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NSB NEW LONDON
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SUMMARY SAMPLE DATA PACKAGE

CLIENT	ATLANTIC ENVIRONMENTAL SERVICES, INC.
CASE	GROTN
SDG	OSW1
LAB NO.	35266
ISSUED	APRIL 12, 1993

Data validation report
META, May 5, 1993 for OSW3
OSW8
OSW11
OSW23
OSW6
OSW41

~~From~~

validated values
added 7/1/93 BLG

PACE New England, Incorporated
Hampton, New Hampshire

pace
INCORPORATED
THE ASSURANCE OF QUALITY

April 12, 1993

Mr. Barry Giroux
Atlantic Environmental
188 Norwich Ave
Colchester, CT 06415

SAMPLE DELIVERY GROUP NARRATIVE

Case: GROTN
SDG: OSW1
Laboratory: PACE, Incorporated of Hampton, NH

Lab Numbers: 35266
Protocol: NEESA Level D deliverables, ASCII diskette

Sample Receipt: Samples were received at PACE, Inc. in one shipment on 3/6/93. Laboratory numbers were assigned to samples as indicated in the sample table which follows this narrative. Sample shipments were checked for custody seal integrity and cooler temperature. Temperature blanks were present and the temperature was noted on the Chains-of-custody. Samples were checked for appropriate preservation and accuracy against the Chains-of-Custody provided. Other than the exceptions noted below, samples were received cool, properly field preserved and in good condition. Equipment blanks and field blanks were not submitted for this project as all samples were taken directly from residential tap sources and therefore are not required.

Shipment received 3/6/93 (35266): The temperatures of all coolers were recorded to be 2 degrees C. Custody seals were not present on shipping coolers upon receipt at the lab because an Atlantic Environmental staff member hand delivered samples to the laboratory. Sample "OSW10" and its associated QC aliquots are reported under laboratory number 35284 (the second SDG for this project).

Metals Analysis: Holding times follow CLP rules and are calculated from verified time of sample receipt (VTSR).

ICP Analysis: Samples analyzed for ICP were digested in two batches, the first batch for CLP metals and the second batch to include boron. Samples for this SDG were analyzed in two sequences on 03/18/93, and 03/29/93. Serial dilution was performed on MMOSW8. Sample spike and duplicate precision met CLP QC limits. No ICP lead results were reported for these samples. Form 14's do not exist for boron results from 03/29/93 due to limitations of the software. There were no analytical results in the boron run that were discarded.

GFAA Analyses: Samples analyzed for furnace were digested in two batches. The second batch was digested for the matrix spike only.

> *Arsenic by GFAA:* Two arsenic sequences were performed for these samples on 03/18/93, and 03/31/93. Sample spike recovery and duplicate precision met CLP QC limits. No problems were encountered in the analysis of these samples.

P.O. Box 2130
One Lafayette Road
Hampton, NH 03842
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Lead by GFAA: Two lead sequences were performed for these samples on 03/18/93, and 03/23/93. MMOSW6 spike recovery did not meet CLP QC limits for lead. Lead results are flagged with the "N" qualifier accordingly. Duplicate precision met CLP QC limits. Several samples required dilution. MMOSW5 required an MSA, the results of which are calculated from concentrations resulting from duplicate injections.

Selenium by GFAA: Samples for this SDG were analyzed in five sequences on 04/02/93, 04/06/93, 04/07/93, and 04/08/93. The selenium standard used for instrument calibration on 04/02/93, and 04/06/93 expired 03/31/93. No alternative source was available at the time. The Initial Calibration Verification standard from a separate source passed, and the data generated was used. An alternate standard used on 04/07/93 and 04/08/93 compared favorably to the same Initial Calibration Verfication standard indicating that the standard material used in previous runs had not degraded.

Thallium by GFAA: Thallium results for samples in this SDG were analyzed in two sequences on 03/23/93, 03/26/93. Sample spike recovery and duplicate precision met CLP QC limits. No problems were encountered in the analysis of these samples.

Mercury Analysis: Samples were digested and analyzed within holding time in one analytical sequence on 03/16/93. Sample spike recovery and duplicate precision met CLP QC limits. No problems were encountered in the analysis of these samples.

Cyanide Analysis: Samples were analyzed within holding time in one analytical sequence on 03/17/93. No problems were encountered in the analysis of the samples.

Chloride Analysis: Samples were analyzed according to the referenced method. No problems were encountered during the analysis of these samples.

Statement of Compliancy and Data Authorization

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

Richard L Wellman
Authorized Signature, PACE Inc.

4/12/93
April 12, 1993

SAMPLE TABLE

CLIENT ID.	MATRIX	PACE #	PARAMETERS
OSW8	WATER	35266-001	CLP METALS
			BORON
		35266-019	TOTAL CYANIDE
		35266-037	CHLORIDE
OSW22	WATER	35266-002	CLP METALS
			BORON
		35266-020	TOTAL CYANIDE
		35266-038	CHLORIDE
OSW21	WATER	35266-003	CLP METALS
			BORON
		35266-021	TOTAL CYANIDE
		35266-039	CHLORIDE
OSW24	WATER	35266-004	CLP METALS
			BORON
		35266-022	TOTAL CYANIDE
		35266-040	CHLORIDE
OSW11	WATER	35266-005	CLP METALS
			BORON
		35266-023	TOTAL CYANIDE
		35266-041	CHLORIDE
OSW14	WATER	35266-006	CLP METALS
			BORON
		35266-024	TOTAL CYANIDE
		35266-042	CHLORIDE
OSW2	WATER	35266-007	CLP METALS
			BORON
		35266-025	TOTAL CYANIDE
		35266-043	CHLORIDE
OSW30	WATER	35266-008	CLP METALS
			BORON
		35266-026	TOTAL CYANIDE
		35266-044	CHLORIDE
OSW3	WATER	35266-009	CLP METALS
			BORON
		35266-027	TOTAL CYANIDE
		35266-045	CHLORIDE

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SAMPLE TABLE
(CONTINUED)

CLIENT ID.	MATRIX	PACE #	PARAMETERS
OSW5	WATER	35266-010	CLP METALS
			BORON
		35266-028	TOTAL CYANIDE
		35266-046	CHLORIDE
OSW6	WATER	35266-011	CLP METALS
SQC			BORON
		35266-029	TOTAL CYANIDE
		35266-047	CHLORIDE
OSW41	WATER	35266-012	CLP METALS
			BORON
		35266-030	TOTAL CYANIDE
		35266-048	CHLORIDE
OSW1	WATER	35266-013	CLP METALS
			BORON
		35266-031	TOTAL CYANIDE
		35266-049	CHLORIDE
OSW15	WATER	35266-014	CLP METALS
			BORON
		35266-032	TOTAL CYANIDE
		35266-050	CHLORIDE
OSW23	WATER	35266-015	CLP METALS
			BORON
		35266-033	TOTAL CYANIDE
		35266-051	CHLORIDE
OSW40	WATER	35266-017	CLP METALS
			BORON
		35266-035	TOTAL CYANIDE
		35266-053	CHLORIDE
OSW13	WATER	35266-018	CLP METALS
			BORON
		35266-036	TOTAL CYANIDE
		35266-054	CHLORIDE

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ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MMOSW1

Lab Name: PACE NEW ENGLAND, INC. Contract:

Lab Code: Case No.: GROTN SAS No.: SDG No.: MMOSW1

Matrix (soil/water): WATER Lab Sample ID: 35266-013

Level (low/med): LOW Date Received: 03/06/93

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	34.9	B		P
7440-36-0	Antimony	14.4	U		P
7440-38-2	Arsenic	1.0	U	W	F
7440-39-3	Barium	35.2	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.5	U		P
7440-70-2	Calcium	9690			P
7440-47-3	Chromium	3.9	U		P
7440-48-4	Cobalt	2.6	U		P
7440-50-8	Copper	41.0			P
7439-89-6	Iron	32.1	B		P
7439-92-1	Lead	1.1	B	N	F
7439-95-4	Magnesium	1560	B		P
7439-96-5	Manganese	4.8	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	11.0	U		P
7440-09-7	Potassium	731	B		P
7782-49-2	Selenium	1.2	B	W	F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	37200			P
7440-28-0	Thallium	2.0	U	W	F
7440-62-2	Vanadium	5.0	U		P
7440-66-6	Zinc	33.7			P
	Cyanide	1.8	U		AS
7440-42-8	BORON	21.1	B		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
PACE Lab Sample ID for Cyanide: 35266-031

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MMOSW2

Lab Name: PACE NEW ENGLAND, INC. Contract:

Lab Code: Case No.: GROTN SAS No.: SDG No.: MMOSW1

Matrix (soil/water): WATER Lab Sample ID: 35266-007

Level (low/med): LOW Date Received: 03/06/93

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	88.5	B		P
7440-36-0	Antimony	14.4	U		P
7440-38-2	Arsenic	1.0	U	W	F
7440-39-3	Barium	11.3	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.5	U		P
7440-70-2	Calcium	6070			P
7440-47-3	Chromium	3.9	U		P
7440-48-4	Cobalt	2.6	U		P
7440-50-8	Copper	12.5	B		P
7439-89-6	Iron	30.6	B		P
7439-92-1	Lead	6.5		N	F
7439-95-4	Magnesium	1100	B		P
7439-96-5	Manganese	11.6	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	11.0	U		P
7440-09-7	Potassium	598	B		P
7782-49-2	Selenium	1.0	U		F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	3640	B		P
7440-28-0	Thallium	2.0	U		F
7440-62-2	Vanadium	5.0	U		P
7440-66-6	Zinc	8.9	B		P
	Cyanide	1.8	U		AS
7440-42-8	BORON	20.0	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
PACE Lab Sample ID for Cyanide: 35266-025

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MMOSW3

Lab Name: PACE NEW ENGLAND, INC. Contract:

Lab Code: Case No.: GROTN SAS No.: SDG No.: MMOSW1

Matrix (soil/water): WATER Lab Sample ID: 35266-009

Level (low/med): LOW Date Received: 03/06/93

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	21.6	U		P	
7440-36-0	Antimony	14.4	U		P	
7440-38-2	Arsenic	1.0	U	W	F	
7440-39-3	Barium	85.2	B		P	
7440-41-7	Beryllium	1.0	U		P	
7440-43-9	Cadmium	2.5	U		P	
7440-70-2	Calcium	28000			P	
7440-47-3	Chromium	3.9	U		P	
7440-48-4	Cobalt	2.6	B		P	
7440-50-8	Copper	194			P	
7439-89-6	Iron	105			P	
7439-92-1	Lead	~~2.9~~	~~B~~	N	F	J5, 2.9U3
7439-95-4	Magnesium	3690	B		P	
7439-96-5	Manganese	891			P	
7439-97-6	Mercury	0.20	U		CV	
7440-02-0	Nickel	11.0	U		P	
7440-09-7	Potassium	17900			P	
7782-49-2	Selenium	1.0	U	M	F	
7440-22-4	Silver	3.0	U		P	
7440-23-5	Sodium	29100			P	
7440-28-0	Thallium	2.0	U		F	
7440-62-2	Vanadium	5.0	U		P	
7440-66-6	Zinc	~~7.1~~	~~B~~		P	7.1U3
	Cyanide	1.8	U		AS	
7440-42-8	BORON	~~30.1~~	~~B~~		P	30.1U3

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
PACE Lab Sample ID for Cyanide: 35266-027

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MMOSW5

Lab Name: PACE NEW ENGLAND, INC. Contract:

Lab Code: Case No.: GROTN SAS No.: SDG No.: MMOSW1

Matrix (soil/water): WATER Lab Sample ID: 35266-010

Level (low/med): LOW Date Received: 03/06/93

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	21.6	U		P
7440-36-0	Antimony	14.4	U		P
7440-38-2	Arsenic	1.0	U		F
7440-39-3	Barium	24.5	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.5	U		P
7440-70-2	Calcium	10800			P
7440-47-3	Chromium	3.9	U		P
7440-48-4	Cobalt	2.6	U		P
7440-50-8	Copper	220			P
7439-89-6	Iron	48.9	B		P
7439-92-1	Lead	20.1		NS	F
7439-95-4	Magnesium	1700	B		P
7439-96-5	Manganese	5.4	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	11.0	U		P
7440-09-7	Potassium	1500	B		P
7782-49-2	Selenium	1.0	U		F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	9210			P
7440-28-0	Thallium	2.0	U		F
7440-62-2	Vanadium	5.0	U		P
7440-66-6	Zinc	23.8			P
	Cyanide	1.8	U		AS
7440-42-8	BORON	28.0	B		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
PACE Lab Sample ID for Cyanide: 35266-028

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MMOSW6

Lab Name: PACE NEW ENGLAND, INC. Contract:

Lab Code: Case No.: GROTN SAS No.: SDG No.: MMOSW1

Matrix (soil/water): WATER Lab Sample ID: 35266-011

Level (low/med): LOW Date Received: 03/06/93

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	21.6	U		P	
7440-36-0	Antimony	14.4	U		P	
7440-38-2	Arsenic	1.0	U		F	
7440-39-3	Barium	~~6.5~~	~~B~~		P	6.5 U3
7440-41-7	Beryllium	1.0	U		P	
7440-43-9	Cadmium	2.5	U		P	
7440-70-2	Calcium	7790			P	
7440-47-3	Chromium	3.9	U		P	
7440-48-4	Cobalt	2.6	U		P	
7440-50-8	Copper	276			P	
7439-89-6	Iron	~~12.8~~	~~B~~		P	12.8 U3
7439-92-1	Lead	5.7		N	F	J5
7439-95-4	Magnesium	1750	B		P	
7439-96-5	Manganese	1.0	U		P	
7439-97-6	Mercury	0.20	U		CV	
7440-02-0	Nickel	11.0	U		P	
7440-09-7	Potassium	931	B		P	
7782-49-2	Selenium	~~2.4~~	~~B~~	W	F	2.4 U3
7440-22-4	Silver	3.0	U		P	
7440-23-5	Sodium	9840			P	
7440-28-0	Thallium	2.0	U		F	
7440-62-2	Vanadium	5.0	U		P	
7440-66-6	Zinc	21.8			P	
	Cyanide	1.8	U		AS	
7440-42-8	BORON	26.9	B		P	26.9 U3

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
PACE Lab Sample ID for Cyanide: 35266-029

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MMOSW8

Lab Name: PACE NEW ENGLAND, INC. Contract:

Lab Code: Case No.: GROTN SAS No.: SDG No.: MMOSW1

Matrix (soil/water): WATER Lab Sample ID: 35266-001

Level (low/med): LOW Date Received: 03/06/93

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	35.9	B		P	
7440-36-0	Antimony	14.4	U		P	
7440-38-2	Arsenic	1.0	U	W	F	
7440-39-3	Barium	183	B		P	
7440-41-7	Beryllium	1.0	U		P	
7440-43-9	Cadmium	2.5	U		P	
7440-70-2	Calcium	35400			P	
7440-47-3	Chromium	3.9	U		P	
7440-48-4	Cobalt	2.6	U		P	
7440-50-8	Copper	127			P	
7439-89-6	Iron	~~52.0~~	~~B~~		P	52 U3
7439-92-1	Lead	264 ~~264~~		N	F	J5
7439-95-4	Magnesium	5580			P	
7439-96-5	Manganese	10.4	B		P	
7439-97-6	Mercury	0.20	U		CV	
7440-02-0	Nickel	11.0	U		P	
7440-09-7	Potassium	3740	B		P	
7782-49-2	Selenium	2.6	B	W	F	2.6 U3
7440-22-4	Silver	3.0	U		P	
7440-23-5	Sodium	97700			P	
7440-28-0	Thallium	2.0	U	W	F	
7440-62-2	Vanadium	5.0	U		P	
7440-66-6	Zinc	196			P	
	Cyanide	1.8	U		AS	
7440-42-8	BORON	40.6	B		P	40.6 U3

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
PACE Lab Sample ID for Cyanide: 35266-019

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MOSW11

Lab Name: PACE NEW ENGLAND, INC. Contract:

Lab Code: Case No.: GROTN SAS No.: SDG No.: MMOSW1

Matrix (soil/water): WATER Lab Sample ID: 35266-005

Level (low/med): LOW Date Received: 03/06/93

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	241			P	
7440-36-0	Antimony	14.4	U		P	
7440-38-2	Arsenic	1.0	U	W	F	
7440-39-3	Barium	~~11.8~~	~~B~~		P	11.8U3
7440-41-7	Beryllium	1.0	U		P	
7440-43-9	Cadmium	2.5	U		P	
7440-70-2	Calcium	4120	B		P	
7440-47-3	Chromium	3.9	U		P	
7440-48-4	Cobalt	2.6	U		P	
7440-50-8	Copper	22.3	B		P	
7439-89-6	Iron	~~86.8~~	~~B~~		P	86.8U3
7439-92-1	Lead	~~3.1~~		NW	F	35,3.1U3
7439-95-4	Magnesium	1020	B		P	
7439-96-5	Manganese	10.2	B		P	
7439-97-6	Mercury	0.20	U		CV	
7440-02-0	Nickel	11.0	U		P	
7440-09-7	Potassium	343	U		P	
7782-49-2	Selenium	1.0	U		F	
7440-22-4	Silver	3.0	U		P	
7440-23-5	Sodium	3370	B		P	
7440-28-0	Thallium	2.0	U		F	
7440-62-2	Vanadium	5.0	U		P	
7440-66-6	Zinc	~~8.0~~	~~B~~		P	8.0U3
	Cyanide	4.2	B		AS	
7440-42-8	BORON	20.0	U		P	

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
PACE Lab Sample ID for Cyanide: 35266-023

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MOSW13

Lab Name: PACE NEW ENGLAND, INC. Contract:

Lab Code: Case No.: GROTN SAS No.: SDG No.: MMOSW1

Matrix (soil/water): WATER Lab Sample ID: 35266-018

Level (low/med): LOW Date Received: 03/06/93

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	21.6	U		P
7440-36-0	Antimony	14.4	U		P
7440-38-2	Arsenic	1.0	U	W	F
7440-39-3	Barium	7.0	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.5	U		P
7440-70-2	Calcium	28000			P
7440-47-3	Chromium	3.9	U		P
7440-48-4	Cobalt	2.6	U		P
7440-50-8	Copper	26.3			P
7439-89-6	Iron	26.9	B		P
7439-92-1	Lead	1.0	U	N	F
7439-95-4	Magnesium	1630	B		P
7439-96-5	Manganese	1.0	U		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	11.0	U		P
7440-09-7	Potassium	1280	B		P
7782-49-2	Selenium	1.0	U		F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	17000			P
7440-28-0	Thallium	2.0	U		F
7440-62-2	Vanadium	5.0	U		P
7440-66-6	Zinc	6.7	B		P
	Cyanide	1.8	U		AS
7440-42-8	BORON	27.4	B		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
PACE Lab Sample ID for Cyanide: 35266-036

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MOSW14

Lab Name: PACE NEW ENGLAND, INC. Contract:

Lab Code: Case No.: GROTN SAS No.: SDG No.: MMOSW1

Matrix (soil/water): WATER Lab Sample ID: 35266-006

Level (low/med): LOW Date Received: 03/06/93

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	21.6	U		P
7440-36-0	Antimony	~~17.1~~	B	JU AC	P
7440-38-2	Arsenic	1.0	U		F
7440-39-3	Barium	114	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.5	U		P
7440-70-2	Calcium	28500			P
7440-47-3	Chromium	3.9	U		P
7440-48-4	Cobalt	2.6	U		P
7440-50-8	Copper	10.7	B		P
7439-89-6	Iron	14.1	B		P
7439-92-1	Lead	3.0		N	F
7439-95-4	Magnesium	1600	B		P
7439-96-5	Manganese	1.0	U		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	11.0	U		P
7440-09-7	Potassium	745	B		P
7782-49-2	Selenium	1.0	U		F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	6710			P
7440-28-0	Thallium	2.0	U		F
7440-62-2	Vanadium	5.0	U		P
7440-66-6	Zinc	8.0	B		P
	Cyanide	1.8	U		AS
7440-42-8	BORON	24.3	B		P

J, 85.54

~~J 85.5~~

J = reports estimate - below CRDL and above IDL

U = reports not detect - less than 5x level found in blank (CCV)

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
PACE Lab Sample ID for Cyanide: 35266-024

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MOSW15

Lab Name: PACE NEW ENGLAND, INC. Contract:

Lab Code: Case No.: GROTN SAS No.: SDG No.: MMOSW1

Matrix (soil/water): WATER Lab Sample ID: 35266-014

Level (low/med): LOW Date Received: 03/06/93

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	21.6	U		P
7440-36-0	Antimony	14.4	U		P
7440-38-2	Arsenic	1.0	U	W	F
7440-39-3	Barium	2.9	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.5	U		P
7440-70-2	Calcium	21000			P
7440-47-3	Chromium	3.9	U		P
7440-48-4	Cobalt	2.6	U		P
7440-50-8	Copper	12.9	B		P
7439-89-6	Iron	53.5	B		P
7439-92-1	Lead	1.0	U	NW	F
7439-95-4	Magnesium	1770	B		P
7439-96-5	Manganese	2.7	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	11.0	U		P
7440-09-7	Potassium	1080	B		P
7782-49-2	Selenium	1.0	U		F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	8600			P
7440-28-0	Thallium	2.0	U		F
7440-62-2	Vanadium	5.0	U		P
7440-66-6	Zinc	7.9	B		P
	Cyanide	1.8	U		AS
7440-42-8	BORON	22.2	B		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
PACE Lab Sample ID for Cyanide: 35266-032

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MOSW21

Lab Name: PACE NEW ENGLAND, INC. Contract:

Lab Code: Case No.: GROTN SAS No.: SDG No.: MMOSW1

Matrix (soil/water): WATER Lab Sample ID: 35266-003

Level (low/med): LOW Date Received: 03/06/93

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	56.1	B		P
7440-36-0	Antimony	14.4	U		P
7440-38-2	Arsenic	1.0	U		F
7440-39-3	Barium	37.9	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.5	U		P
7440-70-2	Calcium	9080			P
7440-47-3	Chromium	4.5	B		P
7440-48-4	Cobalt	2.6	U		P
7440-50-8	Copper	104			P
7439-89-6	Iron	76.7	B		P
7439-92-1	Lead	9.2		N	F
7439-95-4	Magnesium	2300	B		P
7439-96-5	Manganese	18.7			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	11.0	U		P
7440-09-7	Potassium	1930	B		P
7782-49-2	Selenium	1.0	U	W	F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	16100			P
7440-28-0	Thallium	2.0	U		F
7440-62-2	Vanadium	5.0	U		P
7440-66-6	Zinc	17.5	B		P
	Cyanide	15.5			AS
7440-42-8	BORON	22.7	B		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
PACE Lab Sample ID for Cyanide: 35266-021

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MOSW22

Lab Name: PACE NEW ENGLAND, INC. Contract:

Lab Code: Case No.: GROTN SAS No.: SDG No.: MMOSW1

Matrix (soil/water): WATER Lab Sample ID: 35266-002

Level (low/med): LOW Date Received: 03/06/93

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	30.8	B		P
7440-36-0	Antimony	14.4	U		P
7440-38-2	Arsenic	1.0	U		F
7440-39-3	Barium	26.7	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.5	U		P
7440-70-2	Calcium	12300			P
7440-47-3	Chromium	3.9	U		P
7440-48-4	Cobalt	2.6	U		P
7440-50-8	Copper	512			P
7439-89-6	Iron	60.5	B		P
7439-92-1	Lead	6.3		N	F
7439-95-4	Magnesium	2850	B		P
7439-96-5	Manganese	5.4	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	11.0	U		P
7440-09-7	Potassium	2270	B		P
7782-49-2	Selenium	1.0	U	W	F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	16300			P
7440-28-0	Thallium	2.0	U		F
7440-62-2	Vanadium	5.0	U		P
7440-66-6	Zinc	19.9	B		P
	Cyanide	2.3	B		AS
7440-42-8	BORON	20.1	B		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
PACE Lab Sample ID for Cyanide: 35266-020

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MOSW23

Lab Name: PACE NEW ENGLAND, INC. Contract:

Lab Code: Case No.: GROTN SAS No.: SDG No.: MMOSW1

Matrix (soil/water): WATER Lab Sample ID: 35266-015

Level (low/med): LOW Date Received: 03/06/93

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	281			P
7440-36-0	Antimony	14.4	U		P
7440-38-2	Arsenic	1.0	U	W	F
7440-39-3	Barium	43.0	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.5	U		P
7440-70-2	Calcium	6800			P
7440-47-3	Chromium	3.9	U		P
7440-48-4	Cobalt	2.6	U		P
7440-50-8	Copper	398			P
7439-89-6	Iron	134			P
7439-92-1	Lead	~~3.7~~		N	F
7439-95-4	Magnesium	2100	B		P
7439-96-5	Manganese	50.9			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	11.0	U		P
7440-09-7	Potassium	1930	B		P
7782-49-2	Selenium	1.0	U		F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	17900			P
7440-28-0	Thallium	2.0	U		F
7440-62-2	Vanadium	5.0	U		P
7440-66-6	Zinc	26.2			P
	Cyanide	1.8	U		AS
7440-42-8	BORON	20.0	U		P

35, 3.743

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
PACE Lab Sample ID for Cyanide: 35266-033

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MOSW24

Lab Name: PACE NEW ENGLAND, INC. Contract:

Lab Code: Case No.: GROTN SAS No.: SDG No.: MMOSW1

Matrix (soil/water): WATER Lab Sample ID: 35266-004

Level (low/med): LOW Date Received: 03/06/93

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	27.1	B		P
7440-36-0	Antimony	14.4	U		P
7440-38-2	Arsenic	1.0	U	W	F
7440-39-3	Barium	31.7	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.5	U		P
7440-70-2	Calcium	8950			P
7440-47-3	Chromium	4.8	B		P
7440-48-4	Cobalt	2.6	U		P
7440-50-8	Copper	66.4			P
7439-89-6	Iron	46.8	B		P
7439-92-1	Lead	3.7		N	F
7439-95-4	Magnesium	1850	B		P
7439-96-5	Manganese	13.3	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	11.0	U		P
7440-09-7	Potassium	1840	B		P
7782-49-2	Selenium	4.1	B		F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	37500			P
7440-28-0	Thallium	2.0	U		F
7440-62-2	Vanadium	5.0	U		P
7440-66-6	Zinc	7.0	B		P
	Cyanide	4.8	B		AS
7440-42-8	BORON	20.0	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
PACE Lab Sample ID for Cyanide: 35266-022

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MOSW30

Lab Name: PACE NEW ENGLAND, INC. Contract:

Lab Code: Case No.: GROTN SAS No.: SDG No.: MMOSW1

Matrix (soil/water): WATER Lab Sample ID: 35266-008

Level (low/med): LOW Date Received: 03/06/93

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	21.6	U		P
7440-36-0	Antimony	14.4	U		P
7440-38-2	Arsenic	1.0	U		F
7440-39-3	Barium	9.0	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.5	U		P
7440-70-2	Calcium	4770	B		P
7440-47-3	Chromium	3.9	U		P
7440-48-4	Cobalt	2.6	U		P
7440-50-8	Copper	125			P
7439-89-6	Iron	113			P
7439-92-1	Lead	5.9		N	F
7439-95-4	Magnesium	1170	B		P
7439-96-5	Manganese	13.7	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	11.0	U		P
7440-09-7	Potassium	446	B		P
7782-49-2	Selenium	1.0	U		F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	16200			P
7440-28-0	Thallium	2.0	U		F
7440-62-2	Vanadium	5.0	U		P
7440-66-6	Zinc	14.8	B		P
	Cyanide	1.9	B		AS
7440-42-8	BORON	20.0	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
PACE Lab Sample ID for Cyanide: 35266-026

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MOSW40

Lab Name: PACE NEW ENGLAND, INC. Contract:

Lab Code: Case No.: GROTN SAS No.: SDG No.: MMOSW1

Matrix (soil/water): WATER Lab Sample ID: 35266-017

Level (low/med): LOW Date Received: 03/06/93

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	522			P
7440-36-0	Antimony	14.4	U		P
7440-38-2	Arsenic	1.0	U	W	F
7440-39-3	Barium	21.4	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.5	U		P
7440-70-2	Calcium	3640	B		P
7440-47-3	Chromium	3.9	U		P
7440-48-4	Cobalt	2.6	U		P
7440-50-8	Copper	2.7	B		P
7439-89-6	Iron	23.5	B		P
7439-92-1	Lead	1.8	B	N	F
7439-95-4	Magnesium	822	B		P
7439-96-5	Manganese	59.0			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	11.0	U		P
7440-09-7	Potassium	343	U		P
7782-49-2	Selenium	2.0	B		F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	5570			P
7440-28-0	Thallium	2.0	U		F
7440-62-2	Vanadium	5.0	U		P
7440-66-6	Zinc	11.0	B		P
	Cyanide	1.8	U		AS
7440-42-8	BORON	20.0	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
PACE Lab Sample ID for Cyanide: 35266-035

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MOSW41

Lab Name: PACE NEW ENGLAND, INC. Contract:

Lab Code: Case No.: GROTN SAS No.: SDG No.: MMOSW1

Matrix (soil/water): WATER Lab Sample ID: 35266-012

Level (low/med): LOW Date Received: 03/06/93

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	21.6	U		P	
7440-36-0	Antimony	14.4	U		P	
7440-38-2	Arsenic	1.0	U		F	
7440-39-3	Barium	~~6.8~~	~~B~~		P	6.843
7440-41-7	Beryllium	1.0	U		P	
7440-43-9	Cadmium	2.5	U		P	
7440-70-2	Calcium	8110			P	
7440-47-3	Chromium	3.9	U		P	
7440-48-4	Cobalt	2.6	U		P	
7440-50-8	Copper	291			P	
7439-89-6	Iron	~~11.6~~	~~B~~		P	11.643
7439-92-1	Lead	5.4 ~~5.4~~		N	F	J5
7439-95-4	Magnesium	1850	B		P	
7439-96-5	Manganese	1.0	U		P	
7439-97-6	Mercury	0.20	U		CV	
7440-02-0	Nickel	11.0	U		P	
7440-09-7	Potassium	825	B		P	
7782-49-2	Selenium	1.0	U		F	
7440-22-4	Silver	3.0	U		P	
7440-23-5	Sodium	10500			P	
7440-28-0	Thallium	2.0	U		F	
7440-62-2	Vanadium	5.0	U		P	
7440-66-6	Zinc	21.6			P	
	Cyanide	2.0	B		AS	
7440-42-8	BORON	~~26.4~~	~~B~~		P	26.443

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
PACE Lab Sample ID for Cyanide: 35266-030

Field Identification: OSW8 Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	Method/Ref.
Chloride (mg/L)	180	1	35266-037	03/16/93	325.1/1

Field Identification: OSW22 Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	Method/Ref.
Chloride (mg/L)	31	1	35266-038	03/16/93	325.1/1

Field Identification: OSW21 Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	Method/Ref.
Chloride (mg/L)	27	1	35266-039	03/16/93	325.1/1

Field Identification: OSW24 Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	Method/Ref.
Chloride (mg/L)	66	1	35266-040	03/16/93	325.1/1

Field Identification: OSW11 Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	Method/Ref.
Chloride (mg/L)	5	1	35266-041	03/16/93	325.1/1

Field Identification: OSW14 Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	Method/Ref.
Chloride (mg/L)	6	1	35266-042	03/16/93	325.1/1

Field Identification: OSW2 Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	Method/Ref.
Chloride (mg/L)	5	1	35266-043	03/16/93	325.1/1

Field Identification: OSW30 Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	Method/Ref.
Chloride (mg/L)	25	1	35266-044	03/16/93	325.1/1

Field Identification: OSW3 Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	Method/Ref.
Chloride (mg/L)	95	1	35266-045	03/16/93	325.1/1

Field Identification: OSW5 Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	Method/Ref.
Chloride (mg/L)	14	1	35266-046	03/16/93	325.1/1

Field Identification: OSW6 Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	Method/Ref.
Chloride (mg/L)	16	1	35266-047	03/16/93	325.1/1

Field Identification: OSW41 Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	Method/Ref.
Chloride (mg/L)	15	1	35266-048	03/16/93	325.1/1

Field Identification: OSW1 Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	Method/Ref.
Chloride (mg/L)	57	1	35266-049	03/16/93	325.1/1

Field Identification: OSW15 Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	Method/Ref.
Chloride (mg/L)	5	1	35266-050	03/16/93	325.1/1

Field Identification: OSW23 Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	Method/Ref.
Chloride (mg/L)	26	1	35266-051	03/16/93	325.1/1

Field Identification: OSW40 Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	Method/Ref.
Chloride (mg/L)	6	1	35266-053	03/16/93	325.1/1

Field Identification: OSW13 Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	Method/Ref.
Chloride (mg/L)	26	1	35266-054	03/16/93	325.1/1

References: 1) 40 CFR Part 136, Friday, October 26, 1984

METHOD REFERENCES

Volatiles--CLP Soils	USEPA CLP SOW OLM01.8
Volatiles--Low Level Waters	USEPA SW 846, 3rd ed. Method 8260
Semivolatiles--CLP TCL	USEPA CLP SOW OLM01.8
Pesticides/Polychlorinated Biphenyls (PCBs)	USEPA CLP SOW OLM01.8
Metals and Cyanide	USEPA CLP SOW ILM02.1
Conventional and Physical Parameters	Methods are referenced on sample results

pace INCORPORATED
THE ASSURANCE OF QUALITY

91682

CHAIN-OF-CUSTODY RECORD
Analytical Request

Client: ATLANTIC ENV. SERVICES
Address: 188 NORWICH AVE.
COLCHESTER CT. 06415
Phone: 203 537-0751

Report To: ERIK NESS / BARRY GIROUX
Bill To: TESS WIRHUN
P.O. # / Billing Reference: 1256-22-09-01
Project Name / No.: NAVY RESIDENTIAL WELLS

Pace Client No.
Pace Project Manager
Pace Project No.
*Requested Due Date:

Sampled By (PRINT): ERIK J. NESS
Sampler Signature: [signature]
Date Sampled: 3/4/93 - ~~3/5/93~~

temp = 2.0 °C

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PACE NO.	NO. OF CONTAINERS	UNPRESERVED	H_2SO_4	HNO_3	VOA	NaOH	ANALYSES REQUEST: CYANIDE	CHLORIDE	METALS + BORON	REMARKS
1	030493 OSW 8	8:30	Water	35266		1		1		2	-19 2-37	1	1-1	
2	030493 OSW 22	9:15	H_2O			1		1		2	-20 2-38	1	1-2	
3	030493 OSW 21	9:20	H_2O			1		1		2	-21 2-39	1	1-3	
4	030493 OSW 24	10:00	H_2O			1		1		2	-22 2-40	1	1-4	
5	030493 OSW 11	12:00	H_2O			1		1		2	-23 2-41	1	1-5	
6	030493 OSW 14	12:30	H_2O			1		1		2	-24 2-42	1	1-6	
7	030493 OSW 2	1302	H_2O			1		1		2	-25 2-43	1	1-7	
8	030493 OSW 30	1507	H_2O			1		1		2	-26 2-44	1	1-8	

COOLER NOS.	BAILERS	SHIPMENT METHOD OUT / DATE	SHIPMENT METHOD RETURNED / DATE

ITEM NUMBER	RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME
	[signature]	Paula Hammett	3/5/93	1700
	Paula Hammett	Dina Jost	3/6/93	0825

Additional Comments

#35266

ORIGINAL

SEE REVERSE SIDE FOR INSTRUCTIONS

pace INCORPORATED
THE ASSURANCE OF QUALITY

91673

CHAIN-OF-CUSTODY RECORD
Analytical Request

Client: Atlantic Env. Svc.
Address: 188 Norwich Ave
Colchester CT 06415
Phone: 203 537-0751

Report To: Barry Groves / Erik Ness
Bill To: Tess Wirhun
P.O. # / Billing Reference: 1256-22-04-01
Project Name / No.: Navy Residential Wells

Pace Client No.:
Pace Project Manager:
Pace Project No.:
*Requested Due Date:

Sampled By (PRINT): Erik J. Ness
Sampler Signature: Erik J. N
Date Sampled: 3/5/93

temp = 2°C

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PACE NO.	NO. OF CONTAINERS	UNPRESERVED	H_2SO_4	HNO_3	VOA	NaOH	ANALYSES REQUEST: CYANIDE	CHLORIDE	Metals + Boron	REMARKS
1	030593 OSW 3	0915	H_2O			1		1		2	-27 2-45	1	1-9	
2	030593 OSW 5	1020	H_2O			1		1		2	-28 2-46	1	1-10	
3	030593 OSW 6	1100	H_2O			3		3		6	-29 6-47	3	3-11	MS/MSD
4	030593 OSW 41	1100	H_2O			1		1		2	-30 2-48	1	1-12	
5	030593 OSW 1	1300	H_2O			1		1		2	-31 2-49	1	1-13	
6	030593 OSW 15	1340	H_2O			1		1		2	-32 2-50	1	1-14	
7	030593 OSW 23	1530	H_2O			1		1		2	-33 2-51	1	1-15	
8														

COOLER NOS.	BAILERS	SHIPMENT METHOD OUT / DATE	RETURNED / DATE

Additional Comments

#35266

ITEM NUMBER	RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME
	Erik N	Paula Hammett	3/5/93	1700
	Paula Hammett	Dina Ford	3/6/93	0825

ORIGINAL

SEE REVERSE SIDE FOR INSTRUCTIONS

pace INCORPORATED
THE ASSURANCE OF QUALITY

91681

CHAIN-OF-CUSTODY RECORD
Analytical Request

Client: ATLANTIC ENV. SVCS
Address: 188 NORWICH AVE
COLCHESTER CT 06415
Phone: 203 537-0751

Report To: BARRY GIROUX / ERIK NESS
Bill To: TESS WIRHUN
P.O. # / Billing Reference: 12560-22-04-01
Project Name / No.: Navy Res. Wells

Pace Client No.
Pace Project Manager
Pace Project No.
*Requested Due Date:

Sampled By (PRINT): ERIK J. NESS
Sampler Signature: Erik J N
Date Sampled: 3/4/93 - ~~3/5/93~~

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PACE NO.	NO. OF CONTAINERS	UNPRESERVED	H_2SO_4	HNO_3	VOA	NaOH	ANALYSES REQUEST: CYANIDE	CHLORIDE	METALS + BORON	REMARKS
														temp = 2°C
1	030493 OSW 10	1615	H_2O		3		3			6	34 6-52	3	3-16	MS / MSD
2	030493 OSW 40	1615	H_2O		1		1			2	35 2-53	1	1-17	
3	030493 OSW 13	1710	H_2O		1		1			2	36 2-54	1	1-18	
4	~~030593 OSW 3~~	0915	H_2O		1		1			2	2	1	1	
5	~~030593 OSW 5~~	1020	H_2O		1		1			2	2	1	1	
6	~~030593 OSW 6~~	1100	H_2O		1		1			2	2	1	1	
7														
8														

COOLER NOS.	BAILERS	SHIPMENT METHOD OUT / DATE	SHIPMENT METHOD RETURNED / DATE

ITEM NUMBER	RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME
	Erik J N / Atlantic	Paula Hammett	3-5-93	1700
	Paula Hammett	Dina Jon	3/6/93	0825

Additional Comments

Sample OSW10 reported in 2nd SDG

ORIGINAL

#: 85266

SEE REVERSE SIDE FOR INSTRUCTIONS

pace INCORPORATED
THE ASSURANCE OF QUALITY

91681

CHAIN-OF-CUSTODY RECORD
Analytical Request

Client: ATLANTIC ENV. SVCS
Address: 188 NORWICH AVE
COLCHESTER CT 06415
Phone: 203 537-0751

Report To: BARRY GIROUX / ERIK NESS
Bill To: TESS WIRHUN
P.O. # / Billing Reference: 12560-22-04-01
Project Name / No.: Navy Res. Wells

Pace Client No.:
Pace Project Manager:
Pace Project No.:
*Requested Due Date:

Sampled By (PRINT): ERIK J. NESS
Sampler Signature: Erik J N
Date Sampled: 3/4/93 - ~~3/5/93~~

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PACE NO.	NO. OF CONTAINERS	UNPRESERVED	H_2SO_4	HNO_3	VOA	NaOH	CYANIDE	CHLORIDE	METALS + BRON	REMARKS
1	030493 OSW 10	1615	H_2O		3		3			6	34 6-52	3	3-16	MS/MSD
2	030493 OSW 40	1615	H_2O		1		1			2	35 2-53	1	1-17	
3	030493 OSW 13	1710	H_2O		1		1			2	36 2-54	1	1-18	
~~4~~	~~030593 OSW 3~~	~~0915~~	~~H_2O~~		~~1~~		~~1~~			~~2~~	~~2~~	~~1~~	~~1~~	EJN
~~5~~	~~030593 OSW 5~~	~~1020~~	~~H_2O~~		~~1~~		~~1~~			~~2~~	~~2~~	~~1~~	~~1~~	EJN
~~6~~	~~030593 OSW 6~~	~~1100~~	~~H_2O~~		~~1~~		~~1~~			~~2~~	~~2~~	~~1~~	~~1~~	EJN
7														
8														

temp = 2°C

COOLER NOS.	BAILERS	SHIPMENT METHOD OUT / DATE	SHIPMENT METHOD RETURNED / DATE

ITEM NUMBER	RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME
	Erik J N / Atlantic	Paula Hammett	3-5-93	1700
	Paula Hammett	Dina Ford	3/6/93	0825

Additional Comments

Sample OSW10 reported in 2nd SDG

ORIGINAL

#35266

SEE REVERSE SIDE FOR INSTRUCTIONS

pace INCORPORATED
THE ASSURANCE OF QUALITY

91673

CHAIN-OF-CUSTODY RECORD
Analytical Request

Client: Atlantic Inv. Svc.
Address: 188 Norwich Ave
Colchester CT 06415
Phone: 203 537-0751

Report To: Barry Giroux / Erik Ness
Bill To: Jess Wirhun
P.O. # / Billing Reference: 1256-22-04-01
Project Name / No.: Navy Residential Wells

Pace Client No.:
Pace Project Manager:
Pace Project No.:
*Requested Due Date:

Sampled By (PRINT): Erik J. Ness
Sampler Signature: Erik J. N
Date Sampled: 3/5/93

temp = 2°C

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PACE NO.	NO. OF CONTAINERS	UNPRESERVED	H_2SO_4	HNO_3	VOA	NaOH	ANALYSES REQUEST: CYANIDE	CHLORIDE	Metals + Boron	REMARKS
1	030593 OSW 3	0915	H_2O			1		1		2	-27 2-45	1	1-9	
2	030593 OSW 5	1020	H_2O			1		1		2	-28 2-46	1	1-10	
3	030593 OSW 6	1100	H_2O			3		3		6	-29 6-47	3	3-11	MS/MSD
4	030593 OSW 41	1100	H_2O			1		1		2	-30 2-48	1	1-12	
5	030593 OSW 1	1300	H_2O			1		1		2	-31 2-49	1	1-13	
6	030593 OSW 15	1340	H_2O			1		1		2	-32 2-50	1	1-14	
7	030593 OSW 23	1530	H_2O			1		1		2	-33 2-51	1	1-15	
8														

COOLER NOS.	BAILERS	SHIPMENT METHOD OUT / DATE	RETURNED / DATE

Additional Comments

#35266

ITEM NUMBER	RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME
	Erik N	Paula Hammett	3/5/93	1700
	Paula Hammett	Dina [illegible]	3/6/93	0825

ORIGINAL

SEE REVERSE SIDE FOR INSTRUCTIONS

pace INCORPORATED
THE ASSURANCE OF QUALITY

91682

CHAIN-OF-CUSTODY RECORD
Analytical Request

Client: ATLANTIC ENV. SERVICES
Address: 188 NORWICH AVE.
COLCHESTER CT. 06415
Phone: 203 537-0751

Report To: ERIK NESS / BARRY GIROUX
Bill To: TESS WIRHUN
P.O. # / Billing Reference: 1256-22-09-01
Project Name / No.: NAVY RESIDENTIAL WELLS

Pace Client No.
Pace Project Manager
Pace Project No.
*Requested Due Date:

Sampled By (PRINT): ERIK J. NESS
Sampler Signature: [signature]
Date Sampled: 3/4/93 - ~~3/5/93~~

temp = 2.0 °C

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PACE NO.	NO. OF CONTAINERS	PRESERVATIVES: UNPRESERVED	H_2SO_4	HNO_3	VOA	NaOH	ANALYSES REQUEST: CYANIDE	CHLORIDE	METALS + BORON	REMARKS
1	030493 OSW 8	8:30	Water	35266		1		1		2	-19	2-37	1	1-1
2	030493 OSW 22	9:15	H_2O			1		1		2	-20	2-38	1	1-2
3	030493 OSW 21	9:20	H_2O			1		1		2	-21	2-39	1	1-3
4	030493 OSW 24	10:00	H_2O			1		1		2	-22	2-40	1	1-4
5	030493 OSW 11	12:00	H_2O			1		1		2	-23	2-41	1	1-5
6	030493 OSW 14	12:30	H_2O			1		1		2	-24	2-42	1	1-6
7	030493 OSW 2	1302	H_2O			1		1		2	-25	2-43	1	1-7
8	030493 OSW 30	1507	H_2O			1		1		2	-26	2-44	1	1-8

COOLER NOS.	BAILERS	SHIPMENT METHOD OUT / DATE	RETURNED / DATE

ITEM NUMBER	RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME
	[signature]	Paula Hammett	3/5/93	1700
	Paula Hammett	Dina Jost	3/6/93	0825

Additional Comments

#35266

ORIGINAL

SEE REVERSE SIDE FOR INSTRUCTIONS

PACE New England, Inc.
Internal Custody Record

CLP 001050

Lab#: 35266

Continued from Page: _____

Disposal Date: _____

Sample Numbers Involved	In To/By Date/Time
-1 to 54	#24 (JW) 03/08/93 0800

Sample Numbers Removed	Removed By Date/Time	Returned By Date/Time	Returned To Date/Time/	Consumed? (Y/N)
19-36 A,B	MGB 3/9/93 820	MGB 3/9/93 1650	DAF 3/10/93 1640	19-26AY 29 A,B,C,Y
-37→54	CAW 3/9/93 950	CAW 3/9/93 1445	DAF 3/9/93 1630	
27-36 A NOT 29, NOT 34	MGB 3/10/93 8:30		~~DAF 3/10/93~~ 1 @ DAF	yes
1→15,17,18 ~~#18~~	JLW 3/12/93 0820	JLW 3/12/93 1700	(JW) 03/12/93 1730	-11A
19→36 Distillates		PMR 3/17/93 1655		
1-15,17,18	SEO 830 3/23/93	SEO 1015 3/23/93		

Continued on Page: _____

INTERNAL CUSTODY RECORD FOR SAMPLE STORAGE AREA 10

JOB NUMBER Groton #1

DISPOSAL DATE _____ PAGE __ OF __

SAMPLE	IN BY DATE/TIME	OUT BY DATE/TIME	IN BY DATE/TIME	OUT BY DATE/TIME	IN BY DATE/TIME	CONSUMED Y/N ?
PBW167	SPD 1700 3/12/93	10:25 3-18-93	15:25 3-18-93			
LCSW666						
352666-1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
11D SD 3/12						
11S						
12						
13						
14						
15						
17 SD 3/12						
18						

PACE, INC.

PACE, INC.
INTERNAL CUSTODY RECORD FOR SAMPLE STORAGE AREA 10

JOB NUMBER GROTON - SDG #1 to include Boron

DISPOSAL DATE _____ PAGE __ OF __

SAMPLE	IN BY DATE/TIME	OUT BY DATE/TIME	IN BY DATE/TIME	OUT BY DATE/TIME	IN BY DATE/TIME	CONSUMED Y/N ?
PBW71	3/23/93 1410	10:16 3-29-93	13:30 ~~10:16~~ 3-29-93	15:30 3-29-93	3-30-93	
LCSW71						
35266-1						
-2						
-3						
-4						
-5						
-6						
-7						
-8						
-9						
-10						
-11						
-11 Dup						
-11 Spike						
-12						
-13						
-14						
-15						
-17						
-18						

PACE, INC.
INTERNAL CUSTODY RECORD FOR SAMPLE STORAGE AREA 10

JOB NUMBER Groton #1

DISPOSAL DATE _____ PAGE 1 OF __

SAMPLE	IN BY DATE/TIME	OUT BY DATE/TIME	IN BY DATE/TIME	OUT BY DATE/TIME	IN BY DATE/TIME	CONSUMED Y/N ?
PBW73	SW 3/12/93 1700	905 3.18.93	3-18-93/23:15	1030 3.22.93	3-26-93/15:22	N
LCSW73						
35266-1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
110						
115						
12						
13						
14						
15						
~~16~~ 3/12/93						
17			3-18-93/23:15			
18						

INTERNAL CUSTODY RECORD FOR SAMPLE STORAGE AREA 10

JOB NUMBER Groton 1

DISPOSAL DATE _____ PAGE 2 OF __

SAMPLE	IN BY DATE/TIME	OUT BY DATE/TIME	IN BY DATE/TIME	OUT BY DATE/TIME	IN BY DATE/TIME	CONSUMED Y/N ?
PBW73	see previous page	4.2.93 HM 830	EGM 4-2-93/22:00	HM 845 4.6.93	HM 1507 4.9.93	
LCSW73						
35266-1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
11D						
11S						
12						
13						
14						
15						
17						
18						

PACE, INC.
INTERNAL CUSTODY RECORD FOR SAMPLE STORAGE AREA 10

JOB NUMBER _____

DISPOSAL DATE _____ PAGE __ OF __

SAMPLE	IN BY DATE/TIME	OUT BY DATE/TIME	IN BY DATE/TIME	OUT BY DATE/TIME	IN BY DATE/TIME	CONSUMED Y/N ?
PBW 78	SSD 1240 3/23/93		EG 3-26-93 15:22 ~~3-26-93/21:05~~	EG 3-31-93/15:06	EG 4-5-93/14:00	~
LCSW78	IN LAB					
35231-1S						
35266-11S						
35284-19S						
35306-3S						
35352-32S						
PBW 78		Hm 805 4.6.93	Hm 1510 4.9.93			
LCSW 78						