X PO WASTE POLYCHLORINATED BIPHENYLS, SOLID, H, UN3432. PO II, UN	1	DT	20759.5	K
b.					
c.					
d.					
J. Additional Descriptions for Materials Listed Above 11a 053106FAB / PCB SOIL					I. Waste No. PCB1
15. Special Handling Instructions and Additional Information A STORAGE START DATE 6/8/06 EMERGENCY CONTACT# () UNIQUE CONTAINER ID 7100 609 6641					K. Handling Codes a. b. c. d.
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		Signature		Date Month Day Year	
17. Transporter 1 Acknowledgment of Receipt of Materials		Signature		Date Month Day Year	
Printed/Typed Name		Signature		Date Month Day Year	
18 Transporter 2 Acknowledgment of Receipt of Materials		Signature		Date Month Day Year	
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.					Date Month Day Year
Printed/Typed Name		Signature		Date Month Day Year	

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-9802 24 HOUR PER DAY.

WEIGHT CERTIFICATE

TRAFFIC MANAGEMENT OFFICE
MARINE CORPS BASE
CAMP LEJEUNE

U.S. Bulk

CUSTOMER RANK

SSN AGENCY

CARRIER/VEHICLE TYPE

VEHICLE #

VEHICLE ID # 186A

DESTINATION/BLDG. #

GBL/DOC # P.O. #

COMMODITY Soil

SHIPPER

WEIGHMASTER Kaye Norton

MCBCL 4600/2 (REV 2-95)

07:37 am 06/08/06

33520 LB

11:04 am 06/08/06

GROSS 78160 LB
TARE 33520 LB
NET 44640 LB

20290.9 Kg



WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF
ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE
ATT. DIS. REJ. PR.

Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to
criminal and/or civil penalties under
Sections 324.11151 or 324.12116 MCL.

Form Approved. OMB No. 2050-0039

Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NC6 170 022 590	Manifest Document No. 06127	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address U.S.M.C. C/O US LIQUIDS, GA 36 MEWCE, S-4 CAMP LEJEUNE, NC 28552		4. Generator's Phone (910) 520-2472		A. State Manifest Document Number MI 10279464		B. State Generator's ID
5. Transporter 1 Company Name OS Bulk Transport, Inc		6. US EPA ID Number PAD 9223415		C. State Transporter's ID DPW046196508		D. Transporter's Phone 1800 609 6641
7. Transporter 2 Company Name		8. US EPA ID Number		E. State Transporter's ID		F. Transporter's Phone
9. Designated Facility Name and Site Address WAYNE DISPOSAL SITE #2 LANDFILL 49360 N 104 SERVICE DRIVE BELLEVILLE, MI 48111		10. US EPA ID Number MID 045 090 533		G. State Facility's ID		H. Facility's Phone (800) 592-5489
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RC WASTE POLYCHLORINATED BIPHENYLS, SOLID, 9. UN3132, RC II, UN		1	DT	20296.9 KS	F	PCB1
b.						
c.						
d.						
J. Additional Descriptions for Materials Listed Above 11s 053106PAB / PCB SOIL						K. Handling Codes a b c d
15. Special Handling Instructions and Additional Information A STORAGE START DATE 6/1/00		EMERGENCY CONTACT # () UNIQUE CONTAINER ID 1800 609 6641				
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.						Date Month Day Year 06 10 06
Printed/Typed Name James J. Taylor		Signature <i>[Signature]</i>				Date Month Day Year
17. Transporter 1 Acknowledgment of Receipt of Materials Printed/Typed Name James J. Taylor		Signature <i>[Signature]</i>				Date Month Day Year 06 10 06
18. Transporter 2 Acknowledgment 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.						Date Month Day Year
Printed/Typed Name		Signature				Date Month Day Year

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOUR PER DAY.

GENERATOR

TRANSPORTER

FACILITY

WEIGHT CERTIFICATE

TRAFFIC MANAGEMENT OFFICE
MARINE CORPS BASE
CAMP LEJEUNE

Strong Trucking
 CUSTOMER RANK
 SSN AGENCY
 CARRIER/VEHICLE TYPE
 VEHICLE #
 VEHICLE ID # 123A
 DESTINATION/BLDG. #
 GBL/DOC # P.O. #
 COMMODITY Soil
 SHIPPER
 WEIGHMASTER Kaye Norton
 MCBCL 4600/2 (REV 2-95)

07:34am 06/08/06

34140 LB

11:12am 06/08/06

GROSS	79400 LB
TARE	34140 LB
NET	45260 LB

20572.7 Kg



WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF
ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE
ATT. DIS. REJ. PR.

Required under authority of Part 111 and
Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to
criminal and/or civil penalties under
Sections 324.11151 or 324.12116 MCL.

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NC8 170 622 589	Manifest Document No. 06123	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address USMC C/O US LIQUIDS, GA 36 MEWCE S-4 CAMP LEJEUNE, NC 28552			A. State Manifest Document Number MI 10279465		B. State Generator's ID	
4. Generator's Phone (919) 320-8872			6. US EPA ID Number PAD 9873515		C. State Transporter's ID DPLV046176509	
5. Transporter 1 Company Name US Bulk Transport inc.			7. Transporter 2 Company Name		D. Transporter's Phone 1800 609 6691	
9. Designated Facility Name and Site Address WAYNE DISPOSAL SITE #2 LANDFILL 48350 N 1-51 SERVICE DRIVE BELLEVILLE, MI 48111			8. US EPA ID Number		E. State Transporter's ID	
			10. US EPA ID Number MID 048 090 633		F. Transporter's Phone	
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER) HM			12. Containers No.	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	✓	PG WASTE POLYCHLORINATED BIPHENYLS, SOLID, 9, UN331 PG 1 UN	1	20572.7	kg	PCB1
b.						
c.						
d.						
J. Additional Descriptions for Materials Listed Above 11a 053106PAB / PCB SOIL					K. Handling Codes a. b. c. d.	
15. Special Handling Instructions and Additional Information A STORAGE START DATE 6/8/06			EMERGENCY CONTACT# () UNIQUE CONTAINER ID 1800 609 6691			
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 George L. Taylor			Signature <i>George L. Taylor</i>		Date 06/08/06	
17. Transporter 1 Acknowledgment of Receipt of Materials			Signature <i>Mark ...</i>		Date 06/08/06	
18. Transporter 2 Acknowledgment of Receipt of Materials			Signature		Date	
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	

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOUR PER DAY.

GENERATOR

TRANSPORTER

FACILITY

~~10279466~~

10279466

WEIGHT CERTIFICATE

TRAFFIC MANAGEMENT OFFICE
MARINE CORPS BASE
CAMP LEJEUNE

U.S. Bulk

CUSTOMER	RANK
SSN	AGENCY
CARRIER/VEHICLE TYPE	
VEHICLE #	
VEHICLE ID #	
DESTINATION/BLDG. #	
GBL/DOC # P.O. #	
COMMODITY	
SHIPPER	
WEIGHMASTER	
MCBCL 4600/2 (REV 2-95)	

178

Soil

Kay Norta

07:38am 06/08/06

35540 LB

11:11am 06/08/06

GROSS	79900 LB
TARE	35540 LB
NET	44360 LB

20163.6 Kg



WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF
ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE

ATT. DIS. REJ. PR.

Required under authority of Part 111 and Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to criminal and/or civil penalties under Sections 324.11151 or 324.12116 MCL.

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NC6 170 022 980	Manifest Document No. 06139	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address USMC C/O US LIQUIDS, GA 35 NEWCE 5-1 CAMP LEJUNE, NC 28452		6. US EPA ID Number PAD 977347515		A. State Manifest Document Number MI 10279466		
4. Generator's Phone (910) 520-9372		7. Transporter 1 Company Name US Bulk Transport inc		B. State Generator's ID		
5. Transporter 1 Company Name		8. US EPA ID Number		C. State Transporter's ID UPW04619504		
7. Transporter 2 Company Name		10. US EPA ID Number MID 048 090 633		D. Transporter's Phone 1800 609 6611		
9. Designated Facility Name and Site Address WAYNE DISPOSAL SITE #2 LANDFILL 43350 N 1-94 SERVICE DRIVE BELLVILLE, MI 48111		10. US EPA ID Number		E. State Transporter's ID		
				F. Transporter's Phone		
				G. State Facility's ID		
				H. Facility's Phone (800) 521-5189		
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	PC WASTE POLYCHLORINATED BIPHENYLS, SOLID, 9, UN3432, PG II, UN	1	DT	20163.4 Kg	K	PCB1
b.						
c.						
d.						
J. Additional Descriptions for Materials Listed Above 11a. 093106PAB / PCB SOIL						K. Handling Codes a b c d
15. Special Handling Instructions and Additional Information A. STORAGE START DATE 6/8/06 EMERGENCY CONTACT () UNIQUE CONTAINER ID 1800 609 6611						
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 George L. Taylor		Signature <i>George L. Taylor</i>		Date 06/08/06		
17. Transporter 1 Acknowledgment of Receipt of Materials						Date
Printed/Typed Name		Signature		Date		
18. Transporter 2 Acknowledgment of Receipt of Materials						Date
Printed/Typed Name		Signature		Date		
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.						Date
Printed/Typed Name		Signature		Date		

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8602 24 HOUR PER DAY.

WEIGHT CERTIFICATE

TRAFFIC MANAGEMENT OFFICE
MARINE CORPS BASE
CAMP LEJEUNE

U.S Bulk

CUSTOMER RANK

SSN AGENCY

CARRIER/VEHICLE TYPE

VEHICLE #

VEHICLE ID # 134A

DESTINATION/BLDG. #

GBL/DOC # P.O. #

COMMODITY Soil

SHIPPER

WEIGHMASTER Kaye Norton

MCBCL 4600/2 (REV 2-95)

09:32am 06/08/06

33100 LB

11:31am 06/08/06

GROSS	78640 LB
TARE	33100 LB
NET	45540 LB

20700.0
K3



WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF
ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE
ATT. DIS. REJ. PR.

Required under authority of Part 111 and Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to criminal and/or civil penalties under Sections 324.11151 or 324.12116 MCL.

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NC6 170 022 850	Manifest Document No. 06/30	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address USMC C/O US LIQUIDS, 134 36 NEWCE 3-4 CAMP LEJEUNE, NC 28552			A. State Manifest Document Number MI 10279467			
4. Generator's Phone (910) 520-9872			B. State Generator's ID			
5. Transporter 1 Company Name US BIK Transport INC.		6. US EPA ID Number PA0 77 734 7515	C. State Transporter's ID UPW09617650H			
7. Transporter 2 Company Name		8. US EPA ID Number	D. Transporter's Phone 1800 609 6641			
9. Designated Facility Name and Site Address WATNE DISPOSAL SITE #2 LANDFILL 48350 N 101 SERVICE DRIVE BELLEVILLE, MI 48111		10. US EPA ID Number MID 048 090 635		E. State Transporter's ID		
				F. Transporter's Phone		
				G. State Facility's ID		
				H. Facility's Phone (800) 582-5489		
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	PC WASTE POLYCHLORINATED BIPHENYLS, SOLID, 3, UN3032, PO II, UN	1	DT	20700.0 kg		PCB1
b.						
c.						
d.						
J. Additional Descriptions for Materials Listed Above 11a. 053106PAB / PCB SOIL					K. Handling Codes a. b. c. d.	
15. Special Handling Instructions and Additional Information A. STORAGE START DATE 6/1/06		EMERGENCY CONTACT# () UNIQUE CONTAINER ID 1800 609 6641				
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 George L. Toulou		Signature <i>George L. Toulou</i>		Date 06/08/06		
17. Transporter 1 Acknowledgment of Receipt of Materials		Signature <i>[Signature]</i>		Date		
Printed/Typed Name [Name]		Signature		Month Day Year		
18. Transporter 2 Acknowledgment of Receipt of Materials		Signature		Date		
Printed/Typed Name		Signature		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		

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOUR PER DAY.

WEIGHT CERTIFICATE

TRAFFIC MANAGEMENT OFFICE
MARINE CORPS BASE
CAMP LEJEUNE

~~US~~ *US Bulk*

CUSTOMER RANK

SSN AGENCY

CARRIER/VEHICLE TYPE

VEHICLE #

VEHICLE ID # *532A*

DESTINATION/BLDG. #

GBL/DOC # P.O. #

COMMODITY *Soil*

SHIPPER

WEIGHMASTER *Kaye Norton*

11:18am 06/08/06

32000 LB

12:42pm 06/08/06

GROSS	78340 LB
TARE	32000 LB
NET	46340 LB

21063.6 kg



WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF
ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE
ATT. DIS. REJ. PR.

Required under authority of Part 111 and
Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to
criminal and/or civil penalties under
Sections 324.11151 or 324.12116 MCL.

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NC6 170 022 880	Manifest Document No. 06121	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address USMC C/O US LIQUIDS, GA 36 NEWCE, S-4 CAMP LEJUNE, NC 28542			A. State Manifest Document Number MI 10279468		B. State Generator's ID	
4. Generator's Phone (910) 520-9972		6. US EPA ID Number 997347815		C. State Transporter's ID DPW046176504		D. Transporter's Phone 1800 609 6611
5. Transporter 1 Company Name US Bulk Transport, Inc.		8. US EPA ID Number		E. State Transporter's ID		F. Transporter's Phone
7. Transporter 2 Company Name		10. US EPA ID Number MI 043 080 633		G. State Facility's ID		H. Facility's Phone (300) 582-8480
9. Designated Facility Name and Site Address WAYNE DISPOSAL SITE #2 LANDFILL 49330 11 1-94 SERVICE DRIVE BELLEVILLE, MI 48111			12. Containers No. Type		13. Total Quantity	14. Unit Wt/Vol
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM a. x PG WASTE POLYCHLORINATED BIPHENYLS, SOLID, 9. UN331, PG II, UN			1		21063.6 Kg	PCBI
b.						
c.						
d.						
J. Additional Descriptions for Materials Listed Above 11b. 053106PAB / PCB SOIL					K. Handling Codes a. b. c. d.	
15. Special Handling Instructions and Additional Information A. STORAGE START DATE: 6/8/06			EMERGENCY CONTACT () UNIQUE CONTAINER ID: 1800 609 6611			
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 George L. Taylor				Signature <i>George L. Taylor</i>		Date Month Day Year 06 08 06
17. Transporter 1 Acknowledgment of Receipt of Materials				Signature <i>[Signature]</i>		Date Month Day Year 06 08 06
Printed/Typed Name [Name]				Signature <i>[Signature]</i>		Date Month Day Year 06 08 06
18. Transporter 2 Acknowledgment of Receipt of Materials				Signature		Date
Printed/Typed Name				Signature		Date
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

MICHIGAN FULLY FUN EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOUR PER DAY.

WEIGHT CERTIFICATE

TRAFFIC MANAGEMENT OFFICE
MARINE CORPS BASE
CAMP LEJEUNE

U.S. Bulk

CUSTOMER RANK

SSN AGENCY

CARRIER/VEHICLE TYPE

VEHICLE #

VEHICLE ID # T8

DESTINATION/BLDG. #

GBL/DOC # P.O. #

COMMODITY Soil

SHIPPER

WEIGHMASTER Kaye Norton

MCBCL 4600/2 (REV 2-95)

11:50am 06/08/06

32320 LB

12:55pm 06/08/06

GROSS	75680 LB
TARE	32320 LB
NET	43340 LB

01:28pm 06/08/06

GROSS	80000 LB
TARE	32320 LB
NET	47680 LB

21672.7 ^{kg}



WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF
ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE
ATT. DIS. REJ. PR.

Required under authority of Part 111 and Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to criminal and/or civil penalties under Sections 324.11151 or 324.12116 MCL.

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NC9 170 072 600	Manifest Document No. 06432	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address U.S.M.C. C/O US LIQUIDS, GA 39 MEADOWS-4 CAMP LEJEUNE, NC 28552			A. State Manifest Document Number MI 10279469		B. State Generator's ID	
4. Generator's Phone (910) 320-3472		6. US EPA ID Number PAD 987347515		C. State Transporter's ID DPW04619504		D. Transporter's Phone 1800 609 6611
5. Transporter 1 Company Name US Bulk Transport Inc.		8. US EPA ID Number		E. State Transporter's ID		F. Transporter's Phone
7. Transporter 2 Company Name		10. US EPA ID Number MID 048 090 633		G. State Facility's ID		H. Facility's Phone (800) 502-5459
9. Designated Facility Name and Site Address WAYNE DISPOSAL SITE #2 LANDFILL 43350 N 1-94 SERVICE DRIVE BELLEVILLE, MI 48111						
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM			12. Containers No. Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	PCB WASTE POLYCHLORINATED BIPHENYLS, SOLID, 9 UN3192, PG II, UN		1	DT	21672.7 KG	PCB1
b.						
c.						
d.						
J. Additional Descriptions for Materials Listed Above 11a. 053106PAB / PCB SOIL					K. Handling Codes a b c d	
15. Special Handling Instructions and Additional Information A. STORAGE START DATE: 6/2/06			EMERGENCY CONTACT# () - UNIQUE CONTAINER ID 1800 609 6611			
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 George L Taylor			Signature <i>George L Taylor</i>		Date Month Day Year 06 09 06	
17. Transporter 1 Acknowledgment of Receipt of Materials			Signature <i>Keith Warwick</i>		Date Month Day Year	
Printed/Typed Name Keith Warwick			Signature		Date	
18. Transporter 2 Acknowledgment of Receipt of Materials			Signature		Date	
Printed/Typed Name			Signature		Date	
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	

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOUR PER DAY.

WEIGHT CERTIFICATE

TRAFFIC MANAGEMENT OFFICE
MARINE CORPS BASE
CAMP LEJEUNE

US Bulk

CUSTOMER RANK

SSN AGENCY

CARRIER/VEHICLE TYPE

VEHICLE #

VEHICLE ID # 1013A

DESTINATION/BLDG. #

GBL/DOC # P.O. #

COMMODITY

SHIPPER *Soil*

WEIGHMASTER *Kaye Norton*

MCBCL 4600/2 (REV 2-95)

02:01 PM 06/08/06

31980 LB

03:15 PM 06/08/06

GROSS	74520 LB
TARE	31980 LB
NET	42540 LB

19336.3 Kg



WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF
ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE

ATT. DIS. REJ. PR.

Required under authority of Part 111 and
Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to
criminal and/or civil penalties under
Sections 324.11151 or 324.12116 MCL.

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NC6 170 022 680	Manifest Document No. 06133	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address U S M C C/O US LIQUIDS, GA 36 MEWCE 5-1 CAMP LEJELINE, NC 28481				A. State Manifest Document Number MI 10279470		
4. Generator's Phone (910) 330-9972				B. State Generator's ID		
5. Transporter 1 Company Name B BIK Transport Inc		6. US EPA ID Number DAD 987342515		C. State Transporter's ID 1800 609 6611		
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone 1800 609 6611		
9. Designated Facility Name and Site Address WAYNE DISPOSAL SITE #2 LANDFILL 49300 N 194 SERVICE DRIVE BELLEVILLE, MI 48111		10. US EPA ID Number MID 048 030 633		E. State Transporter's ID		
				F. Transporter's Phone		
				G. State Facility's ID		
				H. Facility's Phone (800) 602-5489		
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).			12. Containers	13. Total Quantity	14. Unit Wt/Vol	1. Waste No.
HM			No. Type			
a.	✓	PO WASTE POLYCHLORINATED BIPHENYLS, SOLID, 9, UN3493, PO IL UN	1 DT	19336.3		PCB1
b.						
c.						
d.						
J. Additional Descriptions for Materials Listed Above 11a. 033105PAE / PCB SOIL						K. Handling Codes a b c d
15. Special Handling Instructions and Additional Information A. STORAGE START DATE 6/8/06 EMERGENCY CONTACT () UNIQUE CONTAINER ID 1800 609 6611						
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 George L Taylor		Signature George L Taylor		Date 6/8/06		
17. Transporter 1 Acknowledgment of Receipt of Materials						Date
Printed/Typed Name K... ..		Signature K... ..		Date 6/8/06		
18. Transporter 2 Acknowledgment of Receipt of Materials						Date
Printed/Typed Name		Signature		Date		
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.						Date
Printed/Typed Name		Signature		Date		

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOUR PER DAY.

GENERATOR

TRANSPORTER

FACILITY

WEIGHT CERTIFICATE

TRAFFIC MANAGEMENT OFFICE
MARINE CORPS BASE
CAMP LEJEUNE

US Bulk
CUSTOMER RANK

SSN AGENCY

CARRIER/VEHICLE TYPE

VEHICLE #

VEHICLE ID # 1017A

DESTINATION/BLDG. #

GBL/DOC # P.O. #

COMMODITY Soil

SHIPPER

WEIGHMASTER Kaye Norton

MCBCL 4600/2 (REV 2-95)

02:04PM 06/08/06

30900 LB

03:19PM 06/08/06

GROSS 75760 LB
TARE 30900 LB
NET 44860 LB

20390.9



WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF
ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE

ATT. DIS. REJ. PR.

Required under authority of Part 111 and Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to criminal and/or civil penalties under Sections 324.11151 or 324.12116 MCL.

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NC6 170 022 880	Manifest Document No. 06134	2. Page 1 of	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address USMC 20 US LIQUIDS, GA 36 NEWCE, S-1 CAMP LEJEUNE, NC 28542		A. State Manifest Document Number MI 10279471		B. State Generator's ID		
4. Generator's Phone (910) 320-0972		C. State Transporter's ID UPW04 616704		D. Transporter's Phone 1800 609 1661		
5. Transporter 1 Company Name D5 Bulk Transport INC.		6. US EPA ID Number PAD 78 7347515		E. State Transporter's ID		
7. Transporter 2 Company Name		8. US EPA ID Number		F. Transporter's Phone		
9. Designated Facility Name and Site Address WAYNE DISPOSAL SITE #2 LANDFILL 43350 N. 7-94 SERVICE DRIVE BELLEVILLE, MI 48111		10. US EPA ID Number MID 048 030 693		G. State Facility's ID		
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID NUMBER). HM		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	RG WASTE POLYCHLORINATED BIPHENYLS, SOLID 9, UN330, PG II, UN	1	OT	20390.9 29		PCB1
b.						
c.						
d.						
J. Additional Descriptions for Materials Listed Above 11a. 053106PAB / PCB SOIL						K. Handling Codes a. b. c. d.
15. Special Handling Instructions and Additional Information A. STORAGE START DATE 6/7/06 EMERGENCY CONTACT# () UNIQUE CONTAINER ID 1800 609 6611						
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 George L Taylor		Signature <i>George L Taylor</i>		Date 06 09 06		
17. Transporter 1 Acknowledgment of Receipt of Materials						Date
Printed/Typed Name		Signature		Month Day Year		
18. Transporter 2 Acknowledgment of Receipt of Materials						Date
Printed/Typed Name		Signature		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.						Date
Printed/Typed Name		Signature		Month Day Year		

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOUR PER DAY.

GENERATOR

TRANSPORTER

FACILITY

DATE 6/9/06

THIS FORM IS SUBJECT TO THE PRIVACY ACT (NAVMC 11000)

10279472

WEIGHT CERTIFICATE

TRAFFIC MANAGEMENT OFFICE
MARINE CORPS BASE
CAMP LEJEUNE

US Bulk

CUSTOMER RANK

SSN AGENCY

CARRIER/VEHICLE TYPE

VEHICLE #

VEHICLE ID # ~~196A~~ 196A

DESTINATION/BLDG. #

GBL/DOC # P.O. #

COMMODITY Soil

SHIPPER

WEIGHMASTER Kaye Norton

MCBCL 4600/2 (REV 2-95)

02:21pm 06/08/06

33480 LB

09:09am 06/09/06

GROSS	77240 LB
TARE	33480 LB
NET	43760 LB

19890.9 Kg



WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF
ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE
ATT. DIS. REJ. PR.

Required under authority of Part 111 and Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to criminal and/or civil penalties under Sections 324.11151 or 324.12116 MCL.

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NC6 170 822 500	Manifest Document No. 110715	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address USMC C/O US LIQUIDS, GA 36 MEWCE, S-4 CAMP LEJEUNE, NC 28542			A. State Manifest Document Number MI 10279472		B. State Generator's ID	
4. Generator's Phone (910) 320-8872			C. State Transporter's ID UP104619630H		D. Transporter's Phone 1-202-689-6611	
5. Transporter 1 Company Name US Bulk Transport LLC		6. US EPA ID Number PAD 977347315	E. State Transporter's ID		F. Transporter's Phone	
7. Transporter 2 Company Name		8. US EPA ID Number	G. State Facility's ID		H. Facility's Phone (800) 593-5489	
9. Designated Facility Name and Site Address WAYNE DISPOSAL SITE #1 LANDFILL 49059 N 134 SERVICE DRIVE SEALEDVILLE, MI 48111		10. US EPA ID Number MID 049 030 513	I. Waste No.		J. Additional Descriptions for Materials Listed Above	
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM		12. Containers No. Type	13. Total Quantity	14. Unit Wt/Vol	K. Handling Codes	
a.	PCB WASTE POLYCHLORINATED BIPHENYLS, SOLID, 3 UN15032 PCB SOIL	1 01	176709 K9		a b c d	
b.						
c.						
d.						
15. Special Handling Instructions and Additional Information A STORAGE START DATE 6/9/16 EMERGENCY CONTACT () UNIQUE CONTAINER ID 1200 689 6611						
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 K. MICHAEL H. [Signature]		Signature		Date Month Day Year 10 17 16		
17. Transporter 1 Acknowledgment of Receipt of Materials		Printed/Typed Name Charles Harper for US Bulk		Signature		Date Month Day Year 10 07 16
18. Transporter 2 Acknowledgment 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.						Date
Printed/Typed Name		Signature		Month Day Year		

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOUR PER DAY.

DATE 6/9/06

THIS FORM IS SUBJECT TO THE PRIVACY ACT (NAVMC 11000)

10279472

WEIGHT CERTIFICATE

TRAFFIC MANAGEMENT OFFICE
MARINE CORPS BASE
CAMP LEJEUNE

US Bulk

CUSTOMER

RANK

SSN

AGENCY

02:21pm

06/08/06

CARRIER/VEHICLE TYPE

33480 LB

VEHICLE #

09:09am

06/09/06

VEHICLE ID #

~~196~~ 196A

GROSS

77240 LB

DESTINATION/BLDG. #

TARE

33480 LB

GBL/DOC # P.O. #

NET

43760 LB

COMMODITY

Soil

SHIPPER

19890.9 Ks

WEIGHMASTER

Kaye Norton

MCBCL 4600/2 (REV 2-95)



WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF
ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE
ATT. DIS. REJ. PR.

required under authority of Part 111 and
Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to
criminal and/or civil penalties under
Sections 324.11151 or 324.12116 MCL.

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. MID 049 020 533	Manifest Document No. 1200 609 611	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address USMC C/O US LIQUIDS CO 16 MENACE LN CAMP LEJEUNE, NC 28542			A. State Manifest Document Number MI 10279472		
4. Generator's Phone (800) 320-8977			B. State Generator's ID		
5. Transporter 1 Company Name US BIK Transport LLC		6. US EPA ID Number PAD 977347515		C. State Transporter's ID JP104619650H	
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone 1-205-689-6611	
9. Designated Facility Name and Site Address WASTE DISPOSAL SITE #2 LANDFILL 47380 W. US 96P ACE DRIVE SEVENVILLE, MI 48111		10. US EPA ID Number MID 049 020 533		E. State Transporter's ID	
				F. Transporter's Phone	
				G. State Facility's ID	
				H. Facility's Phone (800) 582-6443	
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM			12. Containers	13. Total Quantity	14. Unit Wt/Vol
a.	NO WASTE POLYCHLORINATED BIPHENYLS SOLID 3. UN1993 PCB SOIL	1	DR	19200 K54	PCB1
b.					
c.					
d.					
J. Additional Descriptions for Materials Listed Above 11a. 053105PAB / PCB SOIL					I. Waste No.
					a
					b
					c
					d
15. Special Handling Instructions and Additional Information A STORAGE START DATE: 6/9/06			EMERGENCY CONTACT # () UNIQUE CONTAINER ID: 1200 609 611		
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 K. S. G. H. Jones			Signature [Signature]		Date Month Day Year 11/11/15
17. Transporter 1 Acknowledgment of Receipt of Materials					
Printed/Typed Name Charles Hopper for USBIK			Signature [Signature]		Date Month Day Year 11/10/15
18. Transporter 2 Acknowledgment 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

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOUR PER DAY.

GENERATOR OR FACILITY

Date 6/12/06

POWER
OUTAGE
DISABLED
SCALE
PREVENTOR

Truck #

Front
Back

	41460	77460		
140	<u>36000</u>	<u>33920</u> Tar.	10279473	06136
	77460	43540 net	19790.9 Kg	
1207	<u>78780</u>	<u>35640</u>	10279478	06151
	43140 net	19609.0 Kg		
513	<u>80220</u>	<u>31600</u>	10279474	06137
	48620 net	22100 Kg		
534	<u>78460</u>	<u>31920</u>	10279479	06152
	46540	21154.5 Kg		
123	<u>79740</u>	<u>34140</u>	10279475	06150
	45600 net	20727.2 Kg		
186	<u>78540</u>	<u>33520</u>	10279479	06149
	45000	20463.63 Kg	10279476	
551	<u>79400</u>	<u>29320</u>	10279477	06148
	50080	22763.6 Kg		
1152	<u>78440</u>	<u>32680</u>	10279480	06153
	45760	20800.0 Kg		
145	<u>78020</u>	<u>32840</u>	10279481	06154
	45180	20536.3 Kg		



WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF
ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE
ATT. DIS. REJ. PR.

Required under authority of Part 111 and
Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to
criminal and/or civil penalties under
Sections 324.11151 or 324.12116 MCL.

Please print or type.

Form Approved. OMB No. 2050-0039

**UNIFORM HAZARDOUS
WASTE MANIFEST**

1. Generator's US EPA ID No.

MD9 170002 350

Manifest
Document No.

06136

2. Page 1

of 1

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

3. Generator's Name and Mailing Address

U S M C
200 US LIQUIDS, 04
30 NEWCESS-4
CAMP LEJUNEAU, MI 49843

A. State Manifest Document Number

MI 10279473

B. State Generator's ID

UPW04617C50H

4. Generator's Phone ()

(517) 530-8333

5. Transporter 1 Company Name

US Bulk Transport Inc.

6. Transporter 1 US EPA ID Number

6PAB US EPA ID Number

C. State Transporter's ID

500 609 6611

D. Transporter's Phone

7. Transporter 2 Company Name

8. Transporter 2 US EPA ID Number

US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address

WASTE DISPOSAL SITE #1 LANDFILL
19350 11 1 34 SERVICE DR N E
BELLVILLE, MI 49111

10. Designated Facility US EPA ID Number

US EPA ID Number

G. State Facility's ID

H. Facility's Phone

(800) 582-3489

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).

HM

12. Containers

No.

Type

13. Total Quantity

14. Unit

Wt/Vol

I. Waste No.

a.	b.	c.	d.
PO 40 STE POLYCHLORINATED BIPHENYLS SOLID 9 UNITS PCB SOIL	1	DT	19790.9 Kg

J. Additional Descriptions for Materials Listed Above

1a 053106PAB / PCB SOIL

K. Handling Codes

a
b
c
d

15. Special Handling Instructions and Additional Information

* STORAGE START DATE 6/1/06

EMERGENCY CONTACT ()

UNIQUE CONTAINER ID

1800 609 6611

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

Signature

Date

Month Day Year

17. Transporter 1 Acknowledgment of Receipt of Materials

Printed/Typed Name

Signature

Date

Month Day Year

18. Transporter 2 Acknowledgment 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

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOUR PER DAY.



WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF
ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE
ATT. DIS. REJ. PR.

Required under authority of Part 111 and
Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to
criminal and/or civil penalties under
Sections 324.11151 or 324.12116 MCL.

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. 3308190000	Manifest Document No. 04137	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address D B M C 20 US LIQUIDS QA 30 NEWYORK ST CAMP LEBURNE RD 30490		4. Generator's Phone (810) 320-9712		A. State Manifest Document Number MI 10279474		B. State Generator's ID
5. Transporter 1 Company Name US R. 14 Transport Inc.		6. US EPA ID Number PA0927347515		C. State Transporter's ID 010044196564		D. Transporter's Phone 700-6094211
7. Transporter 2 Company Name		8. US EPA ID Number		E. State Transporter's ID		F. Transporter's Phone
9. Designated Facility Name and Site Address WASTE DISPOSAL SITE #1 LANDFILL 48300 1/4 SERVICE DRIVE BELLEVILLE MI 48111		10. US EPA ID Number MID 048 030 633		G. State Facility's ID		H. Facility's Phone 3 (500) 582-5099
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER)		12. Containers		13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
HM a. RC WASTE POLYCHLORINATED BIPHENYLS SOLID (UNCLAS) PG 1 UN		No. Type 1 01		2100	kg	PCB1
b. 910 451-3471						
c. Jim PATTOCK						
d. Manifest 6/12/06 → 6/13/06						
J. Additional Descriptions for Materials Listed Above 11a 053105PAB / PCB SOIL					K. Handling Codes a b c d	
15. Special Handling Instructions and Additional Information A STORAGE START DATE 6/12/06		EMERGENCY CONTACT # 1 UNIQUE CONTAINER ID 18002784076 6611				
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.						Date
Printed/Typed Name George L. Taylor		Signature <i>George L. Taylor</i>				Month Day Year 06 12 06
17. Transporter 1 Acknowledgment of Receipt of Materials						Date
Printed/Typed Name		Signature				Month Day Year
18. Transporter 2 Acknowledgment of Receipt of Materials						Date
Printed/Typed Name		Signature				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.						Date
Printed/Typed Name		Signature				Month Day Year

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOUR PER DAY.



WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF
ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE
ATT. DIS. REJ. PR.

Required under authority of Part 111 and
Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to
criminal and/or civil penalties under
Sections 324.11151 or 324.12116 MCL.

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. MID 018 087 870	Manifest Document No. 06250	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address USMC 370 US LIQUIDS, GA 1/2 NEWCEBA CAMP LEAUNE, NC 28401		6. US EPA ID Number MID 927 012515		A. State Manifest Document Number MI 10273475		
4. Generator's Phone (710) 308-9071		7. Transporter 1 Company Name US R-127, Transport Inc.		B. State Generator's ID		
5. Transporter 1 Company Name		8. US EPA ID Number		C. State Transporter's ID MID 018 087 870		
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone 710 207 2011		
9. Designated Facility Name and Site Address 44 THE DISPOSAL SITE #2 LANDFILL 43850 1/2 IN SERVICE DRIVE BELLVILLE MICHIGAN		10. US EPA ID Number MID 018 087 870		E. State Transporter's ID		
				F. Transporter's Phone		
				G. State Facility's ID		
				H. Facility's Phone (810) 632-6189		
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM		12. Containers No. Type		13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
a.	WASTE POLYCHLORINATED BIPHENYLS, SOLID, LIQUID, PCBs PCB SOIL	1	DT	20 227.3 kg		PCB1
b.						
c.						
d.						
J. Additional Descriptions for Materials Listed Above 19 053108PAB / PCB SOIL						K. Handling Codes a b c d
15. Special Handling Instructions and Additional Information STORAGE START DATE 6/17/96 EMERGENCY CONTACT 1234 UNIQUE CONTAINER ID 10273475 6609 6611						
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 George L. Taylor		Signature <i>George L. Taylor</i>		Date 06/12/96		
17. Transporter 1 Acknowledgment of Receipt of Materials Printed/Typed Name MARK W STRONG		Signature <i>Mark W Strong</i>		Date 06/12/96		
18. Transporter 2 Acknowledgment of Receipt of Materials Printed/Typed Name		Signature		Date		
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		

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4766 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOUR PER DAY.



WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF
ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE
ATT. DIS. REJ. PR.

Required under authority of Part 111 and
Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to
criminal and/or civil penalties under
Sections 324.11151 or 324.12116 MCL.

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. 1106 (7) 923 900	Manifest Document No. 001019	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
---	--	---------------------------------	-------------------	--

3. Generator's Name and Mailing Address USMC CO US LIQUIDS GA MEMPHIS TN CAMP BELLEVIEW NC 28007	A. State Manifest Document Number MI 10279476
4. Generator's Phone (310) 390 0077	B. State Generator's ID

5. Transporter 1 Company Name US RAILWAY	6. US EPA ID Number 730 2123 12515	C. State Transporter's ID 001019 017 0504
7. Transporter 2 Company Name	8. US EPA ID Number	D. Transporter's Phone 800 509 6011
		E. State Transporter's ID
		F. Transporter's Phone

9. Designated Facility Name and Site Address INACTIVE DISPOSAL SITE #2 LANDFILL 13350 N LINDA SERVICE DRIVE BELLVILLE MI 48111	10. US EPA ID Number MID 046 040 813	G. State Facility's ID
		H. Facility's Phone (800) 502-5455

a.	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM	12. Containers		13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
		No.	Type			
	PCB WASTE POLYCHLORINATED BIPHENYLS, SOLID, LIQUID, PCB II UN	1	DR	20463.0 Kg		PCB1
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above 11a. 053106PAB / PCB SOIL	K. Handling Codes a b c d
--	---------------------------------------

15. Special Handling Instructions and Additional Information A. STORAGE START DATE 10/16	EMERGENCY CONTACT# () UNIQUE CONTAINER ID 11017006 009 6011
---	--

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 George L. Taylor	Signature <i>George L. Taylor</i>	Date Month Day Year 06/12/06
--	--------------------------------------	------------------------------------

17. Transporter 1 Acknowledgment of Receipt of Materials	Date
Printed/Typed Name James Tenago	Signature <i>James Tenago</i>
	Date Month Day Year 11/10/06

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

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOUR PER DAY.



WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF
ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE
ATT. DIS. REJ. PR.

Required under authority of Part 111 and Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to criminal and/or civil penalties under Sections 324.11151 or 324.12116 MCL.

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. 1104 170 022 490	Manifest Document No. 06151	2. Page 1 of 1	information in the shaded areas is not required by Federal law.
---	--	--------------------------------	----------------	---

3. Generator's Name and Mailing Address U.S.M.C. C/O US LIQUIDS, GA 16 NEWCE, SA CAMP LEJEUNE MC 2642	A. State Manifest Document Number MI 10279478
4. Generator's Phone (919) 530-8972	B. State Generator's ID

5. Transporter 1 Company Name US BULK TRANSPORT INC	6. US EPA ID Number 200 17 004 2318	C. State Transporter's ID PA02010196504
--	--	--

7. Transporter 2 Company Name	8. US EPA ID Number	D. Transporter's Phone 1 204 689 6611
-------------------------------	---------------------	--

9. Designated Facility Name and Site Address WAYNE DISPOSAL SITE #3 LANDFILL 47350 N FM SERVICE DRIVE BETHLEHEM, MI 48011	10. US EPA ID Number MID 048 091 633	E. State Transporter's ID
--	---	---------------------------

		F. Transporter's Phone
		G. State Facility's ID
		H. Facility's Phone (800) 632-6429

HM	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).	12. Containers		13. Total Quantity	14. Unit Wt/Vol	1. Waste No.
		No.	Type			
a.	RC WASTE POLYCHLORINATED BIPHENYLS, SOLID 3 UNW31, PG II, UN	1	DR	17000	K ₂	PCBI
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above 11a. 053106PAB / PCB SOIL	K. Handling Codes a b c d
--	---------------------------------------

15. Special Handling Instructions and Additional Information A. STORAGE START DATE: 6/1/06 EMERGENCY CONTACT: 1800 609 6611 UNIQUE CONTAINER ID:

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 George L Taylor	Signature <i>George L Taylor</i>	Date Month Day Year 06/1/06
---------------------------------------	-------------------------------------	-----------------------------------

17. Transporter 1 Acknowledgment of Receipt of Materials Printed/Typed Name Dennis S. H. F...	Signature <i>Dennis S. H. F...</i>	Date Month Day Year 06/1/06
---	---------------------------------------	-----------------------------------

18. Transporter 2 Acknowledgment 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
--------------------	-----------	------------------------

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOUR PER DAY.



WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF
ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE
ATT. DIS. REJ. PR.

Required under authority of Part 111 and Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to criminal and/or civil penalties under Sections 324.11151 or 324.12116 MCL.

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. 1106 130 072 310	Manifest Document No. 00152	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address USMC 60 US LIQUIDS CO 16 NEWBLE RD CAMP LEJEUNE NC 28542		6. US EPA ID Number 1106 130 072 310		A. State Manifest Document Number MI 10279479		
4. Generator's Phone (704) 330-0372		7. Transporter 1 Company Name US BIK		B. State Generator's ID		
5. Transporter 1 Company Name		8. US EPA ID Number		C. State Transporter's ID 010049072 SC A		
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone 1-800-659-6611		
9. Designated Facility Name and Site Address WASTE DISPOSAL SITE #3 LANDFILL 4300 W 194 SERVICE DRIVE BELLEVILLE MI 48111		10. US EPA ID Number 1107 046 030 033		E. State Transporter's ID		
				F. Transporter's Phone		
				G. State Facility's ID		
				H. Facility's Phone (800) 595-5484		
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM		12. Containers		13. Total Quantity	14. Unit Wt/Vol	1. Waste No.
a.	PO WASTE POLYCHLORINATED BIPHENYLS, SOLID, 3 UN312, PG II, UN	No.	Type	21194.5 K9		PCBI
b.						
c.						
d.						
J. Additional Descriptions for Materials Listed Above 1a. 053106PAB / PCB SOIL					K. Handling Codes a b c d	
15. Special Handling Instructions and Additional Information A. STORAGE START DATE: 1/1/00		EMERGENCY CONTACT () UNIQUE CONTAINER ID 1800 659 6611				
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 George L. Taylor		Signature <i>[Signature]</i>		Date 06/13/06		
17. Transporter 1 Acknowledgment of Receipt of Materials		Printed/Typed Name WENDELL FLOWERS		Signature <i>[Signature]</i>		Date 06/13/06
18. Transporter 2 Acknowledgment of Receipt of Materials		Printed/Typed Name		Signature		Date
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		

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8602 24 HOUR PER DAY.



WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF
ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE
ATT. DIS. REJ. PR.

Required under authority of Part 111 and
Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to
criminal and/or civil penalties under
Sections 324.11151 or 324.12116 MCL.

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. MSA 170 023 699	Manifest Document No. 06153	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address USMC CO US LIQUIDS, GA 30 SERVICE ST CAMP LEWIS, NC 28402		4. Generator's Phone (710) 320-9972		A. State Manifest Document Number MI 10279480		B. State Generator's ID
5. Transporter 1 Company Name US R/T/...		6. US EPA ID Number MSA 157347318		C. State Transporter's ID UPW000019504		D. Transporter's Phone 12002292111
7. Transporter 2 Company Name		8. US EPA ID Number		E. State Transporter's ID		F. Transporter's Phone
9. Designated Facility Name and Site Address WAYNE DISPOSAL SITE #2 LANDFILL 49350 N 134 SERVICE DRIVE SEULVILLE, MI 49111		10. US EPA ID Number MID 048 040 833		G. State Facility's ID		H. Facility's Phone (800) 692-6489
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM		12. Containers		13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	PCB WASTE POLYCHLORINATED BIPHENYLS, SOLID, N, UN1301, PG II, UN	1	DT	20800		PCB1
b.						
c.						
d.						
J. Additional Descriptions for Materials Listed Above 11a. 053108PAB / PCB SOIL						I. Handling Codes a b c d
15. Special Handling Instructions and Additional Information A. STORAGE START DATE 6/12/06		EMERGENCY CONTACT () UNIQUE CONTAINER ID 1700 254 211				
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 Deanna L Taylor		Signature		Date 06/12/06		
17. Transporter 1 Acknowledgment of Receipt of Materials		Signature		Date 06/12/06		
18. Transporter 2 Acknowledgment of Receipt of Materials		Signature		Date		
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		

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOUR PER DAY.



WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF
ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE
ATT. DIS. REJ. PR.

Required under authority of Part 111 and
Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to
criminal and/or civil penalties under
Sections 324.11151 or 324.12116 MCL.

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NCA 178 027 960	Manifest Document No. 06134	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address USMC 610 US LIQUIDS, GA 35 MEDICAL A-4 CAMP LEJEUNE, NC 28547			A. State Manifest Document Number MI 10279481		B. State Generator's ID
4. Generator's Phone (919) 333-1111		6. US EPA ID Number 140 987 077 915		C. State Transporter's ID 0PWR401150H	
5. Transporter 1 Company Name CS RIK T. ...		8. US EPA ID Number		D. Transporter's Phone	
7. Transporter 2 Company Name		10. US EPA ID Number		E. State Transporter's ID	
9. Designated Facility Name and Site Address PAYNE DISPOSAL SITE #2 LANDFILL 49550 N. 134 SERVICE DRIVE BELLFLOWER MI 48111		10. US EPA ID Number 410 048 030 533		F. Transporter's Phone	
				G. State Facility's ID	
				H. Facility's Phone (300) 542-6109	

HM	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).	12. Containers		13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
		No.	Type			
a.	PC WASTE POLYCHLORINATED BIPHENYL SOLID 3. HAZARDOUS SOLID	1	OT	20536.3 Kg		PCB1
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above 11a. 05310BPAB / PCB SOIL	K. Handling Codes a b c d
--	---------------------------------------

15. Special Handling Instructions and Additional Information
* STORAGE START DATE: 5/1/88
EMERGENCY CONTACT# ()
UNIQUE CONTAINER ID: 1200 109 001

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 Gregory L. Taylor	Signature <i>[Signature]</i>	Date Month Day Year 06/13/88
17. Transporter 1 Acknowledgment of Receipt of Materials Printed/Typed Name Mark T. ...	Signature <i>[Signature]</i>	Date Month Day Year 06/13/88
18. Transporter 2 Acknowledgment of Receipt of Materials Printed/Typed Name	Signature <i>[Signature]</i>	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
--------------------	-----------	------------------------

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOUR PER DAY.

Date 6/13/06

Truck #	weight	weight kg	manifest #	using manifest #
1526	79960 <u>33900</u> 46060	20936.3 kg	10279482	06155
416	78840 <u>74920</u> 32940 45900	20863.6 kg	10279640	06156
1268	77560 <u>32420</u> 45140	20518.1 kg	10279641	06157
1265	50140 <u>32780</u> 47360	21527.2 kg	10279643	06162
1222	71660 <u>31480</u> 46180	20990.9 kg	10279642	06161 06161
1420 1420A	78500 <u>75720</u> 33140 45360	20618.1 kg	10279644	06163



WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF
ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE
ATT. DIS. REJ. PR.

Required under authority of Part 111 and
Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to
criminal and/or civil penalties under
Sections 324.11151 or 324.12116 MCL.

Please print or type.

Form Approved. OMB No. 2050-0039

**UNIFORM HAZARDOUS
WASTE MANIFEST**

1. Generator's US EPA ID No. 1076 170 023 980	Manifest Document No. 06155	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address U.S.M.C. C/O US LIQUIDR. GA 16 MENACE, GA CAMP LEJEUNE, NC 28552		A. State Manifest Document Number MI 10279482	
4. Generator's Phone (910) 320-1973		B. State Generator's ID	
5. Transporter 1 Company Name US TRUCK	6. US EPA ID Number PA3 78 14 15	C. State Transporter's ID 064701619 0504	
7. Transporter 2 Company Name	8. US EPA ID Number	D. Transporter's Phone 1 800 649 060	
9. Designated Facility Name and Site Address WAYNE DISPOSAL SITE #1 LANDFILL 49350 N FM SERVICE DRIVE BELLEVILLE MI 48111		E. State Transporter's ID	
10. US EPA ID Number MID 045 050 639		F. Transporter's Phone	
		G. State Facility's ID	
		H. Facility's Phone (800) 932-6483	

HM	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER)	12. Containers		13. Total Quantity	14. Unit Wt/Vol	1. Waste No.
		No.	Type			
a.	PG WASTE POLYCHLORINATED BIPHENYLS, SOLID, 1 UN 1432, PG II, UN	1	DR	20930.6	kg	PCBI
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above (a. 053105PAB / PCB SOIL	K. Handling Codes a. b. c. d.
---	---

15. Special Handling Instructions and Additional Information A STORAGE START DATE 6/13/06 EMERGENCY CONTACT 1 800 649 060 UNIQUE CONTAINER ID.

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 Genevieve L. Taylor	Signature <i>[Signature]</i>	Date 16 13 06
---	---------------------------------	------------------

17. Transporter 1 Acknowledgment of Receipt of Materials Printed/Typed Name Signature Date
18. Transporter 2 Acknowledgment of Receipt of Materials Printed/Typed Name Signature Date

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

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-6802 24 HOUR PER DAY.



WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF
ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE
ATT. DIS. REJ. PR.

Required under authority of Part 111 and
Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to
criminal and/or civil penalties under
Sections 324.11151 or 324.1116 MCL.

Form Approved OMB No. 2050-0039

Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. 1000170672 590	Manifest Document No. 021510	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address USMC C/O US LIQUIDS, GP % MESSAGE 5-1 CAMP LEJEUNE, NC 28502		A. State Manifest Document Number MI 10279640		B. State Generator's ID	
4. Generator's Phone ()	5. Transporter 1 Company Name D & B		6. US EPA ID Number 1000927112 315	C. State Transporter's ID SP10046176504	
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone 1800 609 6611	
9. Designated Facility Name and Site Address WAYNE DISPOSAL SITE #2 LANDFILL 497011 134 SERVICE DRIVE SEELBYVILLE, MI 49781		10. US EPA ID Number MID 048 030 433		E. State Transporter's ID	
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER) HM		12. Containers No. Type		13. Total Quantity	14. Unit Wt/Vol
a.	PCB WASTE POLYCHLORINATED BIPHENYLS, SOLID, AQUEOUS RESIDUE	1		20263.0	kg
b.					
c.					
d.					
J. Additional Descriptions for Materials Listed Above 11a. 053106PAB / PCB SOIL				I. Waste No. PCB1	
15. Special Handling Instructions and Additional Information A STORAGE START DATE 6/13/06				EMERGENCY CONTACT () CONTAINER ID 108 1800 609 6611	
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.				K. Handling Codes a. b. c. d.	
Printed/Typed Name George L. Taylor		Signature [Signature]		Date 7/6/16	
17. Transporter 1 Acknowledgment of Receipt of Materials Printed/Typed Name [Name]		Signature [Signature]		Date 7/6/16	
18. Transporter 2 Acknowledgment of Receipt of Materials Printed/Typed Name		Signature		Date	
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.				Date	
Printed/Typed Name		Signature		Month Day Year	

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOUR PER DAY.



WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF
ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE
ATT. DIS. REJ. PR.

Required under authority of Part 111 and Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to criminal and/or civil penalties under Sections 324.11151 or 324.12116 MCL.

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. PC04 170 DCC 588	Manifest Document No. 06157	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address D S M C C/O US LIQUIDS, OR 36 MENACE RD CAMP LEBONE, NC 28453			A. State Manifest Document Number MI 10279541		B. State Generator's ID
4. Generator's Phone () 704-377-1000		6. US EPA ID Number 29-77157-313		C. State Transporter's ID DFW0041950504	
5. Transporter 1 Company Name US LIQUIDS		8. US EPA ID Number		D. Transporter's Phone 1800 619 6611	
7. Transporter 2 Company Name		10. US EPA ID Number		E. State Transporter's ID	
9. Designated Facility Name and Site Address LANDFILL DISPOSAL SITE #2 LANDFILL 19350 N 1-24 SERVICE DRIVE BELLVILLE MI 48111		10. US EPA ID Number MID 049 030 533		F. Transporter's Phone	
				G. State Facility's ID	
				H. Facility's Phone (800) 692-5489	

HM	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).	12. Containers		13. Total Quantity	14. Unit Wt/Vol	1. Waste No.
		No.	Type			
a.	PO WASTE POLYCHLORINATED BIPHENYLS SOLID 9.00 UNCL PCBL UN	1		20518 kg		PCBL
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above 11a. 053105PAB / PCB SOIL	K. Handling Codes a b c d
--	---------------------------------------

15. Special Handling Instructions and Additional Information
 STORAGE START DATE: 6/13/06
 EMERGENCY CONTACT: 1800 619 6611
 CONTAINER ID: 1728A

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 George L. Taylor	Signature <i>[Signature]</i>	Date Month Day Year 06/13/06
--	---------------------------------	------------------------------------

17. Transporter 1 Acknowledgment of Receipt of Materials		Date
Printed/Typed Name	Signature	Month Day Year

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

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOUR PER DAY.



WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF
ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE
ATT. DIS. REJ. PR.

Required under authority of Part 111 and Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to criminal and/or civil penalties under Sections 324.11151 or 324.12116 MCL.

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NOR 000 000 000	Manifest Document No. 06/06/06	2. Page 1 of	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address COUS LIQUIDS GA 75 MENACE SQ CAMP LEGLINE, NC 27543		4. Generator's Phone (910) 320-7972		A. State Manifest Document Number MI 10279642		
5. Transporter 1 Company Name US GILK TRADING INC		6. US EPA ID Number PND 20734 2005		C. State Transporter's ID DPA0646196904		
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone 7700 609 000		
9. Designated Facility Name and Site Address WASTE DISPOSAL SITE #7 LANSING 43750 U.S. SERVICE DRIVE BELLVILLE, MI 48111		10. US EPA ID Number MID 048 000 045		E. State Transporter's ID		
				F. Transporter's Phone		
				G. State Facility's ID		
				H. Facility's Phone (800) 592-5424		
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER)		12. Containers		13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
HM		No.	Type			
a.	PCB WASTE POLYCHLORINATED BIPHENYLS, SOLID, 3 UNK WAZ PCB SOIL	1		20790.9 Kg		PCB1
b.						
c.						
d.						
J. Additional Descriptions for Materials Listed Above 11a. 053106PAB / PCB SOIL						K. Handling Codes a b c d
15. Special Handling Instructions and Additional Information STORAGE START DATE 5/11/04 EMERGENCY CONTACT # 1 7700 609 000 CONTAINER ID DTZ						
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 Georgina L. Taylor		Signature <i>Georgina L. Taylor</i>		Date 06/11/06		
17. Transporter 1 Acknowledgment of Receipt of Materials		Signature <i>Clifford S. ...</i>		Date 06/11/06		
Printed/Typed Name Clifford S. ...		Signature <i>Clifford S. ...</i>		Date 06/11/06		
18. Transporter 2 Acknowledgment of Receipt of Materials		Signature		Date		
Printed/Typed Name		Signature		Date		
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		

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4766 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOUR PER DAY.



WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF
ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE
ATT. DIS. REJ. PR.

Required under authority of Part 111 and Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to criminal and/or civil penalties under Sections 324.11151 or 324.12116 MCL.

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. 103 170 422 100	Manifest Document No. 06102	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address US M D COUS LIQUIDS, CA 36 NEWICE, S-I CAMP LEJEUNE NC 28519		A. State Manifest Document Number MI 10279643		B. State Generator's ID		
4. Generator's Phone (310) 520-9012		6. US EPA ID Number PA0 987347515		C. State Transporter's ID UPW04619450H		
5. Transporter 1 Company Name US Bulk Transport		8. US EPA ID Number		D. Transporter's Phone 1800 209 4661		
7. Transporter 2 Company Name		10. US EPA ID Number		E. State Transporter's ID		
9. Designated Facility Name and Site Address PAYNE DISPOSAL SITE #21 LANDFILL 4935011 LISA SERVICE DRIVE BELLVILLE MI 48111		G. State Facility's ID		F. Transporter's Phone		
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER) HM		12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol
a.	PO WASTE POLYCHLORINATED BIPHENYLS, SOLID, UN309 PCB UN			21527.7		PCB
b.						
c.						
d.						
J. Additional Descriptions for Materials Listed Above 11a. 053108FAB / PCB SOIL					K. Handling Codes a b c d	
15. Special Handling Instructions and Additional Information A. STORAGE START DATE 6/13/06 EMERGENCY CONTACT# 1 1800 609 6611 CONTAINER ID 1262A						
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 George L. Taylor		Signature <i>George L. Taylor</i>		Date Month Day Year 06/13/06		
17. Transporter 1 Acknowledgment of Receipt of Materials Printed/Typed Name Michael M. ...		Signature <i>Michael M. ...</i>		Date Month Day Year 06/13/06		
18. Transporter 2 Acknowledgment 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		

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOUR PER DAY.



WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF
ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE
ATT. DIS. REJ. PR.

Required under authority of Part 111 and
Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to
criminal and/or civil penalties under
Sections 324.11151 or 324.12116 MCL.

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. RCR 170 927 309	Manifest Document No. 010136	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address CIOUS LIQUIDS, OA 16145 WOODLAND CAMP LEWIS, MI 48111			A. State Manifest Document Number MI 10279644		B. State Generator's ID
4. Generator's Phone ()			C. State Transporter's ID UP00046196504		D. Transporter's Phone 1800 689 6611
5. Transporter 1 Company Name US Bulk Transport Inc.		6. US EPA ID Number PAD 987347515		E. State Transporter's ID	
7. Transporter 2 Company Name		8. US EPA ID Number		F. Transporter's Phone	
9. Designated Facility Name and Site Address WASTE DISPOSAL SITE #2 LANDFILL 19350 1134 SEPULCHRE CRIME BELLVILLE, MI 48111			10. US EPA ID Number MID 048 000 633		G. State Facility's ID
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER) HM			12. Containers No. Type		13. Total Quantity
a. SOLID WASTE POLYCHLORINATED BIPHENYL (SOLID) 3.00 MFC PCB SOIL			1		20018.1
b.					
c.					
d.					
J. Additional Descriptions for Materials Listed Above 11a. 003106PAB/PCB SOIL					K. Handling Codes a. b. c. d.
15. Special Handling Instructions and Additional Information A. STORAGE START DATE 6/13/06			EMERGENCY CONTACT # 1800 689 6611 CONTAINER ID		
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 George L. Taylor		Signature <i>George L. Taylor</i>		Date Month Day Year 06/13/06	
17. Transporter 1 Acknowledgment of Receipt of Materials Printed/Typed Name RIGGEE STEWART		Signature <i>R. Stewart</i>		Date Month Day Year 06/13/06	
18. Transporter 2 Acknowledgment 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	

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8602 24 HOUR PER DAY.

Approval: 053106PAB
 Receipt Status: All
 Trans Mode (Inbound/Outbound): Both
 Bulk Mode (Bulk/Non-Bulk): Both

Receipt List

Wayne Disposal, Inc.
 1 Wayne Disposal, Inc.

Receipt ID	Manifest/BOL / Commingled	Customer	Generator	Waste Stream	Approval / Product TSDF Approval	Waste Code	Bill Unit	Quantity	Rec.Status	Fpr. Status / Outbound	Date
1140998-1	MH10279460	005381	US ENVIRONMENTAL, IN NC6170022580 U.S.M.C.		053106PAB	PCB1	TONS	25.16	Accepted	Accepted	6/9/2006
1140999-1	MH10279458	005381	US ENVIRONMENTAL, IN NC6170022580 U.S.M.C.		053106PAB	PCB1	TONS	24.47	Accepted	Accepted	6/9/2006
1141003-1	MH10279463	005381	US ENVIRONMENTAL, IN NC6170022580 U.S.M.C.		053106PAB	PCB1	TONS	23.07	Accepted	Accepted	6/9/2006
1141006-1	MH10279461	005381	US ENVIRONMENTAL, IN NC6170022580 U.S.M.C.		053106PAB	PCB1	TONS	22.3	Accepted	Accepted	6/9/2006
1141008-1	MH10279462	005381	US ENVIRONMENTAL, IN NC6170022580 U.S.M.C.		053106PAB	PCB1	TONS	24.69	Accepted	Accepted	6/9/2006
1141013-1	MH10279465	005381	US ENVIRONMENTAL, IN NC6170022580 U.S.M.C.		053106PAB	PCB1	TONS	23.51	Accepted	Accepted	6/9/2006
1141014-1	MH10279459	005381	US ENVIRONMENTAL, IN NC6170022580 U.S.M.C.		053106PAB	PCB1	TONS	22.37	Accepted	Accepted	6/9/2006
1141015-1	MH10279464	005381	US ENVIRONMENTAL, IN NC6170022580 U.S.M.C.		053106PAB	PCB1	TONS	22.53	Accepted	Accepted	6/9/2006
1141016-1	MH10279466	005381	US ENVIRONMENTAL, IN NC6170022580 U.S.M.C.		053106PAB	PCB1	TONS	22.44	Accepted	Accepted	6/9/2006
1141022-1	MH10279467	005381	US ENVIRONMENTAL, IN NC6170022580 U.S.M.C.		053106PAB	PCB1	TONS	23.21	Accepted	Accepted	6/9/2006
1141042-1	MH10279470	005381	US ENVIRONMENTAL, IN NC6170022580 U.S.M.C.		053106PAB	PCB1	TONS	21.57	Accepted	Accepted	6/12/2006
1141043-1	MH10279471	005381	US ENVIRONMENTAL, IN NC6170022580 U.S.M.C.		053106PAB	PCB1	TONS	22.63	Accepted	Accepted	6/12/2006
1141047-1	MH10279472	005381	US ENVIRONMENTAL, IN NC6170022580 U.S.M.C.		053106PAB	PCB1	TONS	22.3	Accepted	Accepted	6/12/2006
1141060-1	MH10279478	005381	US ENVIRONMENTAL, IN NC6170022580 U.S.M.C.		053106PAB	PCB1	TONS	21.74	Accepted	Accepted	6/13/2006
1141069-1	MH10279475	005381	US ENVIRONMENTAL, IN NC6170022580 U.S.M.C.		053106PAB	PCB1	TONS	23.58	Accepted	Accepted	6/13/2006
1141080-1	MH10279469	005381	US ENVIRONMENTAL, IN NC6170022580 U.S.M.C.		053106PAB	PCB1	TONS	24.1	Accepted	Accepted	6/13/2006
1141086-1	MH10279476	005381	US ENVIRONMENTAL, IN NC6170022580 U.S.M.C.		053106PAB	PCB1	TONS	22.69	Accepted	Accepted	6/13/2006
1141088-1	MH10279473	005381	US ENVIRONMENTAL, IN NC6170022580 U.S.M.C.		053106PAB	PCB1	TONS	21.76	Accepted	Accepted	6/13/2006
1141092-1	MH10279474	005381	US ENVIRONMENTAL, IN NC6170022580 U.S.M.C.		053106PAB	PCB1	TONS	24.09	Accepted	Accepted	6/13/2006
1141094-1	MH10279477	005381	US ENVIRONMENTAL, IN NC6170022580 U.S.M.C.		053106PAB	PCB1	TONS	25	Accepted	Accepted	6/13/2006
1141097-1	MH10279458	005381	US ENVIRONMENTAL, IN NC6170022580 U.S.M.C.		053106PAB	PCB1	TONS	23.48	Accepted	Accepted	6/13/2006
1141119-1	MH10279479	005381	US ENVIRONMENTAL, IN NC6170022580 U.S.M.C.		053106PAB	PCB1	TONS	23.4	Accepted	Accepted	6/13/2006
1141120-1	MH10279480	005381	US ENVIRONMENTAL, IN NC6170022580 U.S.M.C.		053106PAB	PCB1	TONS	23.47	Accepted	Accepted	6/13/2006
1141176-1	MH10279640	005381	US ENVIRONMENTAL, IN NC6170022580 U.S.M.C.		053106PAB	PCB1	TONS	23.71	Accepted	Accepted	6/14/2006
1141177-1	MH10279641	005381	US ENVIRONMENTAL, IN NC6170022580 U.S.M.C.		053106PAB	PCB1	TONS	22.85	Accepted	Accepted	6/14/2006
1141198-1	MH10279642	005381	US ENVIRONMENTAL, IN NC6170022580 U.S.M.C.		053106PAB	PCB1	TONS	23.3	Accepted	Accepted	6/14/2006
1141201-1	MH10279643	005381	US ENVIRONMENTAL, IN NC6170022580 U.S.M.C.		053106PAB	PCB1	TONS	23.86	Accepted	Accepted	6/14/2006
1141203-1	MH10279481	005381	US ENVIRONMENTAL, IN NC6170022580 U.S.M.C.		053106PAB	PCB1	TONS	22.78	Accepted	Accepted	6/14/2006
1141219-1	MH10279482	005381	US ENVIRONMENTAL, IN NC6170022580 U.S.M.C.		053106PAB	PCB1	TONS	23.21	Accepted	Accepted	6/15/2006
1141246-1	MH10279644	005381	US ENVIRONMENTAL, IN NC6170022580 U.S.M.C.		053106PAB	PCB1	TONS	22.89	Accepted	Accepted	6/15/2006
Total quantity for bill unit TONS:								696.14			

Wayne Disposal, Inc.
49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

US ENVIRONMENTAL, INC.
251 NORWOOD ROAD
DOWNTOWN, PA 19335

Receipt ID: 1140999
EQ Account #: 5381
Manifest / BOL: MI10279458
Transporter: USBULK
Date: 06/09/2006
Time In: 8:05 AM
Time Out: 9:11 AM

Line	Description	Qty.	Unit
	Generator		
1 - A	053106PAB - PCB SOIL	24,470	TONS
NC6170022580 U.S.M.C.			
Gross: 80,280		Tare: 31,340	Net: 48,940

Wayne Disposal, Inc.
49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

US ENVIRONMENTAL, INC.
251 NORWOOD ROAD
DOWNTOWN, PA 19335

Receipt ID: 1141060
EQ Account #: 5381
Manifest / BOL: MI10279478
Transporter: USBULK
Date: 08/13/2006
Time In: 7:27 AM
Time Out: 8:29 AM

Line	Description	Qty.	Unit
	Generator		
1 - A	053106PAB - PCB SOIL	21.740	TONS
NC6170022580 U.S.M.C.			
Gross: 78,020		Tare: 34,540	Net: 43,480

Wayne Disposal, Inc.
49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

US ENVIRONMENTAL, INC.
251 NORWOOD ROAD
DOWNTOWN, PA 19335

Receipt ID: 1141069
EQ Account #: 5361
Manifest / BOL: MI10279475
Transporter: USBULK
Date: 06/13/2006
Time In: 9:33 AM
Time Out: 10:15 AM

Line	Description	Qty.	Unit
	Generator		
1 - A	053100PAB - PCB SOIL	23,560	TONS
NC6170022580 U.S.M.C. Gross: 79,460 Tare: 32,340 Net: 47,120			

Wayne Disposal, Inc.
49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

US ENVIRONMENTAL, INC.
251 NORWOOD ROAD
DOWNTOWN, PA 19335

Receipt ID: 1141080
EQ Account #: 5381
Manifest / BOL: MI10279469
Transporter: USBULK
Date: 08/13/2006
Time In: 11:08 AM
Time Out: 11:46 AM

Line	Description	Qty.	Unit
	Generator		
1 - A	053108PAB - PCB SOIL	24.100	TONS
NC6170022580 U.S.M.C.			
Gross: 81,080		Tare: 32,880	Net: 48,200

Wayne Disposal, Inc.
49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

US ENVIRONMENTAL, INC.
251 NORWOOD ROAD
DOWNTOWN, PA 19335

Receipt ID: 1141086
EQ Account #: 5361
Manifest / BOL: MI10279476
Transporter: USBULK
Date: 08/13/2006
Time In: 12:03 PM
Time Out: 1:22 PM

Line	Description	Qty.	Unit
1 - A	053106PAB - PCB SOIL	22,690	TONS
NC6170022580 U.S.M.C. Gross: 78,360 Tare: 32,980 Net: 45,380			

Wayne Disposal, Inc.
49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

US ENVIRONMENTAL, INC.
251 NORWOOD ROAD
DOWNTOWN, PA 19335

Receipt ID: 1141008
EQ Account #: 5381
Manifest / BOL: MI10279462
Transporter: USBULK
Date: 08/09/2006
Time In: 10:34 AM
Time Out: 11:28 AM

Line	Description Generator	Qty. Unit
1 - A	053106PAB - PCB SOIL	24,690 TONS
NC6170022580 U.S.M.C.		
Gross: 78,560 Tare: 29,180 Net: 49,380		

Wayne Disposal, Inc.
49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

US ENVIRONMENTAL, INC.
251 NORWOOD ROAD
DOWNTOWN, PA 19335

Receipt ID: 1141013
EQ Account #: 5381
Manifest / BOL: MI10279465
Transporter: USBULK
Date: 08/09/2006
Time In: 11:30 AM
Time Out: 11:59 AM

Line	Description	Qty.	Unit
	Generator		
1 * A	033106PAB - PCB SOIL	23.510	TONS
NC6170022580 U.S.M.C.			
Gross: 79,700		Tare: 32,580	Net: 47,020

Wayne Disposal, Inc.
49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

US ENVIRONMENTAL, INC.
251 NORWOOD ROAD
DOWNTOWN, PA 19335

Receipt ID: 1141014
EQ Account #: 5381
Manifest / BOL: MI10279459
Transporter: USBULK
Date: 06/09/2006
Time In: 11:31 AM
Time Out: 12:02 PM

Line	Description Generator	Qty.	Unit
1 - A	053106PAB - PCB SOIL	22.370	TONS
NC8170022580 U.S.M.C.			
Gross: 78,600		Tare: 33,860	Net: 44,740

Wayne Disposal, Inc.
49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

US ENVIRONMENTAL, INC.
251 NORWOOD ROAD
DOWNTOWN, PA 19335

Receipt ID: 1141015
EQ Account #: 5381
Manifest / BOL: MI10279464
Transporter: USBULK
Date: 08/09/2006
Time In: 11:32 AM
Time Out: 12:08 PM

Line	Description	Qty.	Unit
	Generator		
1 - A	053106PAB - PCB SOIL	22.530	TONS
NC8170022580 U.S.M.C.			
Gross: 79,000		Tare: 33,940	Net: 45,060

Wayne Disposal, Inc.
49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

US ENVIRONMENTAL, INC.
251 NORWOOD ROAD
DOWNTOWN, PA 19335

Receipt ID: 1141016
EQ Account #: 5381
Manifest / BOL: MI10279466
Transporter: USBULK
Date: 06/09/2006
Time In: 11:35 AM
Time Out: 12:15 PM

Line	Description Generator	Qty. Unit
1 - A	053106PAB - PCB SOIL	22,440 TONS
NC6170022580 U.S.M.C.		
Gross: 79,320 Tare: 34,440 Net: 44,880		

Wayne Disposal, Inc.
49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

US ENVIRONMENTAL, INC.
251 NORWOOD ROAD
DOWNTOWN, PA 19335

Receipt ID: 1141022
EQ Account #: 5381
Manifest / BOL: MI10279467
Transporter: USBULK
Date: 06/09/2006
Time In: 1:01 PM
Time Out: 1:46 PM

Line	Description Generator	Qty. Unit
1 - A	053106PAB - PCB SOIL	23.210 TONS
NC6170022580 U.S.M.C.		
Gross: 78,940 Tare: 32,520 Net: 46,420		

Wayne Disposal, Inc.
49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

US ENVIRONMENTAL, INC.
251 NORWOOD ROAD
DOWNTOWN, PA 19335

Receipt ID: 1141003
EQ Account #: 5381
Manifest / BOL: M110279463
Transporter: USBULK
Date: 06/09/2006
Time In: 8:52 AM
Time Out: 10:25 AM

Line	Description	Qty.	Unit
	Generator		
1 - A	053106PAB - PCB SOIL	23.070	TONS
NC6170022580 U.S.M.C.			
Gross: 77,600		Tare: 31,460	Net: 46,140

Wayne Disposal, Inc.
49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

US ENVIRONMENTAL INC.
251 NORWOOD ROAD
DOWNTOWN, PA 19335

Receipt ID: 1141006
EQ Account #: 5381
Manifest / BOL: M10279461
Transporter: USBULK
Date: 08/09/2006
Time In: 10:18 AM
Time Out: 11:20 AM

Line	Description	Qty.	Unit
1 - A	053106PAB - PCB SOIL	22.300	TONS
NC6170022580 U.S.M.C. Gross: 77,620 Tare: 33,020 Net: 44,600			

Wayne Disposal, Inc.
49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

US ENVIRONMENTAL, INC.
251 NORWOOD ROAD
DOWNTOWN, PA 19335

Receipt ID: 1141176
EQ Account #: 5381
Manifest / BOL: MI10279640
Transporter: USBULK
Date: 06/14/2006
Time In: 12:19 PM
Time Out: 1:32 PM

Line	Description Generator	Qty.	Unit
1 - A	053108PAB - PCB SOIL	23.710	TONS
NC6170022580 U.S.M.C.			
Gross: 78,820		Tare: 31,400	Net: 47,420

Wayne Disposal, Inc.
49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

US ENVIRONMENTAL, INC.
251 NORWOOD ROAD
DOWNTOWN, PA 19335

Receipt ID: 1141177
EQ Account #: 5381
Manifest / BOL: M110279641
Transporter: USBULK
Date: 06/14/2006
Time In: 12:21 PM
Time Out: 1:07 PM

Line	Description	Qty.	Unit
	Generator		
1 - A	053106PAB - PCB SOIL	22.850	TONS
NC6170022580 U.S.M.C.			
Gross: 77,400		Tare: 31,700	Net: 45,700

Wayne Disposal, Inc.
49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

US ENVIRONMENTAL, INC.
251 NORWOOD ROAD
DOWNTOWN, PA 19335

Receipt ID: 1141092
EQ Account #: 5381
Manifest / BOL: MI10279474
Transporter: USBULK
Date: 08/13/2006
Time In: 12:48 PM
Time Out: 1:55 PM

Line	Description Generator	Qty. Unit
1 - A	053T06PAB - PCB SOIL	24.090 TONS
NC8170022580 U.S.M.C.		
Gross: 79,740 Tare: 31,560 Net: 48,180		

Wayne Disposal, Inc.
49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

US ENVIRONMENTAL, INC.
251 NORWOOD ROAD
DOWNTOWN, PA 19335

Receipt ID: 1141094
EQ Account #: 5381
Manifest / BOL: MI10279477
Transporter: USBULK
Date: 08/13/2006
Time In: 12:52 PM
Time Out: 2:00 PM

Line	Description Generator	Qty.	Unit
1 - A	053106PAB - PCB SOIL	25,000	TONS
NC6170022580 U.S.M.C.			
Gross: 79,120		Tare: 29,120	Net: 50,000

Wayne Disposal, Inc.
49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

US ENVIRONMENTAL, INC.
251 NORWOOD ROAD
DOWNTOWN, PA 19335

Receipt ID: 1141120
EQ Account #: 5381
Manifest / BOL: MI10279480
Transporter: USBULK
Date: 08/13/2006
Time In: 2:21 PM
Time Out: 3:21 PM

Line	Description	Qty.	Unit
1 - A	053108PAB - PCB SOIL	23.470	TONS
NCS170022580 U.S.M.C.			
Gross: 78,800		Tare: 31,860	Net: 46,940

Wayne Disposal, Inc.
49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

US ENVIRONMENTAL, INC.
251 NORWOOD ROAD
DOWNTOWN, PA 19335

Receipt ID: 1141097
EQ Account #: 5381
Manifest / BOL: MI10279468
Transporter: USBULK
Date: 08/13/2006
Time In: 1:18 PM
Time Out: 2:19 PM

Line	Description	Qty.	Unit
	Generator		
1 - A	053106PAB - PCB SOIL	23,480	TONS
NC6170022560 U.S.M.C.			
Gross: 79,680		Tare: 32,720	Net: 46,960

Wayne Disposal, Inc.
49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

US ENVIRONMENTAL, INC.
251 NORWOOD ROAD
DOWNTOWN, PA 19335

Receipt ID: 1141119
EQ Account #: 5381
Manifest / BOL: MI10279479
Transportor: USBULK
Date: 08/13/2006
Time In: 2:12 PM
Time Out: 3:17 PM

Line	Description Generator	Qty. Unit
1 - A	053106PAB - PCB SOIL	23.400 TONS
NC6170022580 U.S.M.C. Gross: 78,540 Tare: 31,740 Net: 46,800		

Wayne Disposal, Inc.
49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

US ENVIRONMENTAL, INC.
251 NORWOOD ROAD
DOWNTOWN, PA 19335

Receipt ID: 1141047
EQ Account #: 5381
Manifest / BOL: MI10279472
Transporter: USBULK
Date: 06/12/2006
Time In: 12:21 PM
Time Out: 1:03 PM

Line	Description	Qty.	Unit
	Generator		
1 - A	053106PAB - PCB SOIL	22.300	TONS
NC6170022580 U.S.M.C. Gross: 79,000 Tare: 34,400 Net: 44,600			

Wayne Disposal, Inc.
49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

US ENVIRONMENTAL, INC.
251 NORWOOD ROAD
DOWNTOWN, PA 19335

Receipt ID: 1141088
EQ Account #: 5381
Manifest / BOL: MI10279473
Transporter: USBULK
Date: 08/13/2008
Time In: 12:13 PM
Time Out: 1:26 PM

Line	Description	Qty.	Unit
	Generator		
1 - A	053106PAB - PCB SOIL	21.760	TONS
NC6170022580 U.S.M.C.			
Gross: 77,500		Tare: 33,980	Net: 43,520

Wayne Disposal, Inc.
49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

US ENVIRONMENTAL, INC.
251 NORWOOD ROAD
DOWNINGTOWN, PA 19335

Receipt ID: 1141198
EQ Account #: 5381
Manifest / BOL: MI10279642
Transporter: USBULK
Date: 08/14/2006
Time In: 3:44 PM
Time Out: 4:18 PM

Line	Description	Qty.	Unit
	Generator		
1 - A	053100PAB - PCB SOIL	23.300	TONS
NC6170022580 U.S.M.C.			
Gross: 77,360		Tare: 30,760	Net: 46,600

Wayne Disposal, Inc.
49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

US ENVIRONMENTAL, INC.
251 NORWOOD ROAD
DOWNTOWN, PA 19335

Receipt ID: 1141201
EQ Account #: 5381
Manifest / BOL: MI10279643
Transporter: USBULK
Date: 08/14/2006
Time In: 3:47 PM
Time Out: 4:22 PM

Line	Description Generator	Qty. Unit
1 - A	053106PAB - PCB SOIL	23,880 TONS
NC6170022580 U.S.M.C. Gross: 79,000 Tare: 31,280 Net: 47,720		

Wayne Disposal, Inc.
49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

US ENVIRONMENTAL, INC.
281 NORWOOD ROAD
DOWNTOWN, PA 19335

Receipt ID: 1141203
EQ Account #: 5381
Manifest / BOL: MI10279481
Transporter: USBULK
Date: 06/14/2006
Time In: 3:49 PM
Time Out: 4:56 PM

Line	Description	Qty.	Unit
1 - A	053106PAB - PCB SOIL	22.760	TONS
NC6170022580 U.S.M.C. Gross: 78,250 Tare: 32,700 Net: 45,560			

Wayne Disposal, Inc.
49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

US ENVIRONMENTAL, INC.
251 NORWOOD ROAD
DOWNTOWN, PA 19935

Receipt ID: 1141219
EQ Account #: 5381
Manifest / BOL: MI10279482
Transporter: USBULK
Date: 06/15/2006
Time In: 7:23 AM
Time Out: 9:07 AM

Line	Description	Qty.	Unit
	Generator		
1 - A	053106PAB - PCB SOIL	23.210	TONS
NC6170022580 U.S.M.C. Gross: 79,460 Tare: 33,040 Net: 46,420			

Wayne Disposal, Inc.
49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

US ENVIRONMENTAL, INC.
251 NORWOOD ROAD
DOWNTOWN, PA 19335

Receipt ID: 1141248
EQ Account #: 9381
Manifest / BOL: MI10279644
Transporter: USBULK
Date: 06/15/2006
Time In: 10:12 AM
Time Out: 11:10 AM

Line	Description	Qty.	Unit
	Generator		
1-A	053106PAB - PCB SOIL	22.890	TONS
NC6170022580 U.S.M.C.			
Gross: 78,620		Tare: 32,840	Net: 45,780

Wayne Disposal, Inc.
49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

US ENVIRONMENTAL, INC.
251 NORWOOD ROAD
DOWNTOWN, PA 19335

Receipt ID: 1141042
EQ Account #: 5381
Manifest / BOL: MI10279470
Transporter: USBULK
Date: 08/12/2006
Time In: 9:37 AM
Time Out: 10:25 AM

Line	Description	Qty.	Unit
1 - A	053106PAB - PCB SOIL	21.570	TONS
NC6170022580 U.S.M.C. Gross: 75,640 Tare: 32,500 Net: 43,140			

Wayne Disposal, Inc.
49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

US ENVIRONMENTAL, INC.
251 NORWOOD ROAD
DOWNTOWN, PA 19335

Receipt ID: 1141043
EQ Account #: 5381
Manifest / BOL: MI10279471
Transporter: USBULK
Date: 06/12/2006
Time In: 9:43 AM
Time Out: 10:30 AM

Line	Description	Qty.	Unit
1 - A	053106PAB - PCB SOIL	22.630	TONS
NC8170022580 U.S.M.C. Gross: 76,640 Tare: 31,380 Net: 45,260			

Wayne Disposal, Inc.
49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

US ENVIRONMENTAL, INC.
251 NORWOOD ROAD
DOWNTOWN, PA 19335

Receipt ID: 1140998
EQ Account #: 5301
Manifest / BOL: MI10279460
Transporter: USBULK
Date: 06/09/2006
Time In: 8:00 AM
Time Out: 9:16 AM

Line	Description	Qty.	Unit
	Generator		
1 - A	053106PAB - PCB SOIL	25.160	TONS
NC6170022580 U.S.M.C.			
Gross: 78,880 Tare: 28,560 Net: 50,320			

APPENDIX D

REMOVAL ACTION PHOTOGRAPHS



EXCAVATION AREA BEFORE REMOVAL



ROAD AREA BEFORE REMOVAL



SOIL COVER AREA BEFORE REMOVAL



EXCAVATION AREA DURING REMOVAL



EXCAVATION NEAR UNDERGROUND UTILITY LINES ALONG ROAD



COLLECTION OF SIDEWALL SAMPLES



LOADING CONTAMINATED SOIL AT SITE 84 FOR DISPOSAL



LOADING CLEAN FILL AT FRENCH CREEK BORROW SITE



SPREADING CLEAN FILL IN SOIL COVER AREA



SOIL COVER AREA WITH CLEAN FILL IN PLACE



SOIL COVER AREA GRADED AND SEEDED



ROAD AREA GRADED AND SEEDED



REMOVAL OF COMMUNICATION LINE ACCESS BOXES

APPENDIX E
PRE-REMOVAL, DISPOSAL, AND QA/QC
ANALYTICAL RESULTS

FINAL PROJECT CLOSEOUT REPORT
Review, Recommendations, and Removal Action
Site 84 Operable Unit 19
MCB Camp Lejeune, North Carolina

Pre-Removal Sampling Test Results

Sample No.	PCB (ppm)
CLJ84-DT-01	65
CLJ84-DT-01-DUP	50

Disposal Sampling Test Results

Sample No.	PCB (ppm)
DS-1	237.0
DS-2	145.0
DS-3	78.5
DS-4	53.0
DS-5	304.0
DS-6	278.0
DS-7	226.0
DS-8	135.0
DS-9	187.0
DS-10	77.8
DS-11	172.0
DS-12	617.0
DS-13	374.0
DS-14	162.0
DS-15	78.5

Note: PCB analysis by EPA Method 8082.

FINAL PROJECT CLOSEOUT REPORT
 Review, Recommendations, and Removal Action
 Site 84 Operable Unit 19
 MCB Camp Lejeune, North Carolina

QA/QC Sampling Test Results

Sample No.	PCB (ppm)
CLJ84-DT-01-DUP	50
CLJ84-DT-01-MS	25
CLJ84-DT-01-MSD	28
CLJ84-DT-EB	0.001U
CLJ84-DT-FB	0.001U
CLJ84-EB-01	0.001U
CLJ84-EB-02	0.001U
CLJ84-EB-03	0.001U
CLJ84-EB-04	0.001U
CLJ84-EB-05	0.001U
CLJ84-EB-06	0.0052
CLJ84-FB-01	0.001U
CLJ84-IP-03DUP	1.90
CLJ84-IP-04-MS	0.40
CLJ84-IP-04-MSD	0.37
CLJ84-IP-09-MS	1.60J
CLJ84-IP-09-MSD	1.40J
CLJ84-IP-10-DUP	67 (See Note 4)
CLJ84-IP-16-DUP	0.40

Notes:

1. PCB analysis by EPA Method 8082
2. "U" = not detected at detection limit, detection limit shown
3. "J" = estimated value shown
4. PCB concentrations were less than 10 ppm to a depth of two feet for samples taken west (downgradient) of Sample IP-10 in December 2005 (i.e., samples TP-19 and TP-30) (Rhēa, September 2006)

APPENDIX F

LABORATORY ANALYTICAL RESULTS

APPENDIX G
DATA VALIDATION SUMMARY

**DATA VALIDATION MEMORANDUM
SITE 84 -- CAMP LEJEUNE
PRE-DISPOSAL SAMPLES
SAMPLE DELIVERY GROUP NO. E0555**

Attached are data validation summary report for soil samples collected and analyzed as a part of the pre-disposal testing related to the remediation activities for Site 84 at Camp Lejeune, North Carolina.

The sampling activities occurred in April 2006. Rhēa personnel collected two soil samples, an equipment blank sample, and a field blank sample on April 28, 2006. The samples were submitted to Mitkem Corporation. (Mitkem) in Warwick, Rhode Island for analytical testing. Analyses of PCB organic compounds were performed using EPA Method 8082. Mitkem provided the analytical data to Rhēa in one Sample Delivery Group (E0555).

In June 2006, Mitkem provided the Site 84 analytical data and requisite quality control data for validation to Rhēa. Rhēa performed data validation as described in the EPA Contract Laboratory Program National Functional Guidelines for Organic Data Review and SW-846. Results of the data validation effort are summarized in the attached data validation reports.

In summary, the checked data were within acceptable quantitation and qualification limits. Minor issues were identified and qualifiers added, as appropriate. No major issues, however, were identified during the data validation effort.

QA/QC REVIEW OF 8082 PCB ORGANICS DATA

Site 84 -- Camp Lejeune Mitkem Sample Delivery Group No. E0555 (April 2006 - Soil Samples)

Data Completeness: The data deliverables pertaining to 2 soil samples, an equipment blank sample, and a field blank sample were complete.

Chain of Custody: The chain of custody documentation was complete.

Holding Times: The 2 soil samples, equipment blank, and field blank were analyzed within the required holding times. No qualifiers were applied.

Instrument Performance: The standard chromatograms document adequate peak separation and peak quantitation resolution. No qualifiers were applied.

Initial Calibration: The Aroclors of interest were analyzed at five different concentrations and had % RSDs below the allowable maximum (20%) for each column. The absolute retention times (RT) were within the calculated RT for each column. No qualifiers were applied.

Continuing Calibration: The Aroclors of interest had % Ds below the allowable maximum (15%) for the associated samples. No qualifiers were applied.

Blanks: The method blank samples (PBLK1F-water and PBLK1N-soil) reported all Aroclors of interest as not detected; no qualifiers were applied. The field blank sample (E0555-03) reported all Aroclors of interest as not detected; no qualifiers were applied. The equipment blank sample (E0555-04) reported all Aroclors of interest as not detected; no qualifiers were applied.

Surrogate Recovery: All surrogate recoveries for tetrachloro-m-xylene (TCX) and decachlorobiphenyl (DCB) were within control limits, with the exception of the equipment blank sample because surrogates were not spiked into the sample due to laboratory oversight. The associated LCS and method blank samples were within control limits; therefore, no qualifiers were applied.

Matrix Spike/Matrix Spike Duplicate: The percent recoveries and relative percent differences were within control limits for the MS/MSD sample. No qualifiers were applied.

LCS Analyses: Laboratory control spike (LCS) and laboratory control spike duplicate (LCSD) recoveries for the Aroclors of interest were within the control limits for the water and soil LCS/LCSD samples. No qualifiers were applied.

Compound ID: All positive-result compounds met RT criteria, peak height ratio, and pattern. Dual column confirmation identified the same Aroclors. No qualifiers were applied.

**DATA VALIDATION MEMORANDUM
SITE 84 -- CAMP LEJEUNE
IN-PLACE CONFIRMATION SAMPLES
SAMPLE DELIVERY GROUPS NO. E0745 and E0746**

Attached are data validation summary report for soil samples collected and analyzed as a part of the in-place confirmation testing related to the remediation activities for Site 84 at Camp Lejeune, North Carolina.

The sampling activities occurred in June 2006. Rhēa personnel collected 16 soil samples, an equipment blank sample, and a field blank sample on June 5, 2006. The samples were submitted to Mitkem Corporation. (Mitkem) in Warwick, Rhode Island for analytical testing. Analyses of PCB organic compounds were performed using EPA Method 8082. Mitkem provided the analytical data to Rhēa in two Sample Delivery Groups (E0745 and E0746).

In June 2006, Mitkem provided the Site 84 analytical data and requisite quality control data for validation to Rhēa. Rhēa performed data validation as described in the EPA Contract Laboratory Program National Functional Guidelines for Organic Data Review and SW-846. Results of the data validation effort are summarized in the attached data validation reports.

In summary, the checked data were within acceptable quantitation and qualification limits. Minor issues were identified and qualifiers added, as appropriate. No major issues, however, were identified during the data validation effort.

QA/QC REVIEW OF 8082 PCB ORGANICS DATA

Site 84 -- Camp Lejeune Mitekem Sample Delivery Groups No. E0745 and E0746 (June 2006 - Soil Samples)

Data Completeness: The data deliverables pertaining to 16 soil samples, an equipment blank sample, and a field blank sample were complete.

Chain of Custody: The chain of custody documentation was complete.

Holding Times: The 16 soil samples, equipment blank, and field blank were analyzed within the required holding times. No qualifiers were applied.

Instrument Performance: The standard chromatograms document adequate peak separation and peak quantitation resolution. No qualifiers were applied.

Initial Calibration: The Aroclors of interest were analyzed at five different concentrations and had % RSDs below the allowable maximum (20%) for each column. The absolute retention times (RT) were within the calculated RT for each column. No qualifiers were applied.

Continuing Calibration: The Aroclors of interest had % Ds below the allowable maximum (15%) for the associated samples. No qualifiers were applied.

Blanks: The method blank samples reported all Aroclors of interest as not detected; no qualifiers were applied. The equipment blank sample (E0745-01) reported all Aroclors of interest as not detected; no qualifiers were applied. The field blank sample (E0745-02) reported all Aroclors of interest as not detected; no qualifiers were applied.

Surrogate Recovery: All surrogate recoveries for tetrachloro-m-xylene (TCX) and decachlorobiphenyl (DCB) were within control limits, with the exception of two samples (E0746-11 {IP-10} and E0746-12 {IP-10Dup}) which were analyzed at dilution due to the concentration of the target analytes. No qualifier/action is taken on low surrogate recovery alone if the laboratory control sample (LCS) recoveries are within acceptable limits. The associated LCS samples were within control limits; therefore, no qualifiers were applied.

Matrix Spike/Matrix Spike Duplicate: The percent recoveries and relative percent differences were within control limits for one of the two MS/MSD samples {IP-04}. The other MS/MSD sample, IP-09, had percent recoveries and relative percent differences outside control limits for Aroclor 1260 due to high levels of Aroclor 1260 in the sample relative to the spike amount. No qualifier/action is taken on MS/MSD analysis alone if the laboratory control sample recoveries are within acceptable limits. The associated LCS samples were within control limits; therefore, no qualifiers were applied.

LCS Analyses: Laboratory control spike (LCS) and laboratory control spike duplicate (LCSD) recoveries for the Aroclors of interest were within the control limits for the water and soil LCS/LCSD samples. No qualifiers were applied.

Compound ID: All positive-result compounds met RT criteria, peak height ratio, and pattern. Dual column confirmation identified the same Aroclors. No qualifiers were applied.

DATA VALIDATION MEMORANDUM
SITE 84 -- CAMP LEJEUNE
IN-PLACE CONFIRMATION AND SIDEWALL SAMPLES
SAMPLE DELIVERY GROUPS NO. E0760,
E0784, and E0794

Attached are data validation summary report for soil samples collected and analyzed as a part of the in-place confirmation testing related to the remediation activities for Site 84 at Camp Lejeune, North Carolina.

The sampling activities occurred in June 2006. Rhēa personnel collected 15 soil samples and 5 equipment blank samples during June 6 - 13, 2006. The samples were submitted to Mitkem Corporation. (Mitkem) in Warwick, Rhode Island for analytical testing. Analyses of PCB organic compounds were performed using EPA Method 8082. Mitkem provided the analytical data to Rhēa in three Sample Delivery Groups (E0760, E0784, and E0794).

In July 2006, Mitkem provided the Site 84 analytical data and requisite quality control data for validation to Rhēa. Rhēa performed data validation as described in the EPA Contract Laboratory Program National Functional Guidelines for Organic Data Review and SW-846. Results of the data validation effort are summarized in the attached data validation reports.

In summary, the checked data were within acceptable quantitation and qualification limits. Minor issues were identified and qualifiers added, as appropriate. No major issues, however, were identified during the data validation effort.

QA/QC REVIEW OF 8082 PCB ORGANICS DATA

Site 84 -- Camp Lejeune Mitkem Sample Delivery Group No. E0760 (June 2006 - Soil Samples)

Data Completeness: The data deliverables pertaining to 8 soil samples and 2 equipment blank samples were complete.

Chain of Custody: The chain of custody documentation was complete.

Holding Times: The 8 soil samples and 2 equipment blank samples were analyzed within the required holding times. No qualifiers were applied.

Instrument Performance: The standard chromatograms document adequate peak separation and peak quantitation resolution. No qualifiers were applied.

Initial Calibration: The Aroclors of interest were analyzed at five different concentrations and had % RSDs below the allowable maximum (20%) for each column. The absolute retention times (RT) were within the calculated RT for each column. No qualifiers were applied.

Continuing Calibration: The Aroclors of interest had % Ds below the allowable maximum (15%) for the associated samples. No qualifiers were applied.

Blanks: The method blank samples reported all Aroclors of interest as not detected; no qualifiers were applied. The two equipment blank samples (E0760-01 and E0760-02) reported all Aroclors of interest as not detected; no qualifiers were applied.

Surrogate Recovery: All surrogate recoveries for tetrachloro-m-xylene (TCX) and decachlorobiphenyl (DCB) were within control limits except for samples which were analyzed at dilution due to the concentration of the target analytes. No qualifier/action is taken on low surrogate recovery alone if the laboratory control sample (LCS) recoveries are within acceptable limits. The associated LCS samples were within control limits; therefore, no qualifiers were applied.

Matrix Spike/Matrix Spike Duplicate: There were no MS/MSD analyses performed for this SDG; however, a laboratory control spike was analyzed.

LCS Analyses: Laboratory control spike (LCS) and laboratory control spike duplicate (LCSD) recoveries for the Aroclors of interest were within the control limits for the water and soil LCS/LCSD samples. No qualifiers were applied.

Compound ID: All positive-result compounds met RT criteria, peak height ratio, and pattern. Dual column confirmation identified the same Aroclors. No qualifiers were applied.

QA/QC REVIEW OF 8082 PCB ORGANICS DATA

Site 84 -- Camp Lejeune Mitkem Sample Delivery Group No. E0784 (June 2006 - Soil Samples)

Data Completeness: The data deliverables pertaining to 3 soil samples and 1 equipment blank sample were complete.

Chain of Custody: The chain of custody documentation was complete.

Holding Times: The 3 soil samples and 1 equipment blank sample were analyzed within the required holding times. No qualifiers were applied.

Instrument Performance: The standard chromatograms document adequate peak separation and peak quantitation resolution. No qualifiers were applied.

Initial Calibration: The Aroclors of interest were analyzed at five different concentrations and had % RSDs below the allowable maximum (20%) for each column. The absolute retention times (RT) were within the calculated RT for each column. No qualifiers were applied.

Continuing Calibration: The Aroclors of interest had % Ds below the allowable maximum (15%) for the associated samples. No qualifiers were applied.

Blanks: The method blank samples reported all Aroclors of interest as not detected; no qualifiers were applied. The equipment blank sample (E0784-04) reported all Aroclors of interest as not detected; no qualifiers were applied.

Surrogate Recovery: All surrogate recoveries for tetrachloro-m-xylene (TCX) and decachlorobiphenyl (DCB) were within control limits except for samples which were analyzed at dilution due to the concentration of the target analytes. No qualifier/action is taken on low surrogate recovery alone if the laboratory control sample (LCS) recoveries are within acceptable limits. The associated LCS samples were within control limits; therefore, no qualifiers were applied.

Matrix Spike/Matrix Spike Duplicate: There were no MS/MSD analyses performed for this SDG; however, a laboratory control spike was analyzed.

LCS Analyses: Laboratory control spike (LCS) and laboratory control spike duplicate (LCSD) recoveries for the Aroclors of interest were within the control limits for the water and soil LCS/LCSD samples. No qualifiers were applied.

Compound ID: All positive-result compounds met RT criteria, peak height ratio, and pattern. Dual column confirmation identified the same Aroclors. No qualifiers were applied.

QA/QC REVIEW OF 8082 PCB ORGANICS DATA

Site 84 -- Camp Lejeune Mitkem Sample Delivery Group No. E0794 (June 2006 - Soil Samples)

Data Completeness: The data deliverables pertaining to 4 soil samples and 2 equipment blank samples were complete.

Chain of Custody: The chain of custody documentation was complete.

Holding Times: The 4 soil samples and 2 equipment blank samples were analyzed within the required holding times. No qualifiers were applied.

Instrument Performance: The standard chromatograms document adequate peak separation and peak quantitation resolution. No qualifiers were applied.

Initial Calibration: The Aroclors of interest were analyzed at five different concentrations and had % RSDs below the allowable maximum (20%) for each column. The absolute retention times (RT) were within the calculated RT for each column. No qualifiers were applied.

Continuing Calibration: The Aroclors of interest had % Ds below the allowable maximum (15%) for the associated samples. No qualifiers were applied.

Blanks: The method blank samples reported all Aroclors of interest as not detected; no qualifiers were applied. The equipment blank sample, E0794-05 reported all Aroclors of interest as not detected. The equipment blank sample, E0794-06 reported the Aroclors of interest as not detected, with the exception of Aroclor 1260. Detects for Aroclor 1260 in the samples that are less than the blank action levels (5X the blank concentration) are flagged (B) when detected in the associated samples.

Surrogate Recovery: All surrogate recoveries for tetrachloro-m-xylene (TCX) and decachlorobiphenyl (DCB) were within control limits except for samples which were analyzed at dilution due to the concentration of the target analytes. No qualifier/action is taken on low surrogate recovery alone if the laboratory control sample (LCS) recoveries are within acceptable limits. The associated LCS samples were within control limits; therefore, no qualifiers were applied.

Matrix Spike/Matrix Spike Duplicate: There were no MS/MSD analyses performed for this SDG; however, a laboratory control spike was analyzed.

LCS Analyses: Laboratory control spike (LCS) and laboratory control spike duplicate (LCSD) recoveries for the Aroclors of interest were within the control limits for the water and soil LCS/LCSD samples. No qualifiers were applied.

Compound ID: All positive-result compounds met RT criteria, peak height ratio, and pattern. Dual column confirmation identified the same Aroclors. No qualifiers were applied.