

**NHS, INC.**

805 Goethals Drive • Richland, WA 99352 • (509) 943-0802

a subsidiary of Hanford Environmental Health Foundation

October 5, 1990

OCT 17 1990

CO 90-0603

Advanced Nuclear Fuels  
2101 Horn Rapids Road  
Richland, WA 99352

Attn: S. Lockhaven

WATER SAMPLES ANALYSES

The three water samples received September 5, 1990, have been analyzed for fluoride and nitrate as requested. Nitrate was analyzed by ion chromatography; fluoride by specific ion electrode.

| <u>Sample</u> | <u>mg/L Fluoride</u> | <u>mg/L NO<sub>3</sub>-N</u> |
|---------------|----------------------|------------------------------|
| #14           | 6.1                  | 58                           |
| #15           | 27                   | 46                           |
| #16           | 4.2                  | 0.07                         |

If you have any questions concerning this report, please contact NHS, Inc.

*P. A. Thurman*

P. A. Thurman  
NHS, Inc.

k1



ICE PPB

4-12-90-

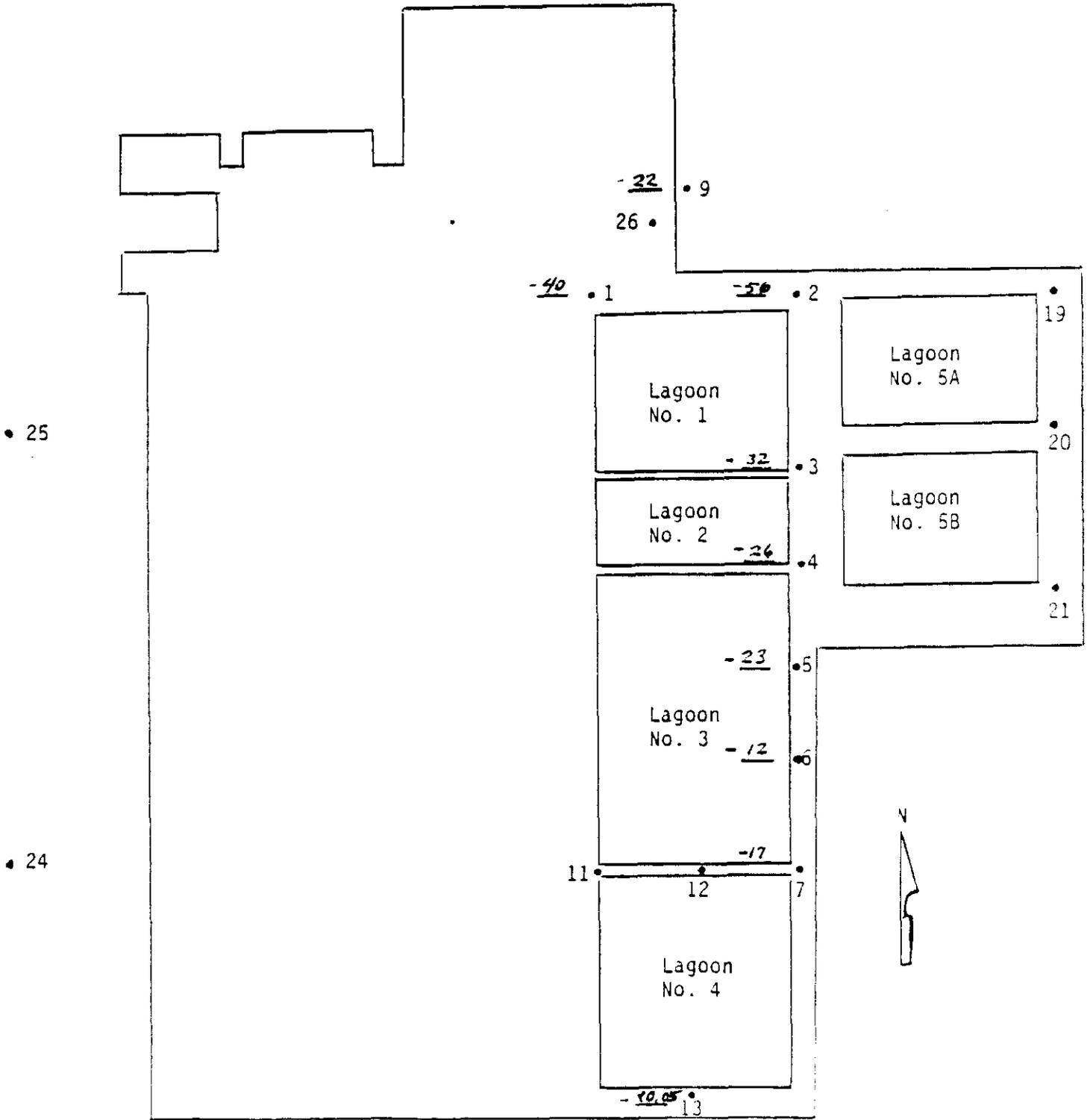
6-4-90-

9-5-90-

Horn Rapids Road

|           |    |           |    |           |     |
|-----------|----|-----------|----|-----------|-----|
| <u>33</u> | •  | <u>72</u> | •  | <u>30</u> | •16 |
| <u>22</u> | 14 | <u>58</u> | 15 | <u>53</u> | •18 |
| <u>14</u> |    | <u>44</u> |    | <u>33</u> |     |

•17



•23

•22

**TABLE 2**

| <b>ANF Well No.</b> | <b>Location (Lambert Grid)</b> |            | <b>Elevation of Water Table Above Mean Sea Level (9/11/90)</b> |
|---------------------|--------------------------------|------------|--|
| 1                   | N372769.0                      | E2303158.0 | 353.69   |
| 2                   | N372769.0                      | E2303443.0 | 353.79   |
| 3                   | N372526.5                      | E2303443.0 | 353.87   |
| 4                   | N372385.0                      | E2303443.0 | 353.89   |
| 5                   | N372255.0                      | E2303443.0 | 354.01   |
| 6                   | N372141.0                      | E2303443.0 | 353.95   |
| 7                   | N371966.7                      | E2303443.0 | 353.98   |
| 9                   | N372941.0                      | E2303289.0 | 353.76   |
| 11                  | N371981.0                      | E2303182.0 | 353.97   |
| 12                  | N371986.0                      | E2303306.8 | 353.98   |
| 13                  | N371713.7                      | E2303306.8 | 354.07   |
| 14                  | N373448.0                      | E2303389.5 | 353.69   |
| 15                  | N373443.9                      | E2303529.0 | 353.61   |
| 16                  | N373447.4                      | E2303693.7 | 353.60   |
| 19                  | N372774.2                      | E2303767.2 | 353.82   |
| 20                  | N372581.4                      | E2303767.2 | 353.87   |
| 21                  | N372371.7                      | E2303767.7 | 353.93   |
| 22                  | N371586.1                      | E2303410.0 | 354.00   |
| 23                  | N371555.1                      | E2302498.8 | 354.05   |
| 24                  | N372116.9                      | E2302281.9 | 354.00   |
| 25                  | N372619.6                      | E2302040.7 | 354.10   |
| 26                  | N372884.2                      | E2303261.6 | 353.78   |

NATIONAL EXPRESS LABORATORIES, INC.



Pacific Northwest Environmental Laboratory, Inc.  
3820 159th Avenue, N.E.  
Redmond, WA 98052  
(206) 885-0083  
FAX (206) 867-2214

September 24, 1990

Steven Lockhaven  
Advanced Nuclear Fuels  
2101 Horn Rapids Road  
Richland WA 99352

**NARRATIVE FOR PNEL 2636**  
*Submission from Pacific Northwest Environmental Laboratory*

Enclosed are data summary sheets and supporting documentation for the nine samples received on September 6, 1990. The field identification numbers, corresponding lab identification numbers, and dates collected are listed below.

| <u>FIELD ID</u> | <u>LAB ID</u> | <u>DATE COLLECTED</u> |
|-----------------|---------------|-----------------------|
| 1-Well#14 QC    | 2636-03       | 09-05-90              |
| 2-Well#14 QA    | 2636-03       | 09-05-90              |
| 3-Well#14       | 2636-03       | 09-05-90              |
| 4-Well#15       | 2636-04       | 09-05-90              |
| 5-Well#16       | 2636-05       | 09-05-90              |
| 6-Well#3        | 2636-06       | 09-05-90              |
| 7-Well#4        | 2636-07       | 09-05-90              |
| 8-Well#5        | 2636-08       | 09-05-90              |
| 9-Well#6        | 2636-09       | 09-05-90              |
| 10-Well#7       | 2636-10       | 09-05-90              |
| 11-Tripblank    | 2636-11       | 09-05-90              |

Listed below are anomalies and narratives associated with the receipt and/or analysis of these samples.

***Sample Receiving***

The sample 4-WELL#15 (2636-04) contained airbubbles less than 1/4" in diameter in two of two vials for volatile analysis.

The following samples each contained an airbubble less than 1/4" in diameter in one of two vials for volatile analysis.

| PNEL ID | CLIENT ID   |
|---------|-------------|
| 2636-03 | 2-WELL#14QA |
| 2636-07 | 7-WELL#4    |
| 2636-08 | 8-WELL#5    |

The vial without the airbubble was to be used for analysis.

Steven Lockhaven  
Advanced Nuclear Fuels  
September 24, 1990  
Page 2

***Sample Receiving cont.***

The samples were processed as originally requested.

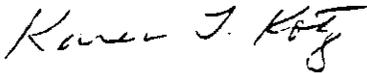
***Volatiles Analysis***

No problems were encountered during the analysis of these samples and their associated QC.

CLP deliverables are being provided for trichloroethylene only for these samples. The organics analysis data sheets were modified to present data only for trichloroethylene. All other forms are unaltered (i.e. data for all CLP compounds are included).

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designee, as verified by the following signature.

Sincerely,



\NAR-0310.636  
Enclosures

**PACIFIC NORTHWEST  
ENVIRONMENTAL  
LABORATORY**

METHOD REFERENCE

Analytical Methods for  
Volatiles

Environmental Protection Agency, Contract Laboratory Program, Organic  
Statement of Work, Exhibit-D, February 1988.

**NATEX**

Pacific Northwest Environmental Laboratory, Inc.  
 3820 159th Avenue, N.E.  
 Redmond, WA 98052  
 (206) 885-0083  
 FAX (206) 867-2214

**DATA REPORTING QUALIFIERS**

Some of these qualifiers may appear in this analytical data report. Soil samples are analyzed and reported on a dry weight basis unless otherwise noted.

**ORGANICS QUALIFIERS**

- A - This flag indicates that a TIC is a suspected aldol-condensation product.
- B - Indicates compound was found in the associated blank as well as in the sample.
- C - This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- D - This flag identifies all compounds identified in an analysis at a secondary dilution factor.
- E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis.
- J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a target compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- M - Indicates value is taken from a medium level analysis.
- ND- Not detected. Detection limit shown in parentheses.
- NQ- Not quantitated as...
- U - Indicates compound was analyzed for but not detected at the given detection limit. The sample quantitation limit was corrected for dilution and for percent moisture, when applicable.
- X - Other specific flags and footnotes may be required to properly define the results. If more than two qualifiers are required for a sample result, the "X" flag combines several flags, as needed. For instance, the "X" flag might combine the "A," "B," and "D" flags for some sample.
- \* ... Indicates spiked compounds used for MS/MSD analysis.

**INORGANICS QUALIFIERS**

- NA- Relative percent difference calculation is not applicable to analytes when not detected.
- NC- Not calculated when analyte is not detected.
- NS- Not calculated when sample concentration of analyte exceeds spike level by a factor of four or more.
- U - Indicates that analyte was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.
- B - Indicates that analyte was analyzed for and detected, but the concentration was less than the CRDL provided in the current SOW for inorganics CLP.

**INORGANICS METHOD QUALIFIERS**

- CV- Manual Cold Vapor AA
- F - FURNACE AA
- P - ICP

**NATEX**

Pacific Northwest Environmental Laboratory, Inc.

**DATA SUMMARY PACKAGE**

**A. Organics Data Summary by Fraction (when appropriate)**

- 1) Analysis Data Sheets
  - Form I
  - Form I - TIC
- 2) Surrogate Recovery Data Sheets
  - Form II
- 3) MS/MSD Recovery Data Sheets
  - Form III
- 4) Method Blank Summary
  - Form IV
- 5) Method Blank Analysis Data Sheets
  - Form I
  - Form I - TIC
- 6) Internal Standard Area Data - VOA, Semi-VOA Only
  - Form VIII

**B. Inorganics Data Summary (when appropriate)**

- 1) Analysis Data Sheets
  - Form I - IN
- 2) Method Blank Summary
  - Form III - IN
- 3) Spike Sample Data Sheets
  - Form V (Part 1) - IN
  - Form V (Part 2) - IN
- 4) Duplicate Data Sheets
  - Form VI - IN
- 5) Laboratory Control Sample
  - Form VII - IN

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

WELL\_14

Lab Name: PNELI\_\_\_\_\_ Contract: ADV\_NUCLEAR  
 Lab Code: PNELI\_\_ Case No.: 2636\_\_ SAS No.: \_\_\_\_\_ SDG No.: 2636\_\_  
 Matrix: (soil/water) WATER\_ Lab Sample ID: 2636-03\_\_\_\_\_  
 Sample wt/vol: \_\_5.0 (g/mL) ML\_\_ Lab File ID: A5067\_\_\_\_\_  
 Level: (low/med) LOW\_\_\_ Date Received: 09/06/90  
 % Moisture: not dec. \_\_\_\_ Date Analyzed: 09/07/90  
 Column: (pack/cap) CAP\_\_\_ Dilution Factor: 1.0\_\_\_\_\_

| CAS NO.      | COMPOUND             | CONCENTRATION UNITS:<br>(ug/L or ug/Kg) UG/L | Q |
|--------------|----------------------|--|---|
| 79-01-6----- | Trichloroethene_____ | 14   |   |

FORM I VOA

1/87 Rev.

000001

1E  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

WELL\_14

Lab Name: PNELI\_\_\_\_\_ Contract: ADV\_NUCLEAR

Lab Code: PNELI\_\_\_ Case No.: 2636\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: 2636\_\_\_

Matrix: (soil/water) WATER\_ Lab Sample ID: 2636-03\_\_\_\_\_

Sample wt/vol: \_\_\_5.0 (g/mL) ML\_\_\_ Lab File ID: A5067\_\_\_\_\_

Level: (low/med) LOW\_\_\_ Date Received: 09/06/90

% Moisture: not dec. \_\_\_\_ Date Analyzed: 09/07/90

Column (pack/cap) CAP\_\_\_ Dilution Factor: 1.0\_\_\_\_\_

Number TICs found: \_\_0

CONCENTRATION UNITS:  
 (ug/L or ug/Kg) UG/L\_

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | 0 |
|------------|---------------|----|------------|---|
|            |               |    |            |   |

Data Not Requested

000002

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

WELL14-MS

Lab Name: PNELI\_\_\_\_\_ Contract: ADV\_NUCLEAR \_\_\_\_\_  
Lab Code: PNELI\_\_ Case No.: 2636\_\_ SAS No.: \_\_\_\_\_ SDG No.: 2636\_\_  
Matrix: (soil/water) WATER\_ Lab Sample ID: 2636-03MS\_\_\_\_  
Sample wt/vol: \_\_5.0 (g/mL) ML\_\_ Lab File ID: A5068\_\_\_\_\_  
Level: (low/med) LOW\_\_\_ Date Received: 09/06/90  
% Moisture: not dec. \_\_\_\_ Date Analyzed: 09/07/90  
Column: (pack/cap) CAP\_\_\_ Dilution Factor: 1.0\_\_\_\_\_

| CAS NO.      | COMPOUND             | CONCENTRATION UNITS: |   |
|--------------|----------------------|----------------------|---|
|              |                      | (ug/L or ug/Kg) UG/L | Q |
| 79-01-6----- | Trichloroethene_____ | 5                    | U |

FORM I VOA

1/87 Rev.

000003

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

WELL\_14-MSD

Lab Name: PNELI\_\_\_\_\_ Contract: ADV\_NUCLEAR  
Lab Code: PNELI\_\_\_ Case No.: 2636\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: 2636\_\_\_  
Matrix: (soil/water) WATER\_ Lab Sample ID: 2636-03MSD\_\_\_  
Sample wt/vol: \_\_\_5.0 (g/mL) ML\_\_\_ Lab File ID: A5069\_\_\_\_\_  
Level: (low/med) LOW\_\_\_ Date Received: 09/06/90  
% Moisture: not dec. \_\_\_\_ Date Analyzed: 09/07/90  
Column: (pack/cap) CAP\_\_\_ Dilution Factor: 1.0\_\_\_\_\_

| CAS NO. | COMPOUND        | CONCENTRATION UNITS: |   |
|---------|-----------------|----------------------|---|
|         |                 | (ug/L or ug/Kg) UG/L | G |
| 79-01-6 | Trichloroethene | 5                    | U |

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000004

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

WELL 15

Lab Name: PNELI\_\_\_\_\_ Contract: ADV\_NUCLEAR  
Lab Code: PNELI\_\_ Case No.: 2636\_\_ SAS No.: \_\_\_\_\_ SDG No.: 2636\_\_  
Matrix: (soil/water) WATER\_ Lab Sample ID: 2636-04\_\_\_\_\_  
Sample wt/vol: \_\_5.0 (g/mL) ML\_\_ Lab File ID: A5088\_\_\_\_\_  
Level: (low/med) LOW\_\_\_ Date Received: 09/06/90  
% Moisture: not dec. \_\_\_ Date Analyzed: 09/13/90  
Column: (pack/cap) CAP\_\_\_ Dilution Factor: 1.0\_\_\_\_\_

| CAS NO. | COMPOUND        | CONCENTRATION UNITS:<br>(ug/L or ug/Kg) UG/L | g |
|---------|-----------------|--|---|
| 79-01-6 | Trichloroethene | 44   |   |

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000005

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

WELL\_15

Lab Name: PNELI\_\_\_\_\_ Contract: ADV\_NUCLEAR  
Lab Code: PNELI\_\_ Case No.: 2636\_\_ SAS No.: \_\_\_\_\_ SDG No.: 2636\_\_  
Matrix: (soil/water) WATER\_ Lab Sample ID: 2636-04\_\_\_\_\_  
Sample wt/vol: \_\_5.0 (g/mL) ML\_\_ Lab File ID: A5088\_\_\_\_\_  
Level: (low/med) LOW\_\_\_ Date Received: 09/06/90  
% Moisture: not dec. \_\_\_\_ Date Analyzed: 09/13/90  
Column (pack/cap) CAP\_\_\_ Dilution Factor: 1.0\_\_\_\_\_

Number TICs found: \_\_0  
CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT    | EST. CONC. | Q     |
|------------|---------------|-------|------------|-------|
| -----      | -----         | ----- | -----      | ----- |

Data Not Requested

000006

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

WELL\_16

Lab Name: PNELI\_\_\_\_\_ Contract: ADV\_NUCLEAR  
Lab Code: PNELI\_\_ Case No.: 2636\_\_ SAS No.: \_\_\_\_\_ SDG No.: 2636\_\_  
Matrix: (soil/water) WATER\_ Lab Sample ID: 2636-05\_\_\_\_\_  
Sample wt/vol: \_\_5.0 (g/mL) ML\_\_ Lab File ID: A5089\_\_\_\_\_  
Level: (low/med) LOW\_\_\_ Date Received: 09/06/90  
% Moisture: not dec. \_\_\_\_ Date Analyzed: 09/13/90  
Column: (pack/cap) CAP\_\_\_ Dilution Factor: 1.0\_\_\_\_\_

| CAS NO.      | COMPOUND        | CONCENTRATION UNITS:  |   |
|--------------|-----------------|-----------------------|---|
|              |                 | (ug/L or ug/Kg) UG/L_ | 0 |
| 79-01-6----- | Trichloroethene | 33                    |   |

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000007

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

WELL\_16

Lab Name: PNELI\_\_\_\_\_ Contract: ADV\_NUCLEAR  
Lab Code: PNELI\_\_ Case No.: 2636\_\_ SAS No.: \_\_\_\_\_ SDG No.: 2636\_\_  
Matrix: (soil/water) WATER\_ Lab Sample ID: 2636-05\_\_\_\_\_  
Sample wt/vol: \_\_5.0 (g/mL) ML\_\_ Lab File ID: A5089\_\_\_\_\_  
Level: (low/med) LOW\_\_\_ Date Received: 09/06/90  
% Moisture: not dec. \_\_\_\_ Date Analyzed: 09/13/90  
Column (pack/cap) CAP\_\_\_ Dilution Factor: 1.0\_\_\_\_\_

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L\_

Number TICs found: \_\_0

| CAS NUMBER | COMPOUND NAME | RT    | EST. CONC. | ID    |
|------------|---------------|-------|------------|-------|
| =====      | =====         | ===== | =====      | ===== |

Data Not Requested

800000

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

WELL\_03

Lab Name: PNELI\_\_\_\_\_ Contract: ADV\_NUCLEAR  
Lab Code: PNELI\_\_ Case No.: 2636\_\_ SAS No.: \_\_\_\_\_ SDG No.: 2636\_\_  
Matrix: (soil/water) WATER\_ Lab Sample ID: 2636-06\_\_\_\_\_  
Sample wt/vol: \_\_5.0 (g/mL) ML\_\_ Lab File ID: A5090\_\_\_\_\_  
Level: (low/med) LOW\_\_\_ Date Received: 09/06/90  
% Moisture: not dec. \_\_\_\_ Date Analyzed: 09/13/90  
Column: (pack/cap) CAP\_\_\_ Dilution Factor: 1.0\_\_\_\_\_

| CAS NO.      | COMPOUND             | CONCENTRATION UNITS:<br>(ug/L or ug/Kg) UG/L | 0 |
|--------------|----------------------|--|---|
| 79-01-6----- | Trichloroethene_____ | 32   |   |

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600000

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

WELL\_03

Lab Name: PNELI\_\_\_\_\_ Contract: ADV\_NUCLEAR  
Lab Code: PNELI\_\_ Case No.: 2636\_\_ SAS No.: \_\_\_\_\_ SDG No.: 2636\_\_  
Matrix: (soil/water) WATER\_ Lab Sample ID: 2636-06\_\_\_\_\_  
Sample wt/vol: \_\_5.0 (g/mL) ML\_\_ Lab File ID: A5090\_\_\_\_\_  
Level: (low/med) LOW\_\_\_ Date Received: 09/06/90  
% Moisture: not dec. \_\_\_\_ Date Analyzed: 09/13/90  
Column (pack/cap) CAP\_\_\_ Dilution Factor: 1.0\_\_\_\_\_

Number TICs found: \_\_0 . CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L\_\_

| CAS NUMBER | COMPOUND NAME | RT    | EST. CONC. | Q     |
|------------|---------------|-------|------------|-------|
| =====      | =====         | ===== | =====      | ===== |

Data Not Requested

000010

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

WELL\_04

Lab Name: PNELI\_\_\_\_\_ Contract: ADV\_NUCLEAR  
Lab Code: PNELI\_\_ Case No.: 2636\_\_ SAS No.: \_\_\_\_\_ SDG No.: 2636\_\_  
Matrix: (soil/water) WATER\_ Lab Sample ID: 2636-07\_\_\_\_\_  
Sample wt/vol: \_\_5.0 (g/mL) ML\_\_ Lab File ID: A5091\_\_\_\_\_  
Level: (low/med) LOW\_\_\_ Date Received: 09/06/90  
% Moisture: not dec. \_\_\_\_ Date Analyzed: 09/13/90  
Column: (pack/cap) CAP\_\_\_ Dilution Factor: 1.0\_\_\_\_\_

| CAS NO. | COMPOUND        | CONCENTRATION UNITS:<br>(ug/L or ug/Kg) UG/L | Q |
|---------|-----------------|--|---|
| 79-01-6 | Trichloroethene | 26   | Q |

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000011

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

WELL\_04

Lab Name: PNELI\_\_\_\_\_ Contract: ADV\_NUCLEAR  
Lab Code: PNELI\_\_ Case No.: 2636\_\_ SAS No.: \_\_\_\_\_ SDG No.: 2636\_\_  
Matrix: (soil/water) WATER\_ Lab Sample ID: 2636-07\_\_\_\_\_  
Sample wt/vol: \_\_5.0 (g/mL) ML\_\_ Lab File ID: A5091\_\_\_\_\_  
Level: (low/med) LDW\_\_\_ Date Received: 09/06/90  
% Moisture: not dec. \_\_\_\_ Date Analyzed: 09/13/90  
Column (pack/cap) CAP\_\_\_ Dilution Factor: 1.0\_\_\_\_\_

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

Number TICs found: \_\_0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|----|------------|---|
|            |               |    |            |   |

Data Not Requested

000012

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

WELL\_05

Lab Name: PNELI\_\_\_\_\_ Contract: ADV\_NUCLEAR

Lab Code: PNELI\_\_ Case No.: 2636\_\_ SAS No.: \_\_\_\_\_ SDG No.: 2636\_\_

Matrix: (soil/water) WATER\_ Lab Sample ID: 2636-08\_\_\_\_\_

Sample wt/vol: \_\_5.0 (g/mL) ML\_\_ Lab File ID: A5092\_\_\_\_\_

Level: (low/med) LOW\_\_\_ Date Received: 09/06/90

% Moisture: not dec. \_\_\_\_ Date Analyzed: 09/13/90

Column: (pack/cap) CAP\_\_\_ Dilution Factor: 1.0\_\_\_\_\_

| CAS NO.      | COMPOUND             | CONCENTRATION UNITS: |   |
|--------------|----------------------|----------------------|---|
|              |                      | (ug/L or ug/Kg) UG/L | Q |
| 79-01-6----- | Trichloroethene_____ | 23                   |   |

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000013

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

WELL\_05

Lab Name: PNELI\_\_\_\_\_ Contract: ADV\_NUCLEAR  
Lab Code: PNELI\_\_ Case No.: 2636\_\_ SAS No.: \_\_\_\_\_ SDG No.: 2636\_\_  
Matrix: (soil/water) WATER\_ Lab Sample ID: 2636-08\_\_\_\_\_  
Sample wt/vol: \_\_5.0 (g/mL) ML\_\_ Lab File ID: A5092\_\_\_\_\_  
Level: (low/med) LOW\_\_\_ Date Received: 09/06/90  
% Moisture: not dec. \_\_\_\_ Date Analyzed: 09/13/90  
Column (pack/cap) CAP\_\_\_ Dilution Factor: 1.0\_\_\_\_\_

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L\_

Number TICs found: \_\_0

| CAS NUMBER | COMPOUND NAME | RT    | EST. CONC. | U     |
|------------|---------------|-------|------------|-------|
| =====      | =====         | ===== | =====      | ===== |
|            |               |       |            |       |

Data Not Requested

000014

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

WELL\_06

Lab Name: PNELI\_\_\_\_\_ Contract: ADV\_NUCLEAR  
 Lab Code: PNELI\_\_ Case No.: 2636\_\_ SAS No.: \_\_\_\_\_ SDG No.: 2636\_\_  
 Matrix: (soil/water) WATER\_ Lab Sample ID: 2636-09\_\_\_\_\_  
 Sample wt/vol: \_\_5.0 (g/mL) ML\_\_ Lab File ID: A5093\_\_\_\_\_  
 Level: (low/med) LOW\_\_ Date Received: 09/06/90  
 % Moisture: not dec. \_\_\_\_ Date Analyzed: 09/13/90  
 Column: (pack/cap) CAP\_\_ Dilution Factor: 1.0\_\_\_\_\_

| CAS NO.      | COMPOUND             | CONCENTRATION UNITS:<br>(ug/L or ug/Kg) UG/L | D |
|--------------|----------------------|--|---|
| 79-01-6----- | Trichloroethene_____ | 12   |   |

FORM I VOA

1/87 Rev.

000015

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

WELL\_06

Lab Name: PNELI\_\_\_\_\_ Contract: ADV\_NUCLEAR  
Lab Code: PNELI\_\_ Case No.: 2636\_\_ SAS No.: \_\_\_\_\_ SDG No.: 2636\_\_  
Matrix: (soil/water) WATER\_ Lab Sample ID: 2636-09\_\_\_\_\_  
Sample wt/vol: \_\_5.0 (g/mL) ML\_\_ Lab File ID: A5093\_\_\_\_\_  
Level: (low/med) LOW\_\_\_ Date Received: 09/06/90  
% Moisture: not dec. \_\_\_\_ Date Analyzed: 09/13/90  
Column (pack/cap) CAP\_\_\_ Dilution Factor: 1.0\_\_\_\_\_

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L\_

Number TICs found: \_\_0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|----|------------|---|
|            |               |    |            |   |

Data Not Requested

000016

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

WELL\_07

Lab Name: PNELI\_\_\_\_\_ Contract: ADV\_NUCLEAR  
Lab Code: PNELI\_\_ Case No.: 2636\_\_ SAS No.: \_\_\_\_\_ SDG No.: 2636\_\_  
Matrix: (soil/water) WATER\_ Lab Sample ID: 2636-10\_\_\_\_\_  
Sample wt/vol: \_\_5.0 (g/mL) ML\_\_ Lab File ID: A5094\_\_\_\_\_  
Level: (low/med) LOW\_\_\_ Date Received: 09/06/90  
% Moisture: not dec. \_\_\_\_ Date Analyzed: 09/13/90  
Column: (pack/cap) CAP\_\_\_ Dilution Factor: 1.0\_\_\_\_\_

| CAS NO. | COMPOUND        | CONCENTRATION UNITS: |   |
|---------|-----------------|----------------------|---|
|         |                 | (ug/L or ug/Kg) UG/L | 0 |
| 79-01-6 | Trichloroethene | 17                   |   |

FORM I VOA

1/87 Rev.

000017

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

WELL\_07

Lab Name: PNELI\_\_\_\_\_ Contract: ADV\_NUCLEAR  
Lab Code: PNELI\_\_ Case No.: 2636\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: 2636\_\_  
Matrix: (soil/water) WATER\_ Lab Sample ID: 2636-10\_\_\_\_\_  
Sample wt/vol: \_\_5.0 (g/mL) ML\_\_ Lab File ID: A5094\_\_\_\_\_  
Level: (low/med) LOW\_\_\_ Date Received: 09/06/90  
% Moisture: not dec. \_\_\_\_ Date Analyzed: 09/13/90  
Column (pack/cap) CAP\_\_\_ Dilution Factor: 1.0\_\_\_\_\_

CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

Number TICs found: \_\_0 .

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|----|------------|---|
|            |               |    |            |   |

Data Not Requested

000018

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIP\_BLANK

Lab Name: PNELI\_\_\_\_\_ Contract: ADV\_NUCLEAR  
Lab Code: PNELI\_\_ Case No.: 2636\_\_ SAS No.: \_\_\_\_\_ SDG No.: 2636\_\_  
Matrix: (soil/water) WATER\_ Lab Sample ID: 2636-11\_\_\_\_\_  
Sample wt/vol: \_\_\_5.0 (g/mL) ML\_\_ Lab File ID: A5095\_\_\_\_\_  
Level: (low/med) LOW\_\_\_ Date Received: 09/06/90  
% Moisture: not dec. \_\_\_\_ Date Analyzed: 09/13/90  
Column: (pack/cap) CAP\_\_\_ Dilution Factor: 1.0\_\_\_\_\_

| CAS NO. | COMPOUND        | CONCENTRATION UNITS:<br>(ug/L or ug/Kg) UG/L | Q |
|---------|-----------------|--|---|
| 79-01-6 | Trichloroethene | 5  | U |

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1/87 Rev.

000019

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TRIP\_BLANK

Lab Name: PNELI\_\_\_\_\_ Contract: ADV\_NUCLEAR  
Lab Code: PNELI\_\_ Case No.: 2636\_\_ SAS No.: \_\_\_\_\_ SDG No.: 2636\_\_  
Matrix: (soil/water) WATER\_ Lab Sample ID: 2636-11\_\_\_\_\_  
Sample wt/vol: \_\_5.0 (g/mL) ML\_\_ Lab File ID: A5095\_\_\_\_\_  
Level: (low/med) LOW\_\_\_ Date Received: 09/06/90  
% Moisture: not dec. \_\_\_\_ Date Analyzed: 09/13/90  
Column (pack/cap) CAP\_\_\_ Dilution Factor: 1.0\_\_\_\_\_

Number TICs found: \_\_0  
CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L\_\_

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|----|------------|---|
|            |               |    |            |   |

Data Not Requested

y

000020

## Meeting at ANF

10/15/90

| <u>Name</u>          | <u>Company</u>         | <u>Telephone</u> |
|----------------------|------------------------|------------------|
| C.W. Malody          | Advanced Nuclear fuels | 375-8537         |
| R. K. Stewart -      | DOE-RL                 | 376-6192         |
| Dave Einan           | US EPA Hanford         | 376-3883         |
| Wendell L. Greenwald | Corps of Engineers     |                  |
| Steven W. Clark      | Westinghouse           | 376-1513         |
| Steve Lockhaven      | ANF                    | 375-8228         |