



STATE OF CONNECTICUT
DEPARTMENT OF ENVIRONMENTAL PROTECTION



February 3, 1993

Lydia Ogden Askew
Community Involvement Liaison
ATSDR (E32)
1600 Clifton Road, NE
Atlanta, Georgia 30333

Re: Public Health Assessment-Public Comment Release for the Naval Submarine Base New London (NSBNL), Groton/Ledyard, Connecticut CERCLIS No. CTD980906515, dated December 21, 1992

Dear Ms. Askew:

Staff from the Permitting, Enforcement and Remediation Division of the Connecticut Department of Environmental Protection (DEP) have reviewed the above-referenced public health assessment (PHA). This assessment was prepared by the Agency for Toxic Substances and Disease Registry (ATSDR) for public comment pursuant to the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). It is noted that all comments received during the public comment period will be included in the appendix of the final release of the PHA, accompanied by a written response.

The comments listed below frequently reference the "Phase I Remedial Investigation Naval Submarine Base-New London Groton, Connecticut" (Phase I RI), dated August 1992. The Phase I RI contains the results from the Phase I RI conducted at the NSBNL. The Phase I RI was prepared for the NSBNL facility by Atlantic Environmental Services, Inc., on behalf of the Northern Division Naval Facilities Engineering Command in Lester, Pennsylvania.

GENERAL COMMENTS:

1. It should be noted that all sampling results for boron obtained from the surface and ground water during the Phase I RI may be inaccurate due to lab error. This also pertains to boron results from the residential wells analyzed by the lab for the following reasons (see enclosed memo): 1) the validity of the three rounds of sampling data from the residential wells was found by the lab to be suspect, and 2) the analytical results from supplemental sampling conducted by the Navy and DEP in August/September 1992 detected boron well below levels detected during the initial three sampling rounds (see attached DEP sampling results).

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SPECIFIC COMMENTS:

2. Page 6, **Site Description and History** - The last sentence in this section noted that no remediation is currently planned for the seven Step I sites evaluated under the Installation Restoration Program (IRP). It should be noted that a feasibility study (FS) will be conducted for each Step I site that is recommended for Step II remedial investigations. Each FS will evaluate remedial alternatives best suited to each Step II site.
3. Page 8, **Torpedo Shops** - It is noted that several residences with private wells are located about 500 feet northwest of the Torpedo Shops site. It appears that the Navy's property boundary to the north of this site is approximately twice the indicated distance. According to Figure 4-25 (page 4-111 of the Phase I RI), the nearest residential wells are located over one half mile to the northeast and northwest of the Torpedo Shops site.
4. Page 22, **Environmental Contamination and Other Hazards** - Table 1 through 4 provides an overview of contamination found within the soils, groundwater, surface water and other environmental media for all sites located at NSBNL. Based on a review of the Phase I RI, it is recommended that the following tables be revised as follow:

Table 1: Overview of Soil Contamination - This table should be revised to indicate that subsurface soil contamination was detected at the Over Bank Disposal Area (OBDA) site. Table 4-28 (page 4-90 of the Phase I RI) notes the presence of volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs) and pesticides in the subsurface soil at monitoring well 3MW12S. Figure 4-23 (page 4-93 of the Phase I RI) depicts this sampling point within the boundaries of the OBDA site.

Subsurface soil contamination was also detected at the Spent Acid Storage and Disposal Area site. Table 4-17 (page 4-52 of the Phase I RI) lists the subsurface analytical results at this site. Analytical results at the 4-8 foot level for test boring 15TB3 show that VOCs and noncarcinogenic PAHs were detected. It is likely that the other test boring locations would have been found to contain VOCs, PAHs and pesticides if they had been analyzed for the same constituents. In addition, based on the elevated concentrations of lead detected in the subsurface soils from the Toxicity Characteristic Leachate Procedure (TCLP), any excavated soil from this site would be classified as a hazardous waste under the Resource Conservation and Recovery Act (RCRA).

Table 2: Overview of Groundwater Contamination - This table should be revised to indicate that groundwater from overburden well 3MW12S and bedrock well 3MW12D was analyzed within the OBDA and that the analytical results came up non-detect (see Table 4-34 on page 4-106 of the Phase I RI). In addition, overburden groundwater at the Defense Reutilization and Marketing Office (DRMO) had detectable levels of 1,1-dichloroethane, 1,2-dichloroethene and trichloroethene (TCE) and should be so noted in the table. TCE levels were slightly above federal and state drinking water standards at monitoring well 6MW4S (see table 4-50 on page 4-146 of the Phase I RI).

Table 3: Overview of Surface water and Sediment Contamination - This table should be revised to note that sediment contamination was detected at the OBDA site. Table 4-30 (page 4-96 of the Phase I RI) lists the analytical results for the OBDA sediment locations as depicted on Figure 4-23 (see page 4-93). Table 3 should also be revised to note that sediment contamination (low levels of PAHs) was detected at the Torpedo Shops site. Sediment sample location 7SD1 is located at the Torpedo Shops site, but was included in discussions of the Area A Downstream/OBDA site (see Figure 4-22 on page 4-88 and Section 4.11.3.2 on page 4-92 of the Phase I RI).

5. Page 33, **Over Bank Disposal Area** - The textual description of sampling conducted at this site is actually describing the investigation carried out at the Rubble Fill at Bunker A-86 site. Sediments, not soils, were the primary environmental media sampled at the OBDA site (see Table 4-30 on page 4-96 and Figure 4-23 on page 4-93 of the Phase I RI).
6. Page 46, **Rock Lake** - It is incorrectly noted that the surface water sampled at this site was part of the Phase I RI. There is no mention that this lake was sampled during the Phase I RI.
7. Page 52, **Private Well Pathway** - This section should be revised due to issues raised regarding the validity of boron sampling results.

8. Page 55, **Surface Water and Sediments Pathways** - The last paragraph noted that sediments from Kohr's pond were dredged in 1988. It is the State's understanding based on discussions with the Navy that the sediments from this pond were excavated in December 1991. The sediments accumulated in the pond from runoff associated with road construction activities. Sediments from the pond were sampled and found to contain trace levels of pesticides prior to dredging. The Navy re-sampled sediments from this pond in August 1992 for pesticides and PCBs. Analytical results from this sampling event were non-detect. This information should be verified by the Navy and so noted within the PHA.
9. Page 56, **Potential Exposure Pathways** - The third paragraph notes that subsurface soil is contaminated at the Torpedo Shops, Goss Cove Landfill, Area A Landfill, DRMO and the Lower Subbase. The Spent Acid Storage and Disposal Area should be included within this list. The soils have been found to be contaminated with lead and have low pH values apparently as a result of the historic release of waste battery acid. As noted in Comment #4, any excavated soil from this site would be classified as a hazardous waste under the Resource Conservation and Recovery Act (RCRA).
10. Page 57, **Surface Water and Sediments Pathways** - The date that dredging occurred at the Kohr's Pond may be incorrect. See Comment #8.
11. Page 61, **Boron** - The second paragraph should be revised to reflect the most recent information obtained on the analytical results of boron as noted in Comment #1 (see attached DEP analytical results).
12. Page 62, **Cadmium** - The second paragraph noted that cadmium was detected during the first sampling round in one of the 14 residential wells at a maximum concentration of 26 ppb. Cadmium was not detected during the second and third round of sampling at this home. It should be noted that DEP sampled this home and several others in August 1992. Cadmium results were below the laboratory quantification limit of 0.003 mg/L (see attached DEP analytical results).

13. Page 65, Lead - It is noted that lead was detected at a maximum concentration of 223 ppm in the sediments at the Area A Downstream Watercourses site. It is further stated that lead contaminated sediments at this site pose a public health concern for young children. Table 4-31 (page 4-99 of the Phase I RI) indicated that sample location 3SD2 (located within the OBDA) was the only sample containing lead at 223 ppm. Sample location 3SD1 and 3SD4 also contained elevated lead levels at 87.7 and 189 ppm, respectively. It should be stated that the majority of elevated lead levels were located within the OBDA site. Most lead concentrations downstream from the OBDA were below the indicated Comparison Value for sediments. Only sediment samples at 2DSD4 and 2DSD7 contained lead at 55.3 and 64.2 ppm, respectively. It appears that the OBDA is a relatively isolated area located at the eastern end of the Area A Downstream watercourse site (see Figure 4-24 on page 4-101 of the Phase I RI). In addition, it is the State's understanding that the Navy has installed a fence to prevent access to this area from the North Lake area. With this in mind, it is unclear if installation of the fence and the primary location of elevated lead concentrations within the OBDA site was considered in the conclusion reached by ATSDR regarding the public health concern for young children playing within the Area A Downstream Watercourses site.

14. Page 73, Health Outcome Data Evaluation - It is noted that ATSDR "...has identified a completed exposure pathway for off-base residents who drink "contaminated" (reader quotation) well water." It appears that this statement is based on the fact that cadmium was found in one well at 26 ppb, lead detected in two wells at 32 and 38 ppb and sodium detected in several wells up to a maximum concentration of 34600 ppb. Describing the drinking water as contaminated implies that groundwater in this area is not potable and above state drinking water standards. The statement should be revised to reflect the following information: 1) except for the well where cadmium was detected above drinking water standards (DWSs) during the first sampling round, no sampled wells have exceeded any state DWS and/or Action Level for inorganics or organics, 2) subsequent sampling rounds of the residential well where cadmium was detected have consistently shown results well below the state DWS for cadmium (it is noted in the PHA that the lab blanks for this sampling round contained trace levels of cadmium suggesting a quality control problem), and 3) residents on public water supplies must be notified when sodium levels exceed 28,000 ppb and is mainly applicable to persons on salt-restricted diets (there are no standards in Connecticut for private water supplies, although the State notifies residents when sodium levels exceed 28,000 ppb).

15. Page 76, **Second Bullet** - It was noted that "...boron was the only contaminant identified in the Thames River." This statement should be revised or deleted based on the possibility that all boron sampling data obtained during the Phase I RI is questionable due to lab error.
16. Page 81, **Conclusions** - Paragraph #5 should be revised to reflect information contained in Comment #1.
17. Page 83, **Recommendations** - Recommendation #1 suggests that access be restricted to the Area A Downstream Watercourses. This statement should be re-examined in light of Comment #13.
18. Page 83, **Recommendations** - Recommendation #2 suggests that the source and extent of groundwater contamination near the off-base private residential drinking water wells be evaluated. It is unclear if this statement refers to the elevated inorganics (sodium and lead) found in some of the residential wells or whether any contamination identified within the Area A site may potential impact wells to the east of Rt 12.
19. Page 83, **Recommendations** - Recommendation #3 and #4 noted that residents should be advised at those homes where elevated lead and sodium were detected in their wells. This was done by the Navy in letters sent out in October 1992 and June 1992, respectively.
20. Page 83, **Recommendations** - Recommendation #7 recommended further environmental sampling of sediments and surface water at the Goss Cove site to determine if potential exposure pathways exist for children. This recommendation will be carried out during the Phase II investigations.
21. Page 93, **Figure 2** - North Lake and Rock Lake should be depicted on this figure due to frequent discussions about sampling these areas.

Subbase Public Health Assessment
February 3, 1993
Page Seven

If you have any questions with the above comments, please call me at (203) 566-5486.

Sincerely,



Paul E. Jameson
Senior Environmental Analyst
Permitting, Enforcement and
Remediation Division
Bureau of Water Management

cc: Andrew Miniuks, EPA
Carol Keating, EPA
Deborah Stockdate, Navy
William Mansfield, NSBNL
Jennifer Kertanis, DOHS

MEMORANDUM

TO: TRC Members

FROM: Barry Giroux, P.E., Project Manager
Paul Burgess, P.E., Principal

DATE: November 25, 1992

RE: BORON ANALYSES

As you are aware, the issue of boron concentrations in residential wells will be discussed at the December 2, 1992 TRC meeting.

Atlantic Environmental Services, Inc. (Atlantic), in conjunction with the Navy Northern Division, completed an assessment of the boron laboratory results for the residential wells. This assessment was conducted by Dr. Alan Cornell, Chemist of Atlantic. We have attached the results of this study for your review in advance of the TRC meeting. A representative of NET, Cambridge Division (Atlantic's laboratory subcontractor) will also be in attendance at the TRC meeting to discuss the boron analyses.

RECEIVED
NOV 27 1992

Waste Management Bureau
Site Remediation Division

TECHNICAL MEMORANDUM

TO: Technical Review Committee Members
FROM: Alan Cornell, Ph.D, Principal Scientist
DATE: November 25, 1992
RE: NAVAL SUBMARINE BASE - NEW LONDON, GROTON, CT
GROUND WATER ANALYSES FOR BORON

Concern was raised over the level of boron in the ground water in the vicinity of the New London Naval Submarine Base by results of analyses made on samples from private residential wells. These results were from samples taken from December 1990 to July 1991 as sampling rounds 1 through 3. Results ranged from 0.85 to 2.0 ppm and the overall average was 1.35 ppm. The wells were sampled by Atlantic Environmental Services, Inc. (Atlantic) and analyzed by NET, Cambridge Division (NET).

To further evaluate the boron content in ground water, residential well water samples were collected by the Connecticut Department of Environmental Protection and analyzed by the Connecticut State Health Services Laboratory. An additional set of samples was taken by the Navy and submitted to Laboratory Resources, Inc. for analysis. These samples were taken in August and September of 1992, respectively. The results from both laboratories were quite similar to each other and differed from NET results by at least an order of magnitude, (values ranged from non-detect to 0.08 ppm).

These two laboratory results, in agreement with each other, indicated the need to re-examine the original test series that initially raised concern over contamination of the ground water with boron. Under the direction of the Northern Division, Naval Facilities Engineering Command, Atlantic devised a test to:

- check the accuracy of the laboratory boron analysis
- analyze a sample of well water under controlled conditions
- check NET's boron test results against an independent laboratory

The samples to be analyzed were boron spiked knowns at 5.0 and 0.5 ppm, a sample of residential well water from a single source submitted in triplicate, and a deionized water blank. Each laboratory received alternate samples from the six well water samples that comprised the two sets of triplicates. All samples, including blanks, were submitted as coded unknowns. The results of this test with sample identification and codes are presented in Table 1. Each laboratory reported the boron content to within at least 15 percent of the targeted spiked amount. Significantly, NET boron values for the well water samples were qualified due to suspected

Technical Review Committee
Ground Water Analyses for Boron
November 25, 1992
Page 2

interference. The other participating laboratory, Halliburton NUS, reported all three well samples at <0.05 ppm.

The Halliburton NUS results are in agreement with the boron levels reported by the Connecticut State Health Services Laboratory and Laboratory Resources, Inc. This test confirms that NET results of the three sampling rounds in 1990-1991 were indeed incorrectly high, most likely due to interference. The consistency of NET's results indicates an analysis bias rather than a random error. NET has stated that the interference is due to sulfur and is currently modifying its ICP (inductivity coupled argon plasma spectroscopy) unit to eliminate this problem.

The data as reported by NET and Halliburton NUS are presented in Appendix A.

**TABLE 1
SUMMARY OF BORON TEST RESULTS**

<i>Sample Identification</i>		<i>Laboratory</i>	
Code	Source	NET	Halliburton
GNV	Residential Well	* ≤ 1.7 ppm	---
BZS	Residential Well	---	< 0.05 ppm
HSC	Residential Well	* ≤ 1.7 ppm	---
HAI	Residential Well	---	< 0.05 ppm
APP	Residential Well	* ≤ 1.7 ppm	---
GTJ	Residential Well	---	< 0.05 ppm
HND	Known, 0.5 ppm	0.57 ppm	---
BZV	Known, 0.5 ppm	---	0.46 ppm
CCJ	Known, 5.0 ppm	4.4 ppm	---
ERH	Known, 5.0 ppm	---	4.8 ppm
GBF	Blank	< 0.1 ppm	---
EUV	Blank	---	< 0.05 ppm

* Results to be qualified due to interference.

APPENDIX A

***NET CAMBRIDGE DIVISION
AND
HALLIBURTON NUS DATA***

NET Cambridge Division ANALYTICAL REPORT

Report Date: 11/02/1992

Report To: Atlantic Env. (NAVY)

NET Job No: 92.34395

Project: Resampling for Boron Only

Date Rec'd: 10/21/1992

Sample ID	NET ID	Result	Units	Analysis Date	Analyst

Aqueous Digestion	EPA200 AQ	EPA 200 mod			
GNW	68429	10/23/1992	date	10/23/1992	puh
HSC	68430	10/23/1992	date	10/23/1992	puh
APP	68431	10/23/1992	date	10/23/1992	puh
HND	68432	10/23/1992	date	10/23/1992	puh
CCJ	68433	10/23/1992	date	10/23/1992	puh
GBF	68434	10/23/1992	date	10/23/1992	puh

Boron (B)	200 ICP AQ	EPA 200 ICP, 200.7			
GNW	68429	<=1.7"	mg/L	10/29/1992	ecw
HSC	68430	<=1.7"	mg/L	10/29/1992	ecw
APP	68431	<=1.7"	mg/L	10/29/1992	ecw
HND	68432	0.57	mg/L	10/29/1992	ecw
CCJ	68433	4.4	mg/L	10/29/1992	ecw
GBF	68434	<0.1	mg/L	10/29/1992	ecw

- * An exact value is not available at this time. Sulfur interferes with Boron in this test. In the absence of Sulfur an exact Boron value is available. Where both Sulfur and Boron are present, the exact Boron value is uncertain. NET is having the ICP instrument modified to analyze Boron without Sulfur interference. These samples will be reanalyzed after that is complete.



October 29, 1992
 Report No.: 00011424
 Section A Page 1

LABORATORY ANALYSIS REPORT

CLIENT NAME: ATLANTIC ENVIRONMENTAL SERVICES
 ADDRESS: 188 NORWICH AVENUE
 COLCHESTER, CT 06415-
 ATTENTION: MR. ALAN CORNELL

NUS CLIENT NO: 1624 0001
 WORK ORDER NO: 55830
 VENDOR NO:

Carbon Copy:

SAMPLE ID: BZS-OSW-12
 NUS SAMPLE NO: P0215259
 P.O. NO.:

DATE SAMPLED: 19-OCT-92
 DATE RECEIVED: 21-OCT-92
 APPROVED BY: R Volk

LN	TEST CODE	DETERMINATION	RESULT	UNIT
1	ABW	Boron, Total (B)	< 0.05	mg/L

COMMENTS:

October 29, 1992
Report No.: 00011424
Section A Page 2

LABORATORY ANALYSIS REPORT

CLIENT NAME: ATLANTIC ENVIRONMENTAL SERVICES
ADDRESS: 188 NORWICH AVENUE
COLCHESTER, CT 06415-
ATTENTION: MR. ALAN CORNELL

NUS CLIENT NO: 1824 0001
WORK ORDER NO: 55830
VENDOR NO:

Carbon Copy:

SAMPLE ID: HAJ-OSH-12
NUS SAMPLE NO: P0215260
P.O. NO.:

DATE SAMPLED: 19-OCT-92
DATE RECEIVED: 21-OCT-92
APPROVED BY: R Volk

<u>LN</u>	<u>TEST CODE</u>	<u>DETERMINATION</u>	<u>RESULT</u>	<u>UNITS</u>
1	ABW	Boron, Total (B)	< 0.05	mg/L

COMMENTS:



October 29, 1992
 Report No.: 00011424
 Section A Page 3

LABORATORY ANALYSIS REPORT

CLIENT NAME: ATLANTIC ENVIRONMENTAL SERVICES
 ADDRESS: 188 NORWICH AVENUE
 COLCHESTER, CT 06415-
 ATTENTION: MR. ALAN CORNELL

NUS CLIENT NO: 1624 0001
 WORK ORDER NO: 55830
 VENDOR NO:

Carbon Copy:

SAMPLE ID: GTJ-OSW-12
 NUS SAMPLE NO: P0215261
 P.O. NO.:

DATE SAMPLED: 19-OCT-92
 DATE RECEIVED: 21-OCT-92
 APPROVED BY: R Volk

LN	TEST CODE	DETERMINATION	RESULT	UNITS
1	ABW	Boron, Total (B)	< 0.05	mg/L

COMMENTS:



October 29, 1992
 Report No.: 00011424
 Section A Page 4

LABORATORY ANALYSIS REPORT

CLIENT NAME: ATLANTIC ENVIRONMENTAL SERVICES
 ADDRESS: 188 NORWICH AVENUE
 COLCHESTER, CT 06415-
 ATTENTION: MR. ALAN CORNELL

NUS CLIENT NO: 1624 0001
 WORK ORDER NO: 55830
 VENDOR NO:

Carbon Copy:

SAMPLE ID: BZV-OSW-12
 NUS SAMPLE NO: P0215262
 P.O. NO.:

DATE SAMPLED: 19-OCT-92
 DATE RECEIVED: 21-OCT-92
 APPROVED BY: R Volk

<u>LN</u>	TEST CODE	DETERMINATION	RESULT	UNITS
1	ABW	Boron, Total (B)	0.46	mg/L

COMMENTS:



October 29, 1992
 Report No.: 00011424
 Section A Page 5

LABORATORY ANALYSIS REPORT

CLIENT NAME: ATLANTIC ENVIRONMENTAL SERVICES
 ADDRESS: 188 NORWICH AVENUE
 COLCHESTER, CT 06415-
 ATTENTION: MR. ALAN CORNELL

NUS CLIENT NO: 1624 0001
 WORK ORDER NO: 55830
 VENDOR NO:

Carbon Copy:

SAMPLE ID: ERH-OSW-12
 NUS SAMPLE NO: P0215263
 P.O. NO.:

DATE SAMPLED: 19-OCT-92
 DATE RECEIVED: 21-OCT-92
 APPROVED BY: R Volk

<u>LN</u>	TEST CODE	DETERMINATION	RESULT	UNITS
1	ABW	Boron, Total (B)	4.8	mg/L

COMMENTS:



October 29, 1992
 Report No.: 00011424
 Section A Page 6

LABORATORY ANALYSIS REPORT

CLIENT NAME: ATLANTIC ENVIRONMENTAL SERVICES
 ADDRESS: 188 NORWICH AVENUE
 COLCHESTER, CT 06415-
 ATTENTION: MR. ALAN CORNELL

NUS CLIENT NO: 1624 0001
 WORK ORDER NO: 55830
 VENDOR NO:

Carbon Copy:

SAMPLE ID: EUW-OSW-12
 NUS SAMPLE NO: P0215264
 P.O. NO.:

DATE SAMPLED: 19-OCT-92
 DATE RECEIVED: 21-OCT-92
 APPROVED BY: R Volk

<u>LN</u>	TEST CODE	DETERMINATION	RESULT	UNITS
1	ABW	Boron, Total (B)	< 0.05	mg/L

COMMENTS:



STATE OF CONNECTICUT

Department of Health Services
 Laboratory Division
 10 Clinton St.
 P.O. Box 1689
 Hartford, CT 06144
 TELEPHONE: (203) 566-5063

ID.	ACCESSION NO.	ACCOUNT NO.	ROUTE
AP:0072-01*	22137166	A01161	0

059620CN
 MP. PEARSON
 1292 PTE 12
 GROTON CT

DEP/LAND DISPOSAL POT. WATER
 WATER COMPLIANCE
 122 WASHINGTON
 HARTFORD CT 06105

COLLECTED	RECEIVED	REPORTED
08/25/92 11:55	08/25/92 15:59	09/15/ 16:46

REPORT: FINAL REPORT

COMMENT:

TEST	RESULT	ACCEPTABLE RANGE	LOW	ACCEPTABLE RANGE	HIGH
SAMPLING POINT: OUTSIDE TAP COLLECTOR: S. WING PUBLIC WELL TREATMENT: NONE REASON: OTHER COMPLAINT: X USE: CONSTANT SOURCE: DRILLED WELL					
** UNITS: MG/L UNLESS NOTED					
CADMIUM 107	<0.003				
CHROMIUM 109	<0.003				
LEAD 114	0.005				
ARSENIC	0.000				
BARIUM	0.05				
SELENIUM	0.000				
SILVER 122	<0.003				
MERCURY	0.000				
OTHER METAL	0.07 BORON				

RECEIVED
 SEP 25 1992
 WATER MANAGEMENT



STATE OF CONNECTICUT

Department of Health Services
Laboratory Division
10 Clinton St.
P.O. Box 1689
Hartford, CT 06144
TELEPHONE: (203) 566-5063

Table with columns: I.D., ACCESSION NO., ACCOUNT NO., ROUTE. Values: 072-010, 22137165, A01151, 0

INFORMATION
259 GROTON
HILLSIDE PET CARE
1298 N. PLANT.V
GROTON CT

DEP/LAND DISPOSAL POT. WATER
WATER COMPLIANCE
122 WASHINGTON
HARTFORD CT 06102

Table with columns: COLLECTED, RECEIVED, REPORT. Values: 08/25/92 14:05, 08/25/92 15:59, 09/15/92 16:46

REPORT: FINAL REPORT COMMENT:

Main data table with columns: TEST, RESULT, ACCEPTABLE RANGE, LOW, ACCEPTABLE RANGE, HIGH. Includes chemical analysis results for Cadmium, Chromium, Lead, Arsenic, Barium, Selenium, Silver, Mercury, and Other Metal (Boron).

RECEIVED
SEP 25 1992
WATER MANAGEMENT



STATE OF CONNECTICUT

Department of Health Services
 Laboratory Division
 10 Clinton St.
 P.O. Box 1689
 Hartford, CT 06144
 TELEPHONE: (203) 566-5063

LD.	ACCESSION NO.	ACCOUNT NO.	ROUTE
AR:072-024	22137169	AC1161	C

INFORMATION
 072 LEDYARD
 THOMAS VIVLEITO
 1452 ROUTE 12
 LEDYARD CT

DEP/LAND DISPOSAL POT. WATER
 WATER COMPLIANCE
 122 WASHINGTON
 HARTFORD CT 06116

COLLECTED	RECEIVED	REPORTED
08/25/92 14:45	08/25/92 15:59	09/15/92 16:46

REPORT: **FINAL REPORT** COMMENT:

TEST	RESULT	ACCEPTABLE RANGE	LOW	ACCEPTABLE RANGE	HIGH
SAMPLING POINT: KITCHEN TAP COLLECTOR: S. WING PRIVATE WELL USE: CONSTANT SOURCE: DRILLED WELL					
RECEIVED SEP 25 1992 WATER MANAGEMENT					
** UNITS: MG/L UNLESS NOTED					
CADMIUM 107	<0.003				
CHROMIUM 109	<0.003				
LEAD 114	0.006				
ARSENIC	0.000				
BARIUM	<0.01				
SELENIUM	0.000				
SILVER 122	0.000				
MERCURY	0.000				
OTHER METAL	0.003 BORON				



STATE OF CONNECTICUT

Department of Health Services
 Laboratory Division
 10 Clinton St.
 P.O. Box 1689
 Hartford, CT 06144
 TELEPHONE: (203) 566-5063

DEP/LAND DISPOSAL POT. WATER
 WATER COMPLIANCE
 122 WASHINGTON
 HARTFORD CT 06108

LD.	ACCESSION NO.	ACCOUNT NO.	ROUTE
NR:072-022	22137168	AC1161	0

072 LEDYARD
 MC MUGGETT
 1444 RT# 12
 LEDYARD CT

COLLECTED	RECEIVED	REPORT
08/25/92 12:35	08/25/92 15:59	09/15 16:46

REPORT: FINAL REPORT

COMMENT:

TEST	RESULT	ACCEPTABLE RANGE	LOW	ACCEPTABLE RANGE	HIGH
SAMPLING POINT: KITCHEN TAP COLLECTOR: S. WING PRIVATE WELL TREATMENT: NONE REASON: OTHER COMPLAINT: X USE: CONSTANT SOURCE: DRILLED WELL					
** UNITS: MG/L UNLESS NOTED					
CADMIUM 107	<0.003				
CHROMIUM 109	0.000				
LEAD 114	0.003				
ARSENIC	0.000				
BARIUM	<0.01				
SELENIUM	0.000				
SILVER 122	0.000				
MERCURY	0.000				
OTHER METAL	0.04 BORON				

RECEIVED
 SEP 25 1992
 WATER MANAGEMENT



STATE OF CONNECTICUT

Department of Health Services
 Laboratory Division
 10 Clinton St.
 P.O. Box 1689
 Hartford, CT 06144
 TELEPHONE: (203) 566-5063

ID.	ACCESSION NO.	ACCOUNT NO.	ROUTE
NR:072-C12	22137117	A31161	0

INFORMATION
 072 LEDYARD
 MS. CARGILL
 160 MILITARY H
 LEDYARD CT

DEP/LAND DISPOSAL POT. WATER
 WATER COMPLIANCE
 122 WASHINGTON
 HARTFORD CT 06103

COLLECTED	RECEIVED	REPORT
08/24/92 13:50	08/24/92 16:15	09/15/92 16:46

REPORT: FINAL REPORT **COMMENT:**

TEST	RESULT	ACCEPTABLE RANGE	LOW	ACCEPTABLE RANGE	HIGH
SAMPLING POINT: OUTSIDE TAP COLLECTOR: SCOTT WING PRIVATE WELL TREATMENT: NONE USE: CONSTANT SOURCE: DRILLED WELL					
** UNITS: MG/L UNLESS NOTED					
CADMIUM 107	<0.003				
CHROMIUM 109	0.000				
LEAD 114	0.002				
ARSENIC	0.000				
BARIUM	0.04				
SELENIUM	0.000				
SILVER 122	0.000				
MERCURY	0.000				
OTHER METAL	0.06 BORON				

RECEIVED
 SEP 25 1992
 WATER MANAGEMENT



STATE OF CONNECTICUT

Department of Health Services
 Laboratory Division
 10 Clinton St.
 P.O. Box 1689
 Hartford, CT 06144
 TELEPHONE: (203) 566-5063

LD.	ACCESSION NO.	ACCOUNT NO.	ROUTE
NR:072-018	22137116	A01161	0

072LEDYARD
 RESIDENT
 1469 PTE 12
 LEDYARD CT

DEP/LAND DISPOSAL POT. WATER
 WATER COMPLIANCE
 122 WASHINGTON
 HARTFORD CT 06108

COLLECTED	RECEIVED	REPORT
08/24/92 13:35	08/24/92 16:15	09/15/92 16:46

REPORT: FINAL REPORT

COMMENT:

TEST	RESULT	ACCEPTABLE RANGE	LOW	ACCEPTABLE RANGE	HIGH
SAMPLING POINT: OUTSIDE TAP COLLECTOR: SCOTT WING PRIVATE WELL TREATMENT:					
RECEIVED					
SEP 25 1992					
WATER MANAGEMENT					
** UNITS: MG/L UNLESS NOTED					
CADMIUM 107	<0.003				
CHROMIUM 109	0.000				
LEAD 114	0.008				
ARSENIC	0.000				
BARIUM	0.02				
SELENIUM	0.000				
SILVER 122	0.000				
MERCURY	0.000				
OTHER METAL	0.04 BORON				



STATE OF CONNECTICUT

Department of Health Services
 Laboratory Division
 10 Clinton St.
 P.O. Box 1689
 Hartford, CT 06144
 TELEPHONE: (203) 566-5063

ID.	ACCESSION NO.	ACCOUNT NO.	ROUTE
MP:072008	22137115	AC1161	0

INFORMATION

05960TON
 RESIDENT
 1198N. PLEASANT
 GROTON CT

DEP/LAND DISPOSAL POT. WATER
 WATER COMPLIANCE
 122 WASHINGTON
 HARTFORD CT 06106

COLLECTED	RECEIVED	REPORTED
08/24/92 00:00	08/24/92 16:14	09/15/ 16:46

REPORT: FINAL REPORT

COMMENT:

TEST	RESULT	ACCEPTABLE RANGE	LOW	ACCEPTABLE RANGE	HIGH
SAMPLING POINT: OUTSIDE TAP COLLECTOR: SCOTT WING PRIVATE WELL TREATMENT: NONE USE: CONSTANT					
* UNITS: MG/L UNLESS NOTED					
CADMIUM 107	<0.003				
CHROMIUM 109	0.000				
LEAD 114	0.001				
ARSENIC	0.000				
BARIUM	0.05				
SELENIUM	0.000				
SILVER 122	0.000				
MERCURY	0.000				
OTHER METAL	0.05 SCRON				

RECEIVED
 SEP 25 1992
 WATER MANAGEMENT



STATE OF CONNECTICUT

Department of Health Services
 Laboratory Division
 10 Clinton St.
 P.O. Box 1689
 Hartford, CT 06144
 TELEPHONE: (203) 566-5063

LD.	ACCESSION NO.	ACCOUNT NO.	ROUTE
NR:072-006	22137114	AC1161 0	

INFORMATION
 059GROTCN
 DONALD ROWLEY SR
 1130N.PLEASANT
 GROTON CT

DEP/LAND DISPOSAL POT. WATER
 WATER COMPLIANCE
 122 WASHINGTON
 HARTFORD CT 06106

COLLECTED	RECEIVED	REPORT
08/24/92 12:35	08/24/92 16:15	09/15/92 16:45

REPORT: **FINAL REPORT**

COMMENT:

TEST	RESULT	ACCEPTABLE RANGE	LOW	ACCEPTABLE RANGE	HIGH
SAMPLING POINT: OUTSIDE TAP					
COLLECTOR: SCOTT WING					
PRIVATE WELL TREATMENT: NONE					
USE: CONSTANT					
SOURCE: DRIVEN WELL					
DEPTH: 48 FT FT					
<div style="text-align: right; font-weight: bold; font-size: 1.2em;">RECEIVED</div> <div style="text-align: right; font-weight: bold; font-size: 1.2em;">SEP 25 1992</div> <div style="text-align: right; font-weight: bold; font-size: 1.2em;">WATER MANAGEMENT</div>					
** UNITS: MG/L UNLESS NOTED					
CADMIUM 107	<0.003				
CHROMIUM 109	<0.003				
LEAD 114	0.001				
ARSENIC	0.000				
BARIUM	0.02				
SELENIUM	0.000				
SILVER 122	0.000				
MERCURY	0.000				
OTHER METAL	0.03 BORON				



STATE OF CONNECTICUT

Department of Health Services
 Laboratory Division
 10 Clinton St.
 P.O. Box 1689
 Hartford, CT 06144
 TELEPHONE: (203) 566-5063

ID.	ACCESSION NO.	ACCOUNT NO.	ROUTE
11:072-004	22137113	AG1161	0

INFORMATION
 059 GROTON
 DONALD ROWLEY JR
 1140 N. PLEASANT
 GROTON CT

DEP/LAND DISPOSAL POT. WATER
 WATER COMPLIANCE
 122 WASHINGTON
 HARTFORD CT 06106

COLLECTED	RECEIVED	REPORT
08/24/92 12:20	08/24/92 16:15	09/15 16:37

REPORT: FINAL REPORT

COMMENT:

TEST	RESULT	ACCEPTABLE RANGE	LOW	ACCEPTABLE RANGE	HI
SAMPLING POINT: OUTSIDE TAP					
COLLECTOR: SCOTT WING					
PRIVATE WELL TREATMENT:					
USE: CONSTANT					
SOURCE: DRIVEN WELL					
** UNITS: MG/L UNLESS NOTED					
CADMIUM 107	<0.003				
CHROMIUM 109	<0.003				
LEAD 114	0.001				
ARSENIC	0.000				
BARIUM	0.03				
SELENIUM	0.000				
SILVER 122	0.000				
MERCURY	0.000				
OTHER METAL	0.04 BORON				

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 SEP 25 1992
 WATER MANAGEMENT



STATE OF CONNECTICUT

Department of Health Services
 Laboratory Division
 10 Clinton St.
 P.O. Box 1689
 Hartford, CT 06144
 TELEPHONE: (203) 566-5063

ID.	ACCESSION NO.	ACCOUNT NO.	ROUTE
NR:072-C20	22137167	A01161	0

INFORMATION
 054 BROTON
 RESIDENT
 1320 RTE. 12
 BROTON CT

DEP/LAND DISPOSAL POT. WATER
 WATER COMPLIANCE
 722 WASHINGTON
 HARTFORD CT 06108

COLLECTED	RECEIVED	REPORT
08/25/92 12:00	08/25/92 15:59	09/15/92 16:46

REPORT:

FINAL REPORT

COMMENT:

TEST	RESULT	ACCEPTABLE RANGE	LOW	ACCEPTABLE RANGE	HIGH
SAMPLING POINT: OUTSIDE TAP					
COLLECTOR: S. WING					
PRIVATE WELL TREATMENT: NONE					
USE: CONSTANT					
SOURCE: DRILLED WELL					
** UNITS: MG/L UNLESS NOTED					
CADMIUM 107	<0.003				
CHROMIUM 109	0.000				
LEAD 114	0.002				
ARSENIC	0.000				
BARIUM	0.05				
SELENIUM	0.000				
SILVER 122	<0.003				
MERCURY	0.000				
OTHER METAL	0.08 BORON				

RECEIVED
 SEP 25 1992
 WATER MANAGEMENT