



OHM Corporation

**FINAL REPORT FOR SOIL REMEDIATION
SPENT ACID STORAGE AND DISPOSAL AREA
NEW LONDON NAVAL SUBMARINE BASE
GROTON, CONNECTICUT**

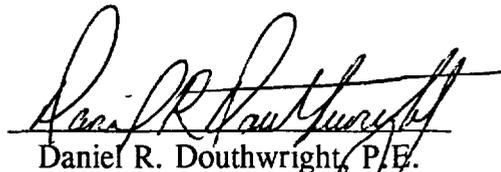
Prepared for:

DEPARTMENT OF THE NAVY
Contract No. N62470-93-D-3032
Northern Division
Naval Facilities Engineering Command
10 Industrial Highway
Mail Stop #82
Lester, Pennsylvania 19113

Prepared by:

OHM Remediation Services Corp.
88C Elm Street
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Daniel R. Douthwright, P.E.
Project Manager

September 6, 1995
OHM Project 16600
Delivery Order 0050

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A	Hazardous Waste Manifests
B	Complete Analytical Results

1.0 INTRODUCTION AND PROJECT BACKGROUND

1.1 INTRODUCTION

The Northern Division (NORTHDIV) of the Naval Facilities Engineering Command (NAVFACENGCOM) has issued Delivery Order (DO) Number 0050 to OHM Remediation Services Corp. (OHM), a wholly-owned subsidiary of OHM Corporation, under Navy Atlantic Division (LANTDIV) Remedial Action Contract (RAC) N62470-93-D-3032. DO 0050 provides for the removal of a spent acid tank located adjacent to Building (Bldg) 408 at the Naval Submarine Base-New London (NSB-NLON) located in Groton, Connecticut. The DO was signed on August 15, 1995 and the work was performed as specified in the site-specific Statement of Work (OHM, 1994a).

This Final Report discusses the activities performed by OHM at the Spent Acid Storage and Disposal Area (the Site) and presents the results of the verification sampling and analysis performed by OHM to confirm that site-specific Preliminary Remediation Goals (PRGs) for lead-contaminated soil were met by the removal action.

1.2 PROJECT BACKGROUND

NSB-NLON is located on the east bank of the Thames River in southeastern Connecticut, approximately 6 miles upriver from Long Island Sound (Figure 1-1). It was established as an official Navy yard in July 1886, and currently occupies an area of approximately 547 acres in the towns of Ledyard and Groton. This facility was placed on the National Priority List (NPL) on August 28, 1991 by the U.S. Environmental Protection Agency (USEPA) pursuant to the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) OF 1980.

The Site is located in the southern portion of NSB-NLON and is bounded by Tang Avenue on the south side and by Golet Avenue on the east side (Figure 1-2). Buildings 409 and 410 are located on the western and eastern sides of the site, respectively. The spent acid tank was located in the northern half of the site.

The spent acid tank (tank) was constructed of rubber-clad metal walls set in a 6-inch thick concrete base. The tank was 3-feet wide, 15-feet long, and 3-feet deep. It was filled with earth and capped with bituminous concrete pavement. PRGs for lead-contaminated soil at this site were set at 500 milligrams per kilogram (mg/kg) for total lead, and 5.0 milligrams per liter (mg/l) for Toxicity Characteristic Leaching Procedure (TCLP) lead.

1.3 REPORT OBJECTIVES

The objective of this Final Report is to discuss the site activities performed by OHM and present the results of the post-excavation confirmatory sampling and analysis program conducted to verify that the following goals have been met:

- All contaminated pavement, tank contents, and tank materials have been excavated, characterized, and properly disposed of.
- All soil around and beneath the spent acid tank to a depth of 4 feet below ground surface (BGS), or with a total lead concentration of 500 mg/kg or more, or a TCLP extract lead concentration of 5.0 mg/L or more, have been excavated and properly disposed of.
- The site has been regraded, repaved, and restored to its original condition.

1.4 REPORT ORGANIZATION

Section 1.0 of this Final Report consists of the above introduction and project background. Section 2.0 describes the removal action, confirmation sampling, disposal activities, and procedures. Section 3.0 describes the confirmation sampling and presents the analytical results. Section 4.0 discusses the site restoration. Appendices to this report include all hazardous waste manifests and complete analytical results. All summary tables are presented in the Tables section, and all figures are contained in the Figures section.

2.0 REMOVAL OPERATIONS AND DISPOSAL ACTIVITIES

All tank removal, tank demolition, soil excavation, and load out activities were performed using EPA Level C protection. Certified waste hauling trucks were provided by Merola Enterprises, Inc. (USEPA ID Number NJD986609949) of Kearney, New Jersey. All demolition debris and excavated soils were transported to the Envotech Management Services, Inc. (ENVOTECH) (USEPA ID Number MID000724831) Environmental Protection Facility located at 49350 North I-94 Service Drive in Belleville, Michigan (the disposal facility).

2.1 PAVEMENT REMOVAL, TANK REMOVAL, AND SOIL EXCAVATION

OHM located and marked out the proposed excavation area shown on Figure 1-2 in preparation for pavement removal. This area was inspected and approved by Mr. Everitt Milan, P.E. of HRP Associates who provided oversight and approval for all activities at this site.

Concrete and bituminous concrete pavement were saw-cut and reduced in size to less than 3 feet in any dimension. The pavement pieces were left in place and covered with polyethylene sheets to prevent off-site migration of contaminants until the tank removal and soil excavation began. Leaving the pavement pieces in place allowed them to be loaded onto the certified waste hauling trucks along with the tank pieces and contaminated soil. This procedure also eliminated the need to establish a stockpile area at this site.

Once the concrete cap was removed from the tank, the contents were removed using a rubber tire excavator with a small bucket attachment. After the tank was emptied, the metal sidewalls and concrete base were cut into pieces not greater than 3-feet wide in any dimension. Following the tank removal, all soil in the proposed excavation area was removed to a depth of 4 feet BGS. Ground water was not encountered during excavation and all soil removed was dry.

Pavement, tank debris, and excavated soil were placed directly into certified waste hauling trucks for transportation to the disposal facility. All excavated soils were dry, therefore, paint filter tests were not required.

2.2 HAZARDOUS WASTE DISPOSAL

Waste materials were loaded and transported off site on 9-11 January 1995. Fourteen truck loads of material with a combined weight of 636,070 pounds, or 318 tons, were transported to the disposal facility (Table 2-1). Copies of all hazardous waste manifests are contained in Appendix A.

3.0 POST-EXCAVATION SAMPLING AND ANALYTICAL RESULTS

Following removal of the spent acid tank and excavation of contaminated soil, confirmatory soil samples were collected from the walls and floor of the excavation pit for analysis of total lead and TCLP lead in order to confirm that site-specific PRGs had been achieved. Lead was the contaminant of concern (COC) and PRGs for were set at 500 mg/kg total lead and 5.0 mg/l TCLP lead.

3.1 POST-EXCAVATION SAMPLING

Post-excavation confirmatory sampling was performed in accordance with the Draft Sampling and Analysis Plan for Soil Remediation at the Spent Acid Storage and Disposal Area (OHM, 1994b). Composite samples were collected from the sidewalls at a frequency of 1 sample for each sidewall greater than or equal to 10 feet in length at maximum horizontal intervals of 30 feet, while bottom samples were collected at a frequency of 1 sample per 250 square feet of bottom area. Four composite sidewall samples and 1 duplicate sidewall sample were collected along with 1 composite bottom sample for analysis. One field blank and one equipment rinsate sample were also collected and submitted for analysis. The number of discrete sampling points contributing to each composite sample, the composite sampling locations, and the sampling dates are presented on Table 3-1. Post-excavation sampling points are shown on Figure 3-1.

3.2 ANALYTICAL RESULTS

All analytical results were below site-specific PRGs. Total lead concentrations in the 5 composite confirmatory samples ranged from 432 mg/kg in sample 16600-SC, the south sidewall sample, to 6.13 mg/kg in sample 16600-NC, the north sidewall sample. TCLP lead concentrations ranged from 3.32 mg/l in sample 16600-BC, collected from the bottom of the excavation, to 0.018 mg/l in sample 16600-NC. Analytical results for all confirmatory soil and quality control/quality assurance (QA/QC) samples are presented in Table 3-1. Complete analytical results are contained in Appendix B.

4.0 SITE RESTORATION

4.1 BACKFILLING AND GRADING

Backfilling of the excavation began immediately following approval of the confirmation sampling analytical results. Backfill and select subgrade fill was placed in 6-inch lifts. The top 12 inches of subgrade and select fill was compacted to 95% of ASTM D-1557. Field testing for density was performed by Material Testing, Inc. to assure compliance with project specifications.

4.2 BITUMINOUS CONCRETE PAVING

As part of the site restoration task, OHM repaved the excavation area shown on Figure 1-2 with bituminous concrete. The northeastern side of the excavation area was to be repaved with concrete, however, OHM field-modified this requirement after discussions with the Navy in order to reduce the cost of the repaving. The pavement was installed to original grades in order to return the site to near original condition. All pavement materials were cored and tested by Material Testing, Inc. to assure compliance with project specifications.

4.3 SITE CLEANUP

As the final step in the site cleanup, OHM removed all temporary perimeter fencing and work zone fencing. All post holes were patched, and all utility connections were removed. The decontamination pad was cleaned and removed, and all project facilities were demobilized. All sediments collected during the cleaning of the decontamination pad were placed in a drum provided by Franklin Environmental for transportation to the disposal facility.

5.0 REFERENCES

OHM, 1994a, Draft Work Plan for Soil Remediation, Spent Acid Storage and Disposal Area, New London Naval Submarine Base, Groton, Connecticut: November.

OHM, 1994b, Draft Sampling and Analysis Plan for Soil Remediation, Spent Acid Storage and Disposal Area, New London Naval Submarine Base, Groton, Connecticut: November.

TABLES

TABLE 2-1: Summary of Disposal Volumes
Spent Acid Storage and Disposal Area

Hazardous Waste Manifest Number	Date	Manifest Quantity (lbs)	Daily Quantity (lbs)
MI 3664650	01/09/95	46,340	
MI 3664651	01/09/95	46,820	
MI 3664652	01/09/95	45,250	
MI 3664653	01/09/95	43,120	
MI 3664654	01/09/95	40,480	222,010
MI 3664655	01/10/95	52,500	
MI 3664656	01/10/95	45,065	
MI 3664657	01/10/95	45,920	
MI 3664658	01/10/95	38,200	
MI 3664659	01/10/95	50,200	231,885
MI 3664660	01/11/95	42,375	
MI 3664661	01/11/95	46,800	
MI 3664662	01/11/95	48,400	
MI 3664664	01/11/95	44,600	182,175
TOTAL (lbs)		636,070	
TOTAL (tons)		318	

TABLE 3-1: Post-excavation Confirmatory Soil Sampling Results
Spent Acid Storage and Disposal Area

Sample Number	Total Lead (mg/kg)	TCLP Lead (mg/l)	Sample Description	Date Collected
PRGs	500	5.0	Site-specific Preliminary Remediation Goals	NA
16600-BC	390	3.32	6-point composite from bottom of excavation	01/11/95
16600-NC	6.13	0.018	3-point composite from north wall of excavation	01/11/95
16600-SC	432	1.40	5-point composite from south wall of excavation	01/11/95
16600-EC	147	0.375	5-point composite from east wall of excavation	01/11/95
16600-WC	22.8	1.45	5-point composite from west wall of excavation	01/11/95
16600-DUP	21.8	0.044	QA/QC sample - field duplicate of 16600-WC	01/11/95
16600-FB	<0.020	--	QA/QC sample - field blank	01/11/95
16600-ER	<0.020	--	QA/QC sample - rinsate blank	01/11/95

NOTES:

mg/kg = milligrams per kilogram (parts per million)

mg/l = milligrams per liter (parts per million)

-- = sample not analyzed for this parameter

FIGURES

DRAWING NUMBER
16600A3

APPROVED BY

CHECKED BY
SJA

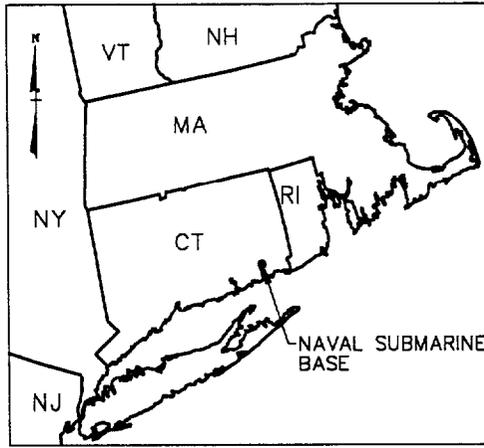
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FD 108-74-95

OHM CORPORATION
HOPKINTON, MA

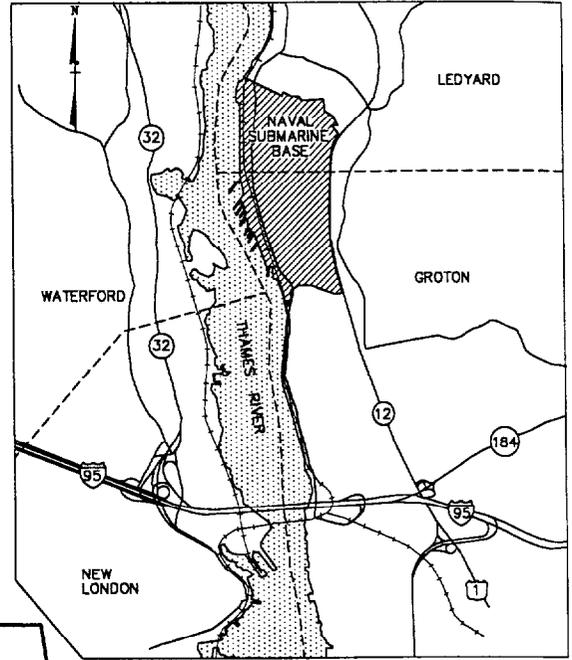
DATE

SCALE

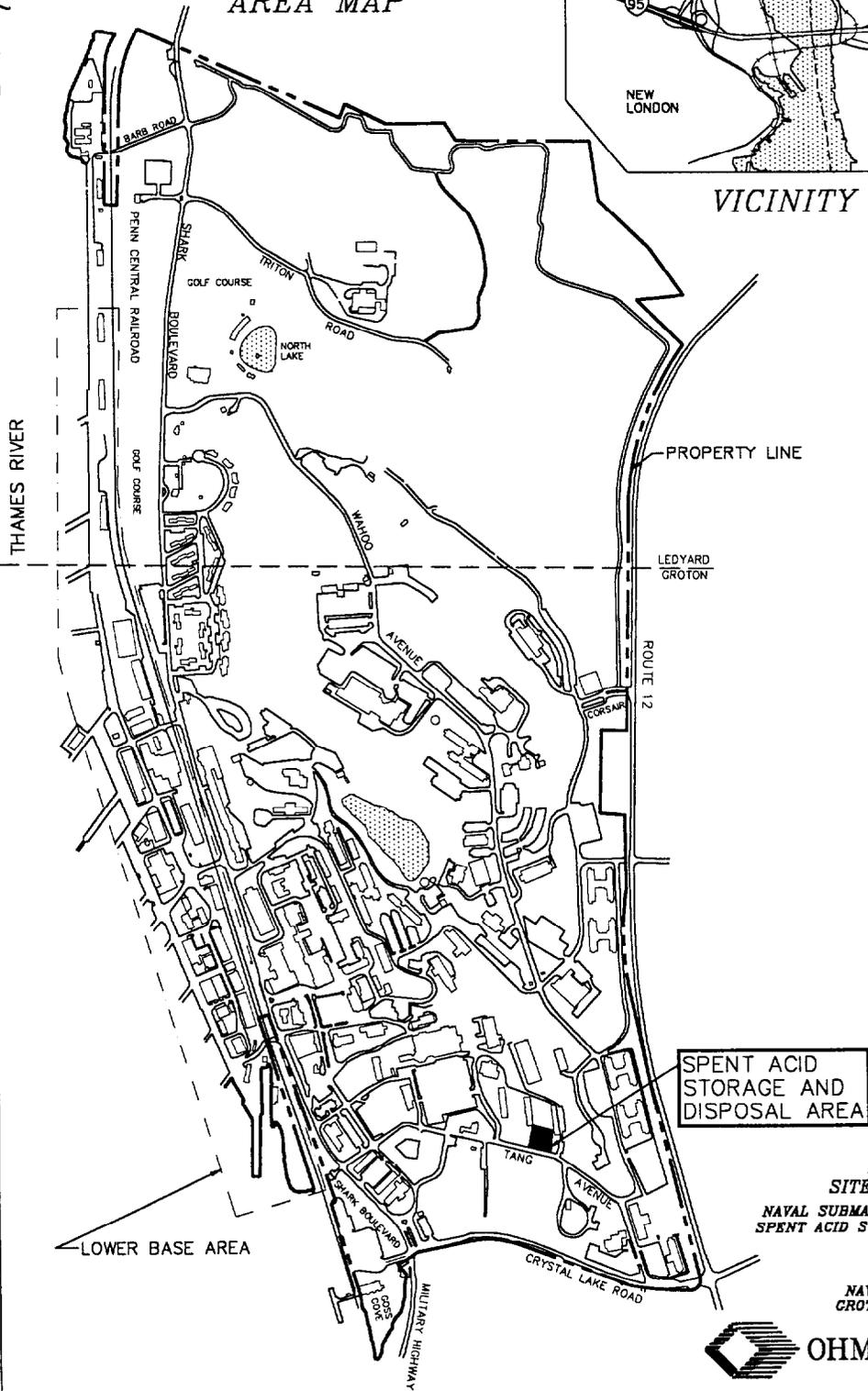
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AREA MAP



VICINITY MAP



SPENT ACID
STORAGE AND
DISPOSAL AREA

FIGURE 1-1
SITE LOCATION MAP
NAVAL SUBMARINE BASE - NEW LONDON
SPENT ACID STORAGE AND DISPOSAL AREA

PREPARED FOR
NAVSUBASE - NLON
GROTON, CONNECTICUT

PLOT SCALE: 1"=30'

OHM CORPORATION HOPKINTON, MA	DRAWN BY FD 08-14-95	CHECKED BY SM 8/2/95	APPROVED BY	DRAWING NUMBER 16600A2
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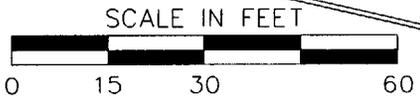
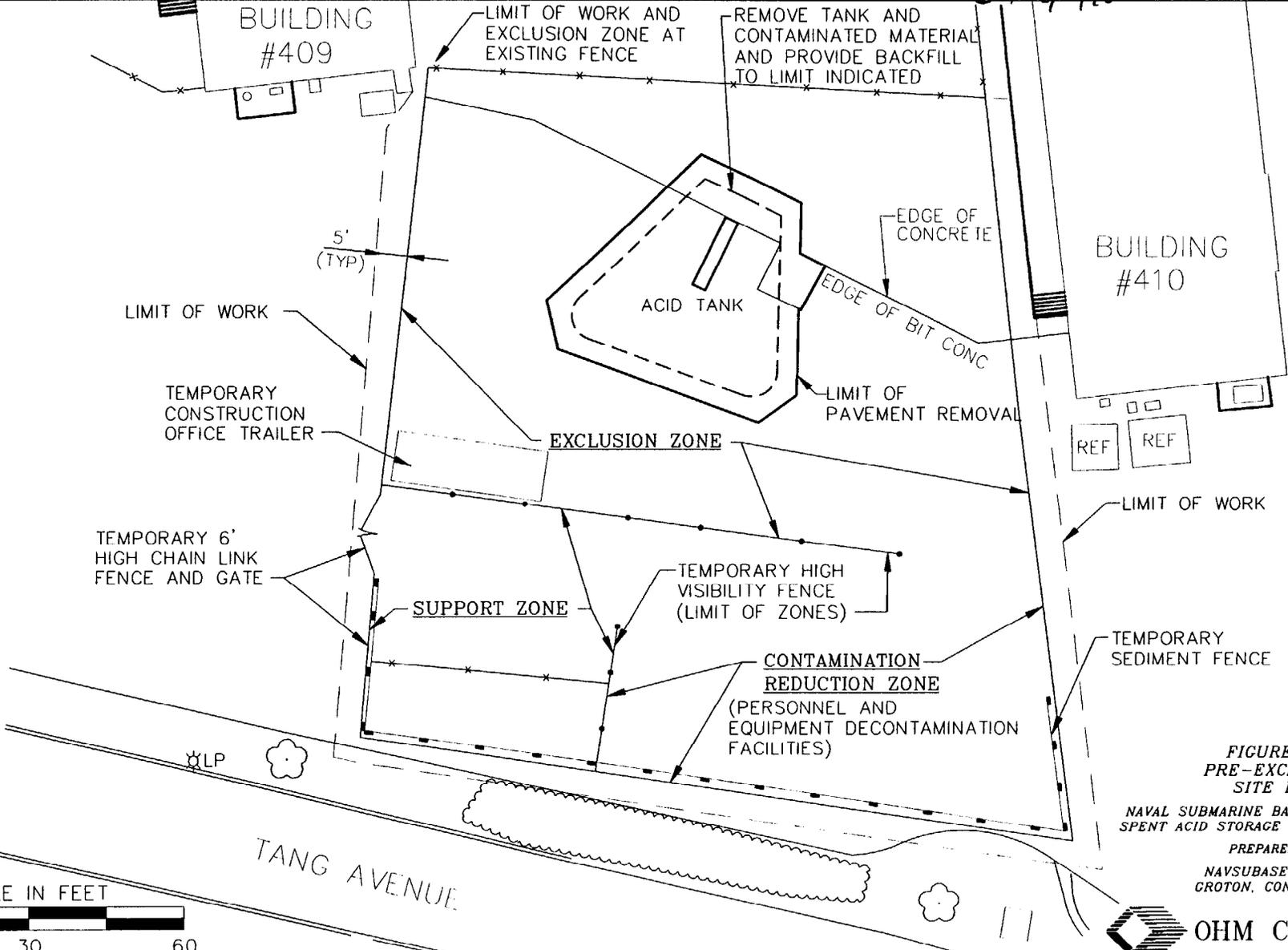
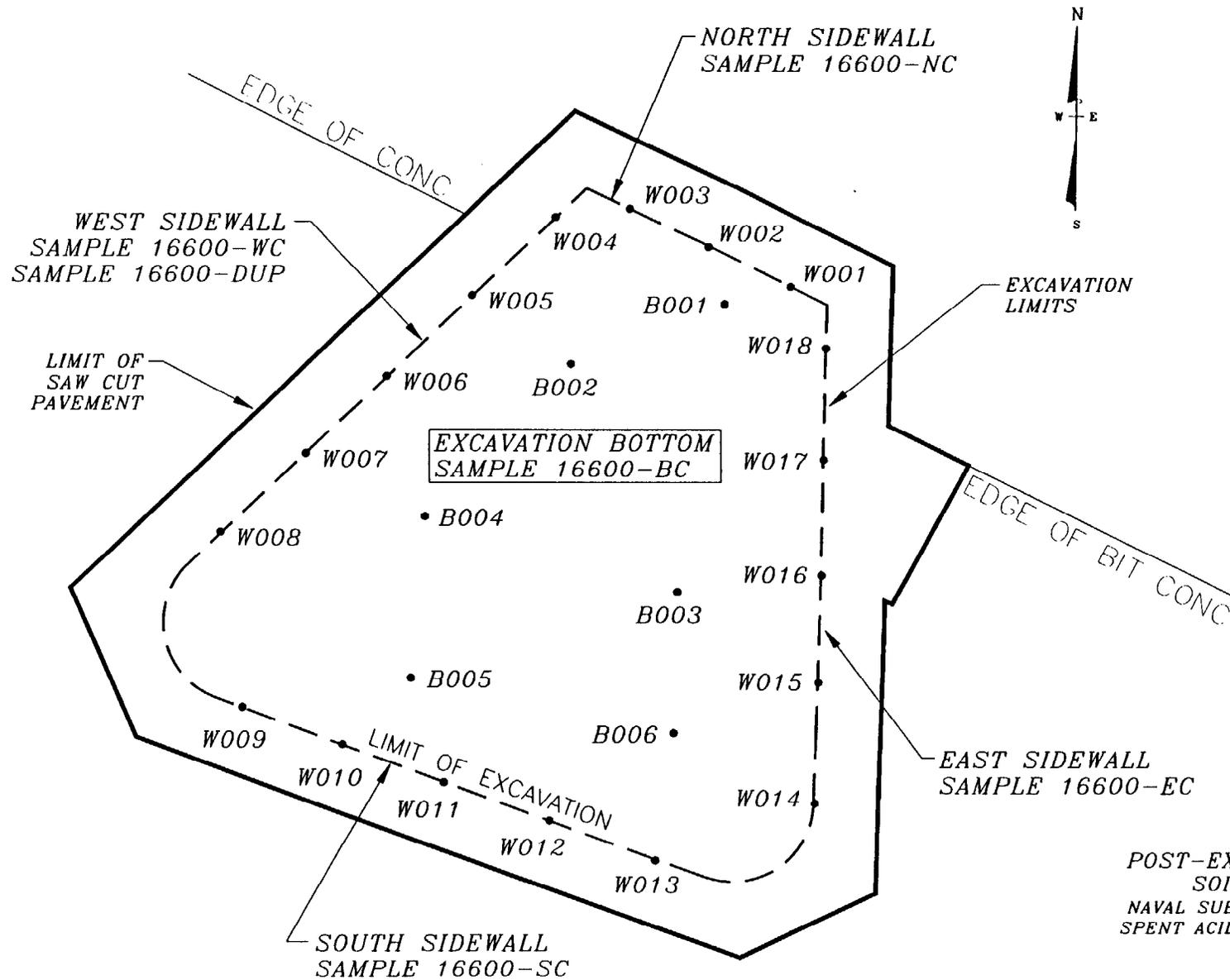


FIGURE 1-2
PRE-EXCAVATION
SITE PLAN
NAVAL SUBMARINE BASE - NEW LONDON
SPENT ACID STORAGE AND DISPOSAL AREA
PREPARED FOR
NAVSUBASE - NLON
CROTON, CONNECTICUT



PLOT SCALE: 1"=10'

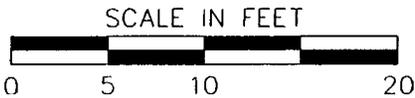
OHM CORPORATION HOPKINTON, MA	DRAWN BY FD	CHECKED BY SM 8/21/95	APPROVED BY	DRAWING NUMBER 16600A1
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SAMPLE NUMBER	COMPOSITE POINTS
16600-NC	W-001
	W-002
	W-003
16600-WC 16600-DUP	W-004
	W-005
	W-006
	W-007
	W-008
16600-SC	W-009
	W-010
	W-011
	W-012
	W-013
16600-EC	W-014
	W-015
	W-016
	W-017
	W-018
16600-BC	B-001
	B-002
	B-003
	B-004
	B-005
	B-006

FIGURE 3-1
POST-EXCAVATION CONFIRMATORY
SOIL SAMPLING POINTS
NAVAL SUBMARINE BASE - NEW LONDON
SPENT ACID STORAGE AND DISPOSAL AREA

PREPARED FOR
NAVSUBASE - NLON
GROTON, CONNECTICUT



APPENDIX A

HAZARDOUS WASTE MANIFESTS



MANAGEMENT SERVICES, INCORPORATED

Environmental Protection Facility
49350 North I-94 Service Drive
Belleville, Michigan 48111
(313) 697-7830

Date 12/19/94

Approval Number: 121994 MG

DRMO - GROTON
NAVAL SUBMARINE
P.O. BOX 12
GROTON CT 06349
Attn: MAUREEN ADAMSON

Re: Waste disposal at ENVOTECH MANAGEMENT SERVICES,
EPA Identification Number MID000724831

Dear Sir/Madam,

This letter acknowledges the acceptability of the waste described below and that Envotech/Wayne Disposal, Inc. has the appropriate permit(s) to properly dispose of your waste.

1. General Description:
LEAD CONTAMINATED SOIL
2. EPA Waste Code: D008
Additional Waste Type:
3. Generator EPA Identification Number: CT4170022020
4. Please refer to our approval number 121994 MG when shipping or making any inquiries about the waste stream

PLEASE NOTE: This approval is based on information supplied to us by your company. As the Generator you are responsible for the accuracy of the characterization information. This approval is valid for a period of one year. You will be notified 90 days prior to the expiration of the recertification requirements to keep this approval active. Contact your transporter or broker to schedule the delivery of your waste. All shipments must be scheduled 72 hours prior to shipping.

If you have any questions, please do not hesitate to call us at 1-800-368-6835.

DNR TR 1
MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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

Required under authority of Act 54 PA 1979 as amended and Act 136 PA 1969

Failure to file is punishable under section 299 548 MCL or Section 10 of Act 136 PA 1969

Please print or type

Form Approved. OMB No. 2050-0039 Expires 9-30-94

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No CT 4 1 7 0 0 2 2 0 2 0		Manifest Document No K 5292		2 Page 1 of 1		Information in the shaded areas is not required by Federal law					
3 Generator's Name and Mailing Address Naval Submarine Base New London Rt. 12 & Crystal Lake Rd. Groton, CT 06349				A. State Manifest Document Number MI 3664650				B. State Generator's ID					
4 Generator's Phone (203) 449-5164				5 Transporter 1 Company Name Merola Enterprises, Inc.				6 US EPA ID Number NJ ID 9 18 16 10 19 19 14 19				C. State Transporter's ID NJ TAE5197	
7 Transporter 2 Company Name				8 US EPA ID Number				D. Transporter's Phone 201-589-1600					
9 Designated Facility Name and Site Address The Environmental Quality Co. 49350 N. I-95 Belleville, MI 48111				10 US EPA ID Number MI ID 0 14 18 10 19 10 16 13 13				E. State Transporter's ID					
								F. Transporter's Phone					
								G. State Facility's ID					
								H. Facility's Phone 313-697-7830					
11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM ID NUMBER).						12 Containers No. Type		13 Total Quantity		14 Unit Mt. Vol		1. Waste No. N/H	
a. X RQ, Hazardous Waste Solid, N.O.S.; 9, NA3077, PG III (lead)						0 1 0 1 DIT		46340 MA 43610P		D D D B		H	
b.													
c.													
d.													
J. Additional Descriptions for Materials Listed Above 11a) lead contaminated soil (ERG #31) Approval #: 121994MG						K. Handling Codes for Wastes Listed Above						a/ /	
												b/ /	
												c/ /	
												d/ /	
15. Special Handling Instructions and Additional Information Emergency Contact: Tom Joyner, OHM, 800-562-2953													
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 Carmen E. Edmondston						Signature Carmen E. Edmondston						Date 11/19/93	
17 Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Edward McAll						Signature Edward McAll						Date 11/19/93	
18 Transporter 2 Acknowledgement 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 Month Day Year	

ALL INFORMATION REPORTED TO THE MICHIGAN DEPARTMENT OF NATURAL RESOURCES IS SUBJECT TO THE MICHIGAN FREEDOM OF INFORMATION ACT. FOR MORE INFORMATION, CONTACT THE MICHIGAN DEPARTMENT OF NATURAL RESOURCES, 1000 ZEEB DRIVE, LANSING, MI 48206. TELEPHONE: (313) 373-7600. FAX: (313) 373-7601.



MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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

Required under authority of Act 54 PA 1979 as amended and Act 136 PA 1969

Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136 PA 1969

base print or type

Form Approved: OMB No. 2050-0039 Expires 9-30-94

UNIFORM HAZARDOUS WASTE MANIFEST

1 Generator's US EPA ID No. **CT 4170022020** Manifest Document No. **CE7143** 2 Page 1 of 1 Information in the shaded areas is not required by Federal law

3 Generator's Name and Mailing Address: **Naval Submarine Base New London Rt. 12 & Crystal Lake Rd. Groton, CT 06349**
A. State Manifest Document Number: **MI 3664651**
B. State Generator's ID

4 Generator's Phone (203) **449-5164**

5 Transporter 1 Company Name: **Merola Enterprises, Inc.** 6. US EPA ID Number: **NIJ ID 98161019191419** C. State Transporter's ID: **NJ T922TP**
D. Transporter's Phone: **201-589-1600**

7 Transporter 2 Company Name 8. US EPA ID Number E. State Transporter's ID

9 Designated Facility Name and Site Address: **The Environmental Quality Co. 49350 N. I-95 Belleville, MI 48111** 10. US EPA ID Number: **MI ID 04801910161313** F. Transporter's Phone
G. State Facility's ID
H. Facility's Phone: **313-697-7830**

11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM ID NUMBER): **RQ, Hazardous Waste Solid, N.O.S.; 9, NA3077, PG III (lead)**
12 Containers: **01011** 13. Total Quantity: **46820** 14. Unit: **P** 1. Waste No.: **008** N/H: **H**

a	b	c	d	12 Containers No	12 Containers Type	13. Total Quantity	14. Unit	1. Waste No.	N/H
X				01011	DIT	46820	P	008	H

J. Additional Descriptions for Materials Listed Above
11a) **lead contaminated soil (ERG #31)**
Approval #: 121994MG
K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information
Emergency Contact: Tom Joyner, OHM, 800-562-2953

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: **Robert Bous** Signature: *Robert Bous* Date: **01/09/95**

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: **John Greco** Signature: *John Greco* Date: **01/09/95**

18. Transporter 2 Acknowledgement 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 SPIRALS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373/860 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-6343

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

DNR

DO NOT WRITE IN THIS SPACE

ATT. DIS. REJ. PR.

1979 as amended and Act 111 of 1969
 Failure to file is punishable under section 293.546 MCL or Section 293.546 Act 136 PA 1965

Form Approved OMB No 2050-0039 Expires 10-94

Please print or type

UNIFORM HAZARDOUS WASTE MANIFEST

1 Generator's US EPA ID No. **CT 4170022020** Manifest Document No. **1214** 2 Page 1 of 1 Information in the shaded areas is not required by Federal law

3 Generator's Name and Mailing Address **Naval Submarine Base New London Rt. 12 & Crystal Lake Rd. Groton, CT 06349**

A. State Manifest Document Number **MI 3664652**
 B. State Generator's ID

4 Generator's Phone (203) **449-5164**

5 Transporter 1 Company Name **Merola Enterprises, Inc.** 6. US EPA ID Number **NJID 981610191419**

C. State Transporter's ID **NETB06RH**
 D. Transporter's Phone **201-589-1600**

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 **The Environmental Quality Co. 49350 N. I-95 Belleville, MI 48111** 10. US EPA ID Number **MID0480906133**

G. State Facility's ID
 H. Facility's Phone **313-697-7830**

a	11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM ID NUMBER)	12 Containers		13 Total Quantity	14 Unit Mt. Vol	1. Waste No.	N/H
		No.	Type				
X	RQ, Hazardous Waste Solid, N.O.S.; 9, NA3077, PG III (lead)	0	1	45250	0	0	1
b							
c							
d							

J. Additional Descriptions for Materials Listed Above
 11a) lead contaminated soil (ERG #31)
 Approval #: 121994MG

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

15. Special Handling Instructions and Additional Information
Emergency Contact: Tom Joyner, OHM, 800-562-2953

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.
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Printed/Typed Name **Robert Brown** Signature *Robert Brown* Date **01/15/95**

17 Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name **MARK CLEASO** Signature *Mark Cleaso* Date **01/19/95**

18. Transporter 2 Acknowledgement or 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 317-373-7600 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-6424

PLEASE INSTRUCTIONS ON BACK OF MANIFEST

TTC-4



MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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Required under authority of Act 64 PA 1979 as amended and Act 136 PA 1969

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Form Approved. OMB No. 2050-0039 Expires 9-30-94

UNIFORM HAZARDOUS WASTE MANIFEST

1 Generator's US EPA ID No. **CT 4 1 7 0 0 2 2 0 2 0** Manifest Document No. **121416**

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

3 Generator's Name and Mailing Address **Naval Submarine Base New London Rt. 12 & Crystal Lake Rd. Groton, CT 06349**

A. State Manifest Document Number **MI 3664653**
B. State Generator's ID

4 Generator's Phone (203) **449-5164**

5 Transporter 1 Company Name **Merola Enterprises, Inc.** 6. US EPA ID Number **NJ 0 9 8 16 10 19 19 14 19**

C. State Transporter's ID **TV39600**
D. Transporter's Phone **201-589-1600**

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 **The Environmental Quality Co. 49350 N. I-95 Belleville, MI 48111** 10. US EPA ID Number **MI 0 4 8 0 19 10 16 3 3**

G. State Facility's ID
H. Facility's Phone **313-697-7830**

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

12 Containers No.	13 Total Quantity	14 Unit Mt. Vol	I. Waste No.									
			No.	N/H								
a	X	RQ, Hazardous Waste Solid, N.O.S.; 9, NA3077, PG III (lead)	0	1	D	T	43120	D	0	0	8	H
b												
c												
d												

J. Additional Descriptions for Materials Listed Above
11a) lead contaminated soil (ERG #31)
Approval #: 121994MG

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

15. Special Handling Instructions and Additional Information
Emergency Contact: Tom Joyner, OHM, 800-562-2953

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Printed/Typed Name **Robert Brown** Signature *Robert Brown* Date **01/10/95**

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name **Gene McGehee** Signature *Gene McGehee* Date **01/09/95**

18. Transporter 2 Acknowledgement or 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 _____

GENERATOR'S CERTIFICATION
 STATE 97376
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MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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Form Approved OMB No. 2050-0039 Expires 9-30-94

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. **CT 41170022020** Manifest Document No. **CE245** 2. Page 1 of 1 Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
Naval Submarine Base New London
Rt. 12 & Crystal Lake Rd.
Groton, CT 06349

A. State Manifest Document Number
MI 3664654

B. State Generator's ID

4. Generator's Phone (203) 449-5164

C. State Transporter's ID **MS11037L**

5. Transporter 1 Company Name
Merola Enterprises, Inc.

D. Transporter's Phone **01-589-1600**

7. Transporter 2 Company Name

E. State Transporter's ID

9. Designated Facility Name and Site Address
The Environmental Quality Co.
49350 N. I-95
Belleville, MI 48111

F. Transporter's Phone

G. State Facility's ID

H. Facility's Phone **313-697-7830**

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

12. Containers No. Type 13. Total Quantity 14. Unit Wt. Vol. I. Waste No. N/H

a. X RQ, Hazardous Waste Solid, N.O.S.; 9, NA3077, PG III (lead)

0	0	1	0	0	0	4	0	4	8	0	0	0	8	H
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b.
c.
d.

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J. Additional Descriptions for Materials Listed Above
11a) lead contaminated soil (ERG #31)
Approval #: 121994MG

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

15. Special Handling Instructions and Additional Information

Emergency Contact: Tom Joyner, OHM, 800-562-2953

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Printed/Typed Name **DAVID KASSEL** Signature *[Signature]* Date **01/09/95**

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name **JAMES TUTTLE** Signature *[Signature]* Date **01/09/95**

18. Transporter 2 Acknowledgement or Receipt of Materials
Printed/Typed Name _____ Signature _____ Date **3/1**

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 FORMS 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 1-800-424-6343

READ INSTRUCTIONS ON BACK OF MANIFEST



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 Failure to file is punishable under section 299 548 MCL or Section 10 of Act 136, PA 1969

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Form Approved. OMB No. 2050-0039 Expires 9-30-94

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. **CT 4170022020** Manifest Document No. **KE297** 2. Page 1 of 1 Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
 Naval Submarine Base New London
 Rt. 12 & Crystal Lake Rd.
 Groton, CT 06349

A. State Manifest Document Number
MI 3664655
 B. State Generator's ID

4. Generator's Phone (203) **449-5164**

C. State Transporter's ID **NTT132ZL**

5. Transporter 1 Company Name
Merola Enterprises, Inc.

D. Transporter's Phone **201-589-1600**

7. Transporter 2 Company Name

E. State Transporter's ID

9. Designated Facility Name and Site Address
 The Environmental Quality Co.
 49350 N. I-95
 Belleville, MI 48111

F. Transporter's Phone
 G. State Facility's ID
 H. Facility's Phone **313-697-7830**

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

12. Containers No. Type 13. Total Quantity 14. Unit Mt. Vol. I. Waste No. N/H

a. **X** RQ, Hazardous Waste Solid, N.O.S.; 9, NA3077, PG III (lead)

0	0	1	D	T	5	2	5	0	0	0	8	H
---	---	---	---	---	---	---	---	---	---	---	---	---

b.
 c.
 d.

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J. Additional Descriptions for Materials Listed Above
 11a) lead contaminated soil (ERG #31)
 Approval #: 121994MG

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

15. Special Handling Instructions and Additional Information
 Emergency Contact: Tom Joyner, OHM, 800-562-2953

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Printed/Typed Name: **Germer E. Edmondston** Signature: *Germer E. Edmondston* Date: **01/11/95**

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name: **Gordon H. Whitt** Signature: *Gordon H. Whitt* Date: **01/11/95**

18. Transporter 2 Acknowledgement or 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 1-800-282-4708 OR OUT OF STATE AT 517-373-7680 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-9224

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MICHIGAN DEPARTMENT
OF NATURAL RESOURCES

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UNIFORM HAZARDOUS WASTE MANIFEST		1 Generator's US EPA ID No. <u>CT 4170022020</u>		Manifest Document No. <u>00298</u>		2 Page 1 of 1		Information in the shaded areas is not required by Federal law					
3. Generator's Name and Mailing Address <u>Naval Submarine Base New London Rt. 12 & Crystal Lake Rd. Groton, CT 06349</u>						A. State Manifest Document Number <u>MI 3664656</u>							
4. Generator's Phone (203) <u>449-5164</u>						B. State Generator's ID							
5. Transporter 1 Company Name <u>Merola Enterprises, Inc.</u>				6. US EPA ID Number <u>NIJD19186609049</u>		C. State Transporter's ID <u>NJTAF8967</u>				D. Transporter's Phone <u>201-589-1600</u>			
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 <u>The Environmental Quality Co. 49350 N. I-95 Belleville, MI 48111</u>						10. US EPA ID Number <u>MIID0481090633</u>		G. State Facility's ID					
						H. Facility's Phone <u>313-697-7830</u>							
11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM ID NUMBER)						12 Containers No. Type		13 Total Quantity		14 Unit Wt./Vol		I. Waste No. N/H	
a. <u>X</u> RQ, Hazardous Waste Solid, N.O.S.; 9, NA3077, PG III (lead)						<u>0</u> <u>0</u> <u>1</u> <u>D</u> <u>T</u>		<u>46065</u>		<u>P</u> <u>D</u> <u>0</u> <u>0</u> <u>8</u>		<u>H</u>	
b.													
c.													
d.													
J. Additional Descriptions for Materials Listed Above 11a) lead contaminated soil (ERG #31) Approval #: 121994MG						K. Handling Codes for Wastes Listed Above				a/ /		b/ /	
										c/ /		d/ /	
15. Special Handling Instructions and Additional Information <u>Emergency Contact: Tom Joyner, OHM, 800-562-2953</u>													
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Printed/Typed Name <u>Thomas E. Edmondston</u>						Signature <u>Thomas E. Edmondston</u>				Date <u>9/11/95</u>			
17. Transporter 1 Acknowledgement of Receipt of Materials													
Printed/Typed Name <u>GERALD ST. JOHN</u>						Signature <u>Gerald St. John</u>				Date <u>09/11/95</u>			
18. Transporter 2 Acknowledgement or 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 (MILES) AT 1-800-424-6224



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MICHIGAN DEPARTMENT OF NATURAL RESOURCES AND THE NATIONAL RESPONSE CENTER FOR HAZARDOUS WASTE AT 517-377-7600 AND THE NATIONAL RESPONSE CENTER FOR HAZARDOUS WASTE AT 1-800-424-9300

UNIFORM HAZARDOUS WASTE MANIFEST		1 Generator's US EPA ID No CT 4 1 7 0 0 2 2 0 2 1 0		Manifest Document No CE 279		2 Page 1 of 1		Information in the shaded areas is not required by Federal law							
3 Generator's Name and Mailing Address Naval Submarine Base New London Rt. 12 & Crystal Lake Rd. Groton, CT 06349						A. State Manifest Document Number MI 3664657		B. State Generator's ID							
4 Generator's Phone (203) 449-5164		6 US EPA ID Number NJ 0 9 8 6 6 0 9 9 4 9		C. State Transporter's ID T 893VM		D. Transporter's Phone 201-589-1600		E. State Transporter's ID							
5 Transporter 1 Company Name Merola Enterprises, Inc.		7 Transporter 2 Company Name		8 US EPA ID Number		F. Transporter's Phone		G. State Facility's ID							
9 Designated Facility Name and Site Address The Environmental Quality Co. 49350 N. I-95 Belleville, MI 48111						10 US EPA ID Number MI 0 4 8 0 9 0 6 3 3		H. Facility's Phone 313-697-7830							
11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM ID NUMBER).						12 Containers		13 Total Quantity		14 Unit Mt./Vol		I. Waste No. N/H			
a X RQ, Hazardous Waste Solid, N.O.S.; 9, NA3077, PG III (lead)						0 0 1 D I T		4 5 9 2 0		P D P P B H					
b															
c															
d															
J. Additional Descriptions for Materials Listed Above 11a) lead contaminated soil (ERG #31) Approval #: 121994MG						K. Handling Codes for Wastes Listed Above		a/ /		b/ /		c/ /		d/ /	
15 Special Handling Instructions and Additional Information Emergency Contact: Tom Joyner, OHM, 800-562-2953															
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Printed/Typed Name Carmer E. Edmore						Signature <i>Carmer E. Edmore</i>				Date 01/10/95					
17. Transporter 1 Acknowledgement of Receipt of Materials						Printed/Typed Name Robert FRYE				Signature <i>Robert Frye</i>				Date 01/10/95	
18. Transporter 2 Acknowledgement or 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	

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UNIFORM HAZARDOUS WASTE MANIFEST		1 Generator's US EPA ID No. CT 4 1 7 0 0 2 2 0 2 0		Manifest Document No. MI 2 1 5 1 1		2 Page 1 of 1		Information in the shaded areas is not required by Federal law											
3 Generator's Name and Mailing Address ENV DEPT Box 39 C2C 16A				Naval Submarine Base New London Rt. 12 & Crystal Lake Rd. Groton, CT 06349		A. State Manifest Document Number MI 3664659		B. State Generator's ID											
4 Generator's Phone (203) 449-5164		5. Transporter 1 Company Name Merola Enterprises, Inc.		6. US EPA ID Number MI 1 1 1 9 1 8 1 6 1 0 1 9 1 4		C. State Transporter's ID MI 1 1 3 7 2 2		D. Transporter's Phone 201-589-1600											
7. Transporter 2 Company Name		8. US EPA ID Number		E. State Transporter's ID		F. Transporter's Phone		G. State Facility's ID											
9 Designated Facility Name and Site Address The Environmental Quality Co. 49350 N. I-95 Belleville, MI 48111				10. US EPA ID Number MI 0 0 0 0 7 2 4 8 2 1		H. Facility's Phone 313-697-7830													
11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM ID NUMBER)						12. Containers		13. Total Quantity		14. Unit		1. Waste No.		N/H					
a. X RQ, Hazardous Waste Solid, N.O.S.; 9, NA3077, PG III (lead)						No. Type		50200		p		b b b B		H					
b.																			
c.																			
d.																			
J. Additional Descriptions for Materials Listed Above 11a) lead contaminated soil (ERG #31) Approval #: 121994MG						K. Handling Codes for Wastes Listed Above						a/ /		b/ /		c/ /		d/ /	
15. Special Handling Instructions and Additional Information Emergency Contact: Tom Joyner, OHM, 800-562-2953																			
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Printed/Typed Name Robert Brown						Signature Robert Brown						Date Month Day Year 01/11/1995							
17 Transporter 1 Acknowledgement of Receipt of Materials						Printed/Typed Name Charlie Ewins						Signature Charlie Ewins						Date Month Day Year 01/11/1995	
18 Transporter 2 Acknowledgement or 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							

CAN BE USED TO OBTAIN INFORMATION AT 1-800-487-6860 AND THE NATURAL RESPONSE
 EMERGENCY
 24 HOURS PER DAY
 MICHIGAN DEPARTMENT OF NATURAL RESOURCES
 FACILITY



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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. **CT 4170022020210** Manifest Document No. **415252** 2. Page 1 of 1 Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address: **Naval Submarine Base New London Env Dept Box 39 Rt. 12 & Crystal Lake Rd. Groton, CT 06349**

A. State Manifest Document Number: **MI 3664660**

4. Generator's Phone: **(203) 449-5164**

B. State Generator's ID

5. Transporter 1 Company Name: **Merola Enterprises, Inc.** 6. US EPA ID Number: **NJID98660191949**

C. State Transporter's ID: **NJ T1032L**
D. Transporter's Phone: **201-589-1600**

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: **The Environmental Quality Co. 49350 N. I-95 Belleville, MI 48111** 10. US EPA ID Number: **ENVUTECH MANAGEMENT MID 00072483144 MID 048090633**

G. State Facility's ID
H. Facility's Phone: **313-697-7830**

11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM ID NUMBER)		12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol	I. Waste No.		N/H
a.	X RQ, Hazardous Waste Solid, N.O.S.; 9, NA3077, PG III (lead)	0101	DIT	41375	P	D	008	H
b.								
c.								
d.								

J. Additional Descriptions for Materials Listed Above
11a) **lead contaminated soil (ERG #31)**
Approval #: 121994MG

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

15. Special Handling Instructions and Additional Information
Emergency Contact: Tom Joyner, OHM, 800-562-2953

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Printed/Typed Name: Robert Brown	Signature: <i>Robert Brown</i>	Date: 01/11/95
17. Transporter 1 Acknowledgement of Receipt of Materials	Printed/Typed Name: JAMES TUTTLE	Signature: <i>James Tuttle</i>
18. Transporter 2 Acknowledgement or Receipt of Materials	Printed/Typed Name:	Signature:

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 1-800-424-9293



MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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ATT. DIS. REJ. PR.

Required under authority of Act 64 PA 1979 as amended and Act 136 PA 1969

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Form Approved OMB No. 2050-0039 Expires 9-30-94

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. **CT 4 1 7 0 0 2 2 0 2 0** Manifest Document No. **615255**

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

3. Generator's Name and Mailing Address **Naval Submarine Base New London Rt. 12 & Crystal Lake Rd. Groton, CT 06349**

A. State Manifest Document Number **MI 3664661**

4. Generator's Phone (203) **449-5164**

B. State Generator's ID

5. Transporter 1 Company Name **Merola Enterprises, Inc.** 6. US EPA ID Number **NJ 0 9 8 6 6 0 9 9 4 9**

C. State Transporter's ID

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

D. Transporter's Phone **201-589-1600**

E. State Transporter's ID **NJ TAE 5197**

9. Designated Facility Name and Site Address **The Environmental Quality Co. 49350 N. I-95 Belleville, MI 48111** 10. US EPA ID Number **MI 0 0 0 7 2 4 8 3 1**

F. Transporter's Phone

G. State Facility's ID

H. Facility's Phone **313-697-7830**

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

12 Containers	13. Total Quantity	14 Unit Mt./Vol	I. Waste No.				
				N/H			
a. X	RQ, Hazardous Waste Solid, N.O.S.; 9, NA3077, PG III (lead)	01 01 1	DI T	468.00	P	0 0 0 8	H
b.							
c.							

J. Additional Descriptions for Materials Listed Above
 11a) lead contaminated soil (ERG #31)
 Approval #: 121994MG

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

15. Special Handling Instructions and Additional Information
Emergency Contact: Tom Joyner, OHM, 800-562-2953

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 **Robert Riccio** Signature **Robert Riccio** Date **01/11/95**

17. Transporter 1 Acknowledgement or Receipt of Materials
 Printed/Typed Name **Edward McCall** Signature **Edward McCall** Date **01/11/95**

18. Transporter 2 Acknowledgement or 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 BY TELEPHONE AT 1-800-424-8802 24 HOURS PER DAY



MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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

1979 as amended and Act 136, PA 1969
Failure to file is punishable under section 299.546 MCL or Section 10 of Act 136, PA 1969.

Please print or type

Form Approved. OMB No. 2050-0039 Expires 9-30-94

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. **CT 4 1 7 0 0 2 2 0 2 1 0** Manifest Document No. **CEZSA**

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

3. Generator's Name and Mailing Address: **Naval Submarine Base New London Rt. 12 & Crystal Lake Rd. Groton, CT 06349**

A. State Manifest Document Number: **MI 3664664**
B. State Generator's ID

4. Generator's Phone: **(203) 449-5164**

5. Transporter 1 Company Name: **Merola Enterprises, Inc.** 6. US EPA ID Number: **NIJD 9 8 6 6 0 9 9 4 9**

C. State Transporter's ID: **NJTB06A**
D. Transporter's Phone: **201-589-1600**

7. Transporter 2 Company Name

E. State Transporter's ID

9. Designated Facility Name and Site Address: **The Environmental Quality Co. 49350 N. I-95 Belleville, MI 48111**

F. Transporter's Phone

10. US EPA ID Number: **MI 1 0 0 0 2 2 4 8 3 3**

G. State Facility's ID
H. Facility's Phone: **313-697-7830**

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

a.	b.	c.	d.
X			

12. Containers, 13. Total Quantity, 14. Unit, 1. Waste No., NIH

No.	Type	Total Quantity	Unit	Waste No.	NIH
0101	DIT	44600	P	0008	H

J. Additional Descriptions for Materials Listed Above
11a) lead contaminated soil (ERG #31)
Approval #: 121994MG

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

15. Special Handling Instructions and Additional Information
Emergency Contact: Tom Joyner, OHM, 800-562-2953

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: **DAVID KAROL** Signature: *[Signature]* Date: **01/11/95**

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Signature: Date:

18. Transporter 2 Acknowledgement or 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 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 1-800-424-2042

APPENDIX B

COMPLETE ANALYTICAL RESULTS



OHM Remediation
Services Corp.

A Subsidiary of OHM Corporation

ANALYTICAL DIVISION

Laboratory Analysis Report

Client: OHM Remediation Services Corp.
Eastern Region (Hopkinton, MA)

Attn: Dan Douthwright
Ron Kenyon

Project: 16600N - NEESA; Groton SOB Base, Groton, CT

Sample(s): BC, NC, SC, EC, WC, DUPC, FB and ER

Sample Type(s): Liquid and Solid

Analysis Performed: Conventional, Metal and RCRA TCLP Leachate Parameter

Date Sample Received: January 12, 1995

Date Order Received: January 12, 1995

Joblink(s): 617403

This report is "PROPRIETARY AND CONFIDENTIAL" and delivered to, and intended for the exclusive use of the above named client only. OHM Remediation Services Corp., Analytical Division, assumes no responsibility or liability for the reliance hereon or use hereof by anyone other than the above named client.

Reviewed and Approved by:


Thomas E. Gran, Ph.D., Vice President

Date: January 20, 1995

PROJECT NARRATIVE

The following items relate to the samples and analytical data contained in this report.

- o All solid sample results are reported on a "dry weight" basis.
- o Note any and all comments at the bottom of the tables in Appendix B and/or Appendix C.
- o Samples will be retained for a maximum of thirty (30) days after completion of the analysis, samples will be held for a longer period of time, if appropriate arrangements are made in advance. A nominal disposal charge of \$5.00/sample will be imposed for unreturned samples.

APPENDIX A
DATA SUMMARY REPORT

DATA SUMMARY REPORT

DATE: 01/18/95

PAGE: 1

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID:	BC	NC	SC	EC	WC	DUPC
ASC Sample Number:	JN7168	JN7169	JN7170	JN7171	JN7172	JN7173
Sample Date:	950111	950111	950111	950111	950111	950111
Facility Code:	016600N	016600N	016600N	016600N	016600N	016600N

Parameters Units

Conventional Data (CV10)

Solids, Total	%	79.8	83.8	80.9	83.3	84.2	84.8
---------------	---	------	------	------	------	------	------

Special Requested Total Metals Analysis, (ME40)

Lead	mg/kg	390	6.13	432	147	22.8	21.8
------	-------	-----	------	-----	-----	------	------

Special Requested Leachate Metals Analysis, (ME42)

Lead	mg/L	3.32	.018	1.40	.375	1.45	.044
------	------	------	------	------	------	------	------

DATA SUMMARY REPORT

DATE: 01/13/95

PAGE: 1

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID:	FB	ER
ASC Sample Number:	JN7174	JN7175
Sample Date:	950111	950111
Facility Code:	016600N	016600N

Parameters	Units
------------	-------

Special Requested Total Metals Analysis, (ME40)

Lead	mg/L	<.020	<.020
------	------	-------	-------

APPENDIX B
QUANTITATIVE RESULTS

CONVENTIONAL DATA (CV10)

Company Name Facility Sample Point ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION 016600N WC JN7172

Compounds	Sample Results	Detection Limits	Blank Results	Batch Number
Solids, Total %	84.2	.100	-	

SPECIAL REQUESTED TOTAL METALS ANALYSIS, (ME40)

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016600N

NC

JN7169

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Lead	6.13	.089	ND	N2M5850

SPECIAL REQUESTED TOTAL METALS ANALYSIS, (ME40)

Company Name Facility Sample Point ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION 016600N WC JN7172

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Lead	22.8	.092	ND	N2M5850

SPECIAL REQUESTED TOTAL METALS ANALYSIS, (ME40)

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016600N

DUPC

JN7173

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Lead	21.8	.088	ND	N2M5850

SPECIAL REQUESTED TOTAL METALS ANALYSIS, (ME40)

Company Name Facility Sample Point ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION 016600N FB JN7174

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Lead	ND	.020	ND	N1M5849

SPECIAL REQUESTED TOTAL METALS ANALYSIS, (ME40)

Company Name Facility Sample Point ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION 016600N ER JN7175

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Lead	ND	.020	ND	N1M5849

SPECIAL REQUESTED LEACHATE METALS ANALYSIS, (ME42)

Company Name Facility Sample Point ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION 016600N WC JN7172

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Lead	1.45	.003	.004	N7M5855

APPENDIX C
QUALITY ASSURANCE DATA

SUMMARY OF ANALYTICAL METHODOLOGY

Parameter	Reference	Method
Conventionals		
Solids, Total (solid)	CAWW	160.3
Metals		
Total Metals (Lead)	SW-846	6010
RCRA TCLP		
Leachate Preparation	SW-846	1311
Metals (Lead)	SW-846	6010

METHODOLOGY REFERENCES

- ASTM** *American Society for Testing and Materials*, 1985 edition.
- CAWW** *Methods for Chemical Analysis of Water and Wastes*, April 1979 and Updated #1 March 1983.
- CLP** *USEPA Contract Laboratory Program*, Document #OLMO1.0, updates December 1990 #OLMO1.1 and February 1991 #OLMO1.1.1.
- EPA-500** *USEPA Methods for the Determination of Organic Compounds in Drinking Water*, EPA-600/4-88/039 December 1988.
- EPA-600** *USEPA Test Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater*, EPA-600/4-82-057 July 1982.
- NIOSH** *National Institute for Occupational Safety and Health*, 3rd edition, 1984.
- SMEWW** *Standard Methods for the Examination of Water and Wastewater*, 17th edition, 1989.
- STOA** *Spot Tests In Organic Analysis*, 7th edition, 1966.
- SW-846** *Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods*, 3rd edition, September 1986 and Update #1 July 1992.
- (1) This method was modified to incorporate the use of Boron Trifluoride (BF₃) as the derivatizing reagent according to Method 6640 in *SMEWW*, 17th edition, 1989.
- Title 22** *Waste Extraction Test*, Title 22, Section 66261.126 Appendix 2 of the California Administrative Code, May 1991.

Laboratory Certifications

State	Agency	Certification #
Alabama	ADEM	40830
California	CADOH	1178
Colorado	CODOH	OH113
Delaware	DEHSS	OH113
Kansas	KSDHE	E-202 & E-1173
Louisiana	LADOHH	92-10
Maryland	MDDHMH	210
Massachusetts	MADEP	M-OH113
New Jersey	NJDEPE	74603
New York	NYDOH	10712
North Carolina	NCDEM	392
Ohio	OHEPA	OH113
Oklahoma	OKDEQ	9216
Pennsylvania	PADER	68-450
South Carolina	SCDEHNR	92002
Tennessee	TNDOH/TNDEC	2978
Virginia	VADGS	00011
Washington	WADOE	C154
Wisconsin	WIDNR	999037160

Validated by:

- o US Army Corps of Engineers Chemical Analysis in Various Matrices

Approvals:

- o Chemical Waste Management Waste Characterization Analysis
- o EnviroSAFE Waste Characterization Analysis
- o USDA Permit for Importing Soils
- o Florida DEP Quality Assurance Plan #930034G
- o Naval Facilities Engineering Service Center Chemical Analysis in Various Matrices

REPORT KEY

mg/kg	= milligram per kilogram (ppm)
Mg/m ³	= milligram per cubic meter
ug/kg	= microgram per kilogram (ppb)
mg/L	= milligram per liter (ppm)
ug/L	= microgram per liter (ppb)
mg/W	= milligram per wipe
ug/W	= microgram per wipe
mg/SMP	= milligram per sample
ug/SMP	= microgram per sample (Tedlar Bag)
ug/smp	= microgram per sample
um/cm	= microMho per centimeter
pCi/l	= picocurie per liter
gm/cc	= grams per cubic centimeter
ppm	= parts per million
ppb	= parts per billion
ND	= Not detected at or above stated detection limit
<	= less than
>	= greater than
%	= percent
BTU/lb	= British Thermal Units per pound
Deg. C	= Degrees Celsius
n/a	= not applicable
Unk	= unknown
std	= result is relative to standard pH units
CV	= Conventional
IR	= Infrared Spectrophotometric
GC	= Gas Chromatograph Instrument
GC/MS	= Gas Chromatography/Mass Spectrometer Instrument
GRO	= Gasoline Range Organics
DRO	= Diesel Range Organics
PCB	= Polychlorinated Biphenyls (PCBs)
EP TOX	= Extraction Procedure Toxicity
TCLP	= Toxicity Characteristic Leaching Procedure
RCRA	= Resource Conservation and Recovery Act
SOW	= Statement of Work

QUALITY ASSURANCE DATA

SPECIAL REQUESTED TOTAL METALS ANALYSIS, (ME40)

Compounds	Blank Results mg/kg	Blank Spike Recov	Unspiked Sample Results mg/kg	Matrix Spike Recov	Relative Percent Diff	Batch Number
Lead	ND	91	18.5	84	8	N2M5850

QUALITY ASSURANCE DATA

SPECIAL REQUESTED TOTAL METALS ANALYSIS, (ME40)

Compounds	Blank Results mg/L	Blank Spike Recov	Unspiked Sample Results mg/L	Matrix Spike Recov	Relative Percent Diff	Batch Number
Lead	ND	96	ND	98	1	N1M5849

QUALITY ASSURANCE DATA

SPECIAL REQUESTED LEACHATE METALS ANALYSIS, (ME42)

Compounds	Blank Results mg/L	Blank Spike Recov	Unspiked Sample Results mg/L	Matrix Spike Recov	Relative Percent Diff	Batch Number
Lead	.004	87	.044	91	1	N7M5855

APPENDIX D
CHAIN-OF-CUSTODY RECORD(S)

