0058293

Battelle
Putting Technology To Work
Pacific Northwest National Laboratory
902 Battelle Boulevard
P.O. Box 999
Richland, Washington 99352

# FACSIMILE TRANSMITTAL

DATE: 10-4-02

To: Joan Kessner
Company: BHI
City/State: Richland, WA.
Facsimile #: 1-425-969-4823
Telephone #:

From: S. Bivins
PNNL
Facsimile #: 372-1484
Telephone #: 376-3198

**Transmittal Consists of [ 5 ] Page(s) including cover page.**

*COMMENTS :*

(600.031)
sdg-27nl0080
emailed to mike

RECEIVED
NOV 12 2002
EDMC

RECEIVED
OCT 2002

EA-1950-231 (4/96)

ID:NI-63 LS6500-2 25 SEP 2002 12:56

USER: 4 COMMENT:SN7069514

PRESET TIME : 2.00

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| DATA CALC : | SL DPM | HH | :YES | SAMPLE REPEATS: | 1 | PRINTER | :EDIT |
| COUNT BLANK : | NO | IC# | : NO | REPLICATES : | 1 | RS232 | : OFF |
| TWO PHASE : | NO | AQC | : NO | CYCLE REPEATS : | 1 | DISK | : OFF |
| SCINTILLATOR: | LTQUTD | LUMEX | : NO | LOW SAMPLE REJ: | 0 | RWM LIST | : OFF |
| LOW LEVEL : | NO | HALF LIFE CORRECTION DATE: | | | | none | |

BHI/100F
9-25-02

ISOTOPE 1: NI-63 %ERROR: 0.00 FACTOR: 1.000000 BKG. SUB: 33
WIDE OPEN WINDOW %ERROR: 0.00 FACTOR: 1.000000 BKG. SUB: 67

Run #3941

BACKGROUND QUENCH CURVE: Off COLOR QUENCH CORRECTION: Off

Quench Limits Low:49.120 High:342.31

| SAM NO | POS | TIME MIN | HH | NI-63 CPM | NI-63 %ERROR | WIDE CPM | WIDE %ERROR | NI-63 DPM | NI-63 EFF-1 | LUMEX % | ELAPSED TIME | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 19-1 | 2.00 | 58.9 | 8.76 | 104.00 | 9.86 | 125.45 | 11.56 | 75.75 | 6.34 | 2.48 | BLANK |
| | | WARNING: QUENCH VALUE IS OUTSIDE QUENCH LIMIT | | | | | | | | | | |
| 2 | 19-2 | 2.00 | 82.0 | 0.00 | 1.E+06 | 1.86 | 629.28 | 0.00 | 77.83 | 1.72 | 5.03 | J00521 |
| 3 | 19-3 | 2.00 | 98.6 | 7.76 | 305.30 | 4.86 | 246.05 | 3.91 | 70.60 | 1.11 | 7.58 | J00522 |
| 4 | 19-4 | 2.00 | 110.4 | 0.00 | 1.E+06 | 0.00 | 1.E+06 | 0.00 | 68.93 | 1.03 | 10.14 | J00523 |
| 5 | 19-5 | 2.00 | 99.9 | 0.00 | 1.E+06 | 6.36 | 189.98 | 0.00 | 70.42 | 7.64 | 12.68 | J00524 |
| 6 | 19-6 | 2.00 | 96.6 | 6.76 | 131.48 | 8.86 | 138.69 | 9.54 | 70.87 | 1.58 | 15.26 | J00525 |
| 7 | 19-7 | 2.00 | 84.1 | 0.00 | 1.E+06 | 0.00 | 1.E+06 | 0.00 | 72.54 | 1.05 | 17.82 | J00526 |
| 8 | 19-8 | 2.00 | 87.3 | 0.00 | 1.E+06 | 5.86 | 205.49 | 0.00 | 72.12 | 0.96 | 20.37 | J00527 |
| 9 | 19-9 | 2.00 | 84.6 | 0.00 | 1.E+06 | 3.86 | 307.63 | 0.00 | 72.48 | 1.07 | 22.94 | J00528 |
| 10 | 19-10 | 2.00 | 95.6 | 5.76 | 152.34 | 6.36 | 189.98 | 8.11 | 71.01 | 0.77 | 25.52 | J00529 |
| 11 | 19-11 | 2.00 | 82.8 | 0.00 | 1.E+06 | 0.00 | 1.E+06 | 0.00 | 72.72 | 1.08 | 28.08 | J00530 |

ID: DAILY SOURCE 25 SEP 2002 12:55

USER: 8 COMMENT: LSC#2 USE UNQ C14 DIVIDEBY10

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| PRESET TIME : | 0.10 | | | | | | |
| DATA CALC : | CPM | H# | :YES | SAMPLE REPEATS: | 1 | PRINTER | :EDIT |
| COUNT BLANK : | NO | IC# | : NO | REPLICATES : | 1 | RS232 | : OFF |
| TWO PHASE : | NO | AQC | :YES | CYCLE REPEATS : | 1 | DISK | : OFF |
| SCINTILLATOR: | LIQUID | LUMEX: NO | | LOW SAMPLE REJ: | 0 | RWM LIST | : OFF |
| LOW LEVEL : | NO | HALF LIFE CORRECTION DATE: | | | | none | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| ISOTOPE 1: | 14C | %ERROR: 0.00 | FACTOR: | 1.000000 | BKG. SUB: | 0 |
| WIDE OPEN WINDOW | | %ERROR: 0.00 | FACTOR: | 1.000000 | BKG. SUB: | 0 |

ALPHA-BETA DISCRIMINATION: NO

| SAM NO | POS | TIME MIN | H# | 14C CPM | 14C %ERROR | WIDE CPM | WIDE %ERROR | LUMEX % | ELAPSED TIME |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5-1 | 0.10 | 2.1 | 92930.00 | 2.07 | 93540.00 | 2.07 | 0.00 | 0.54 |

SOURCE DIC 9-25-02

| Bechtel Hanford Inc. | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | B00-031-022 | Page 1 of 2 |
|---|---|---|---|
| Collector: MT Stankovich / T. Elason | Company Contact: Mike Stankovich; Telephone No.: 509-531-7620 | Project Coordinator: TRENT, SJ | Price Code: Air Quality — Data Turnaround: 7 Days |
| Project Designation: 100 F Area - Other Solid (quick turn) | Sampling Location: 100F Equipment | SAF No.: B00-031 | |
| Ice Chest No.: ERC 97-073 | Field Logbook No.: EI-1535-6; COA: R11FX12000 | Method of Shipment: Hand Delievered/Gov't Vehicle | |
| Shipped To: PNNL Building 326 | Offsite Property No.: NA | Bill of Lading/Air Bill No.: NA | |

**POSSIBLE SAMPLE HAZARDS/REMARKS**

*Radioactive*

**Special Handling and/or Storage**

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Preservation | None | | | | | | | | | | |
| Type of Container | G | | | | | | | | | | |
| No. of Container(s) | 1 | | | | | | | | | | |
| Volume | 3Kg | | | | | | | | | | |
| SAMPLE ANALYSIS | Low Energy Beta - Screen (Nickel-63) | | | | | | | | | | |
| Sample No. / Matrix * / Sample Date / Sample Time | | | | | | | | | | | |
| J00521 / OTHER SOLID / 9-23-02 / 1245 | ✓ | | | | | | | | | | |
| J00522 / OTHER SOLID / 9-23-02 / 1245 | ✓ | | | | | | | | | | |
| J00523 / OTHER SOLID / 9-23-02 / 1245 | ✓ | | | | | | | | | | |
| J00524 / OTHER SOLID / 9-23-02 / 1245 | ✓ | | | | | | | | | | |
| J00525 / OTHER SOLID / 9-23-02 / 1245 | ✓ | | | | | | | | | | |

**CHAIN OF POSSESSION** — Sign/Print Names

| Relinquished By/Removed From | Date/Time | Received By/Stored In | Date/Time |
|---|---|---|---|
| Terry S. Elason | 9-24-02 / 0935 | MS Stankovich | 9-24-02 / 0935 |
| MS Stankovich | 9-24-02 / 1500 | 3B/3728 | 9-24-02 / 1500 |
| Ref 3B 3728 | 9-25-02 / 1100 | R. Fellh | 9-24-02 / 1100 |
| R. Fellh / R. Wilberg | 9-25-02 / 1115 | J. Ferrito | 9-25-02 / 1115 |
| | | | |
| | | | |

**SPECIAL INSTRUCTIONS**

Personnel not available to relinquish samples from the 3728 Ref # 3B on 9/25/02

**Matrix ***

S=Soil
SE=Sediment
SC=Solid
SL=Sludge
W=Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
WI=Wipe
L=Liquid
V=Vegetation
X=Other

| LABORATORY SECTION | Received By | Title | Date/Time |
|---|---|---|---|
| FINAL SAMPLE DISPOSITION | Disposal Method | Disposed By | Date/Time |

BHI-EE-011 (03/01/2002)

Oct 04 02 01:25p

p.4

| Bechtel Hanford Inc. | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | B00-031-022 | Page 2 of 2 |
|---|---|---|---|

| | | | |
|---|---|---|---|
| Collector<br>MT Stankovich / T. Elason | Company Contact<br>Mike Stankovich | Telephone No.<br>509-531-7620 | Project Coordinator<br>TRENT, SJ |
| Project Designation<br>100 F Area - Other Solid (quick turn) | Sampling Location<br>100F Equipment | | SAF No.<br>B00-031 |
| Ice Chest No.<br>ERC 97-079 | Field Logbook No.<br>EL-1535-6 | COA<br>R11FX12000 | Method of Shipment<br>Hand Delievered/Gov't Vehicle |
| Shipped To<br>PNNL Building 326 | Offsite Property No.<br>NA | | Bill of Lading/Air Bill No.<br>NA |

Price Code: Air Quality —

Data Turnaround: 7 Days

POSSIBLE SAMPLE HAZARDS/REMARKS

*Radioactive*

Special Handling and/or Storage

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Preservation | None | | | | | | | | | | |
| Type of Container | G | | | | | | | | | | |
| No. of Container(s) | 1 | | | | | | | | | | |
| Volume | 30g | | | | | | | | | | |
| SAMPLE ANALYSIS | Low Energy Beta - Screen (Nickel-63) | | | | | | | | | | |

| Sample No. | Matrix * | Sample Date | Sample Time | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J00526 | OTHER SOLID | 9-23-02 | 1245 | — | | | | | | | | | |
| J00527 | OTHER SOLID | 9-23-02 | 1245 | — | | | | | | | | | |
| J00528 | OTHER SOLID | 9-23-02 | 1245 | — | | | | | | | | | |
| J00529 | OTHER SOLID | 9-23-02 | 1245 | — | | | | | | | | | |
| J00530 | OTHER SOLID | 9-23-02 | 1245 | — | | | | | | | | | |

| CHAIN OF POSSESSION | Sign/Print Names | | |
|---|---|---|---|
| Relinquished By/Removed From | Date/Time | Received By/Stored In | Date/Time 0935 |
| Terry S. Elason / Terry S. Elason | 9-24-02 / 0935 | MS Stankovich | 9-24-02 |
| Relinquished By/Removed From | Date/Time | Received By/Stored In | Date/Time |
| MS Stankovich | 9-24-02 0500 | 3B / 3728 | 9-24-02 1500 |
| Relinquished By/Removed From | Date/Time | Received By/Stored In | Date/Time 1100 |
| 3B / 3728 | 9-25-02 1100 | R. Fahlberg | 9-25-02 |
| Relinquished By/Removed From ERC | Date/Time 1115 | Received By/Stored In PNNL | Date/Time |
| R. Fahlberg | 9-25-02 | J. Ferry / J. Francis | 9-25-02 1115 |
| Relinquished By/Removed From | Date/Time | Received By/Stored In | Date/Time |
| Relinquished By/Removed From | Date/Time | Received By/Stored In | Date/Time |

SPECIAL INSTRUCTIONS

Personnel not available to relinquish samples from the 3728 Ref # 3B on 9-25-02

Matrix *

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O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
WI=Wipe
L=Liquid
V=Vegetation
X=Other

| LABORATORY SECTION | Received By | Title | Date/Time |
|---|---|---|---|
| FINAL SAMPLE DISPOSITION | Disposal Method | Disposed By | Date/Time |

BHI-EE-011 (03/01/2002)