

0051996

Environmental Restoration Contractor **ERC Team**
Interoffice Memorandum

Job No. 22192
Written Response Required? NO
Closes CCN: N/A
OU: 200-UP-1
TSD: N/A
ERA: N/A
Subject Code: 8630

TO: C. D. Wittreich, H6-02

DATE: November 13, 1995

COPIES: See Below

FROM: Duane Jacques
Analytical Services/Field Services
H6-04/372-9400

45092

SUBJECT: 200-UP-1 IRM IMPLEMENTATION SAMPLING, MONTHLY GROUNDWATER RESULTS, OCTOBER 1995, REV 0

REFERENCES:

1. BHI, 1995a, *Field Screening (On-Site Measurements) Quality Assurance Plan*, BHI-EE-08, Bechtel Hanford, Inc., Richland, Washington.
2. BHI, 1995b, *Field Screening Procedures*, BHI-EE-05, Bechtel Hanford, Inc., Richland, Washington.
3. BHI, 1995, *200-UP-1 Field Screening Support Logbook*, EL-1277, Bechtel Hanford, Inc., Richland, Washington.
4. ChemChek, 1994, *Operation and Service Manual, Kinetic Phosphorescence Analyzer KPA-11*, ChemChek Instruments, Inc., Richland, Washington.

This data package contains field screening results for groundwater samples analyzed to support the 200-UP-1 IRM Implementation Sampling program. The Quality Assurance level for this work corresponds to QA-2 as specified in the reference 1 (BHI 1995a). The samples were managed under SAF B96-003.

Attachment 1 contains Volatile Organic Compound (VOC) and total uranium results for groundwater samples collected to support the referenced project. The VOC results were generated using a Photovac 10S Plus portable gas chromatograph in accordance with Field Screening Procedure (FSP) 1.1, *Aqueous Headspace Analysis of Volatile Organic Compounds in Water* (BHI 1995b). Information concerning operation of the gas chromatograph is contained in the instrument logbook EL-1264.



C. D. Wittreich, H6-02
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The total uranium results were generated using a ChemChek KPA-11 Kinetic Phosphorescence Analyzer. The KPA-11 was calibrated and operated in accordance with the instrument operating manual (ChemChek 1994). Information concerning use of the Chemchek KPA-11 as well as preparation of VOC calibration standards and samples is contained in the referenced field logbook EL-1277, pages 9 through 18.

Please contact me if you have any questions on this information.

Duane Jacques

Duane Jacques, Scientist

QA Review by: *Paul E Duerksen*

IDJ: idj

Attachments: Attachment 1. 200-UP-1 IRM Implementation Sampling, Monthly Groundwater Results, October 1995
Attachment 2. Sample Chain of Custody Sheets

Copies:

- Analytical Services Project Files X2-10, w/a
- F. W. Gustafson H6-05, w/attachment 1 only
- [REDACTED] 81-35**
- R. O. Mahood, H6-05, w/attachment 1 only
- IDJ - File, w/attachment 1 only
- BHI Document Control H4-79, w/a

NOTIFY SENDER OF
NEW/CORRECT MAIL
NUMBER (MSIN)

200-UP-1 IRM Implementation Sampling
Monthly Groundwater Results, October 1995
SAF B96-003

| Sample Location | HEIS Number | Sample Date | Analysis Date | Chloroform (µg/L) | Carbon TetraCl (µg/L) | TCE (µg/L) | Uranium (µg/L) |
|--------------------------|-------------|-------------|---------------|-------------------|-----------------------|------------|----------------|
| 299-W19-20 | BOGRC2 | 10/30/95 | 10/31/95 | <4.0 | 51 | <2.0 | NA |
| 299-W19-20 | BOGRC1 | 10/30/95 | 10/31/95 | NA | NA | NA | 32 |
| 299-W19-23 | BOGRC5 | 10/31/95 | 10/31/95 | 2.3u | 140 | 2.0 | NA |
| 299-W19-23 | BOGRC4 | 10/31/95 | 10/31/95 | NA | NA | NA | 360 |
| 299-W19-24 | BOGRC8 | 10/31/95 | 10/31/95 | <4.0 | 170 | 4.7 | NA |
| 299-W19-24 | BOGRC7 | 10/31/95 | 10/31/95 | NA | NA | NA | 2170 |
| 299-W19-28 | BOGRD4 | 11/6/95 | 11/9/95 | <4.0 | 170 | 5.3 | NA |
| 299-W19-28 | BOGRD3 | 11/6/95 | 11/9/95 | NA | NA | NA | 2570 |
| 299-W19-29 | BOGRD7 | 10/25/95 | 10/27/95 | <4.0 | 39 | 0.83u | NA |
| 299-W19-29 | BOGRD6 | 10/25/95 | 10/31/95 | NA | NA | NA | 1600 |
| 299-W19-30 | BOGRF0 | 10/30/95 | 10/31/95 | <4.0 | 160 | <2.0 | NA |
| 299-W19-30 | BOGRD9 | 10/30/95 | 10/31/95 | NA | NA | NA | 600 |
| 299-W19-34A | BOGRF3 | 10/25/95 | 10/27/95 | 9.3 | 54 | 2.3 | NA |
| 299-W19-34A | BOGRF2 | 10/25/95 | 10/31/95 | NA | NA | NA | 1.0 |
| 299-W19-37 | BOGRF6 | 10/26/95 | 10/27/95 | 5.9 | 140 | <2.0 | NA |
| 299-W19-37 | BOGRF5 | 10/26/95 | 10/31/95 | NA | NA | NA | 3150 |
| 299-W19-38 | BOGRF9 | 10/27/95 | 10/27/95 | 6.8 | 37 | <2.0 | NA |
| 299-W19-38 | BOGRF8 | 10/27/95 | 10/31/95 | NA | NA | NA | 250 |
| 299-W19-40 | BOGRG2 | 10/27/95 | 10/27/95 | 5.4 | 26 | 2.1 | NA |
| 299-W19-40 | BOGRG1 | 10/27/95 | 10/31/95 | NA | NA | NA | 290 |
| Duplicate @ 299-W19-40 | BOGRG5 | 10/27/95 | 10/27/95 | 5.4 | 27 | 2.3 | NA |
| Duplicate @ 299-W19-40 | BOGRG4 | 10/27/95 | 10/31/95 | NA | NA | NA | 280 |
| Field Blank @ 299-W19-40 | BOGRG8 | 10/27/95 | 10/27/95 | <4.0 | <2.0 | <2.0 | NA |
| Field Blank @ 299-W19-40 | BOGRG7 | 10/27/95 | 10/31/95 | NA | NA | NA | <1.0 |
| Trip Blank | BOGRG9 | 10/25/95 | 10/27/95 | <4.0 | <2.0 | <2.0 | NA |
| Trip Blank | BOGRH0 | 10/26/95 | 10/27/95 | <4.0 | <2.0 | <2.0 | NA |
| Trip Blank | BOGRH1 | 10/27/95 | 10/27/95 | <4.0 | <2.0 | <2.0 | NA |
| Trip Blank | BOGRH2 | 10/30/95 | 10/31/95 | <4.0 | <2.0 | <2.0 | NA |
| Trip Blank | BOGRH3 | 10/31/95 | 10/31/95 | <4.0 | <2.0 | <2.0 | NA |
| Trip Blank | BOGRH4 | 11/6/1995 | 11/9/95 | <4.0 | <2.0 | <2.0 | NA |

NA - Not Analyzed

u - Value less than practical quantitation limit

VOA Analyst:

Duane Jacques
 I. D. Jacques

VOA Instrument: Photovac 10S Plus GC, Serial # BJDG203
 Method: 5 mL/min HP Air, 11.7 eV lamp, 250 uL injection
 Logbook: Photovac Instrument Log, EL-1264, pgs 42, 43, 46

Uranium Analyst:

Richard B. Kerkow
 R. B. Kerkow

Uranium Instrument: ChemChek KPA-11, Serial # 9445050065
 Method: Kinetic Phosphorescence
 Logbook: 200-UP-1 Project Log, EL-1277, pgs 13,14,22

Bechtel Hanford, Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Data Turnaround

- Priority
 Normal

| | | |
|---|--------------------------------------|--------------------------------------|
| Collector <i>A. Rizzo</i> | Company Contact C. D. Wittreich | Telephone (509) 372-9315 |
| Project Designation 200-UP-1 IRM Implementation Sampling - Round 1 | Sampling Location 200 West | SAF No. B96-003 |
| Ice Chest No. | Field Logbook No. <i>EFZ-1135</i> | Method of Shipment Hand Delivered |
| Shipped To Duane Jacques | Offsite Property No. NA | Bill of Lading/Air Bill No. NA |

| | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|--|--------------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Possible Sample Hazards/Remarks | Preservation | None | | | | | | | | | | | | | | | | | | |
| | Type of Container | Gs | | | | | | | | | | | | | | | | | | |
| | No. of Container(s) | 1 | | | | | | | | | | | | | | | | | | |
| | Special Handling and/or Storage Maintain samples between 2°C and 6°C. | Volume | 40mL | | | | | | | | | | | | | | | | | |
| SAMPLE ANALYSIS | | VOA - TCL | | | | | | | | | | | | | | | | | | |

| Sample No. | Matrix* | Date Sampled | Time Sampled | | | | | | | | | | | | | | | | | |
|------------|---------|--------------|--------------|---|----------|-----------|----------|------|--|--|--|--|--|--|--|--|--|--|--|--|
| B06 RCL2 | W | 10-30-95 | 1105 | Y | TCM = ND | CC14 = 51 | TCE = ND | ug/L | | | | | | | | | | | | |
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|---------------------|---|-----------------------------------|---|-----------------------------------|--|--|--|--|--|--|--|--|---|--|--|
| CHAIN OF POSSESSION | Sign/Print Names | | SPECIAL INSTRUCTIONS Hold all VOA samples at 4701-C until project is completed. Then deliver to Duane Jacques. | | | | | | | | | | Matrix* S - Soil SE - Sediment SO - 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 | | |
| | Relinquished By <i>AG Rizzo (FR)</i> | Date/Time <i>10-31-95 1025</i> | Received By <i>D. Jacques</i> | Date/Time <i>10-31-95 1025</i> | | | | | | | | | | | |
| | Relinquished By | Date/Time | Received By | Date/Time | | | | | | | | | | | |
| | Relinquished By | Date/Time | Received By | Date/Time | | | | | | | | | | | |

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

Bechtel Hanford, Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Data Turnaround
 Priority
 Normal

| | | |
|--|--------------------------------------|--------------------------------------|
| Director <i>A. Rizzo</i> | Company Contact C. D. Wittreich | Telephone (509) 372-9315 |
| Project Designation MO-UP-1 IRM Implementation Sampling - Round 1 | Sampling Location 200 West | SAF No. B96-003 |
| Chest No. | Field Logbook No. <i>SEZ-1135</i> | Method of Shipment Hand Delivered |
| Shipped To Frank Gustafson | Offsite Property No. NA | Bill of Lading/Air Bill No. NA |

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|---------------------------------|--|--------|---------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Possible Sample Hazards/Remarks | Preservation | None | | | | | | | | | | | | | | | | | | |
| | Type of Container | P/G | | | | | | | | | | | | | | | | | | |
| | No. of Container(s) | 1 | | | | | | | | | | | | | | | | | | |
| | Special Handling and/or Storage Maintain samples between 2°C and 6°C. | Volume | 20mL | | | | | | | | | | | | | | | | | |
| SAMPLE ANALYSIS | | | Total Uranium | | | | | | | | | | | | | | | | | |

| Sample No. | Matrix* | Date Sampled | Time Sampled | | | | | | | | | | | | | | | | | | |
|------------|---------|--------------|--------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 0GRCL | W | 10-30-95 | 1105 | Y | | | | | | | | | | | | | | | | | |
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| CHAIN OF POSSESSION | | Sign/Print Names | |
|-------------------------------|----------------------|----------------------------------|------------------------|
| Relinquished By <i>AC-102</i> | Date/Time | Received By <i>D. D. Jacques</i> | Date/Time <i>10-25</i> |
| <i>AG-Rizzo (ERU)</i> | <i>10/31/95 1025</i> | <i>D. D. Jacques</i> | <i>10-31-95</i> |
| Relinquished By | Date/Time | Received By | Date/Time |
| Relinquished By | Date/Time | Received By | Date/Time |
| Relinquished By | Date/Time | Received By | Date/Time |

SPECIAL INSTRUCTIONS
Deliver samples to Frank Gustafson.

FIELD SAMPLE COPY

Matrix*
 S = Soil
 SE = Sediment
 SO = 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

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

Data Turnaround
 Priority
 Normal

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|---|--------------------------------------|--------------------------------------|
| Collector <i>A. Rizzo</i> | Company Contact C. D. Wittreich | Telephone (509) 372-9315 |
| Project Designation 200-UP-1 IRM Implementation Sampling - Round 1 | Sampling Location 200 West | SAF No. B96-003 |
| Ice Chest No. | Field Logbook No. <i>EFL-1135</i> | Method of Shipment Hand Delivered |
| Shipped To Duane Jacques | Offsite Property No. NA | Bill of Lading/Air Bill No. NA |

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|---------------------------------|--|--------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Possible Sample Hazards/Remarks | Preservation | None | | | | | | | | | | | | | | | | | | |
| | Type of Container | Gs | | | | | | | | | | | | | | | | | | |
| | No. of Container(s) | 1 | | | | | | | | | | | | | | | | | | |
| | Special Handling and/or Storage Maintain samples between 2°C and 6°C. | Volume | 40mL | | | | | | | | | | | | | | | | | |

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| SAMPLE ANALYSIS | | | | VOA - TCL | | | | | | | | | | | | | | | |
|-----------------|--|--|--|--------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

| Sample No. | Matrix* | Date Sampled | Time Sampled | | | | | | | | | | | | | | | | |
|------------|---------|--------------|--------------|---|-----------|------------|----------------|--|--|--|--|--|--|--|--|--|--|--|--|
| B06R05 | W | 10-31-95 | 1135 | Y | TCM = 2.3 | CCl4 = 140 | TCE = 2.0 ug/L | | | | | | | | | | | | |
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| CHAIN OF POSSESSION | Sign/Print Names | | | | SPECIAL INSTRUCTIONS Hold all VOA samples at 4701-C until project is completed. Then deliver to Duane Jacques. | | | | | | | | | | Matrix* S = Soil SE = Sediment SO = 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 |
| | Relinquished By <i>A. Rizzo</i> | Date/Time 10-31-95 | 1225 | Received By <i>D. Jacques</i> | | | | | | | | | | | |
| | Relinquished By | Date/Time | | Received By | | | | | | | | | | | |
| | Relinquished By | Date/Time | | Received By | | | | | | | | | | | |

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

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| Collector <i>A. Rizzo</i> | Company Contact C. D. Wittreich | Telephone (509) 372-9315 |
| Project Designation 00-UP-1 IRM Implementation Sampling - Round 1 | Sampling Location 200 West | SAF No. B96-003 |
| Site Chest No. | Field Logbook No. <i>EPL-1135</i> | Method of Shipment Hand Delivered |
| Shipped To Frank Gustafson | Offsite Property No. NA | Bill of Lading/Air Bill No. NA |

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|---------------------------------|--|--------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Possible Sample Hazards/Remarks | Preservation | None | | | | | | | | | | | | | | | | |
| | Type of Container | P/G | | | | | | | | | | | | | | | | |
| | No. of Container(s) | 1 | | | | | | | | | | | | | | | | |
| | Special Handling and/or Storage Maintain samples between 2°C and 6°C. | Volume | 20mL | | | | | | | | | | | | | | | |

SAMPLE ANALYSIS

| Sample No. | Matrix* | Date Sampled | Time Sampled | | | | | | | | | | | | | | | |
|----------------|----------|-----------------|--------------|----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| <i>BOGRCL4</i> | <i>W</i> | <i>10-31-95</i> | <i>1135</i> | <i>X</i> | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
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|---------------------|--|------------------------------|---|------------------------------|--------------------------|--|--|--|--|--|--|--|---|--|--|
| CHAIN OF POSSESSION | Sign/Print Names | | SPECIAL INSTRUCTIONS Deliver samples to Frank Gustafson. | | | | | | | | | | Matrix* S - Soil SE - Sediment SO - 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 | | |
| | Relinquished By <i>AB Rizzo (E. R.)</i> | Date/Time <i>10-31-95</i> | Received By <i>RB Kerlow</i> | Date/Time <i>12-10-95</i> | FIELD SAMPLE COPY | | | | | | | | | | |
| | Relinquished By | Date/Time | Received By | Date/Time | | | | | | | | | | | |
| | Relinquished By | Date/Time | Received By | Date/Time | | | | | | | | | | | |

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

Bechtel Hanford, Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Data Turnaround
 Priority
 Normal

| | | |
|---|--------------------------------------|--------------------------------------|
| Collector <i>A. Rizzo</i> | Company Contact C. D. Wittreich | Telephone (509) 372-9315 |
| Project Designation 200-UP-1 IRM Implementation Sampling - Round 1 | Sampling Location 200 West | SAF No. B96-003 |
| Ice Chest No. | Field Logbook No. <i>EPL-1135</i> | Method of Shipment Hand Delivered |
| Shipped To Duane Jacques | Offsite Property No. NA | Bill of Lading/Air Bill No. NA |

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|---------------------------------|--|--------|-------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Possible Sample Hazards/Remarks | Preservation | None | | | | | | | | | | | | | | | | | | |
| | Type of Container | Gs | | | | | | | | | | | | | | | | | | |
| | No. of Container(s) | 1 | | | | | | | | | | | | | | | | | | |
| | Special Handling and/or Storage Maintain samples between 2°C and 6°C. | Volume | 40mL | | | | | | | | | | | | | | | | | |
| SAMPLE ANALYSIS | | | VOA - | | | | | | | | | | | | | | | | | |
| | | | TCL | | | | | | | | | | | | | | | | | |

| Sample No. | Matrix* | Date Sampled | Time Sampled | | | | | | | | | | | | | | | | | |
|------------|---------|--------------|--------------|---|--------------|------------|-----------|------|--|--|--|--|--|--|--|--|--|--|--|--|
| BOGRCS | W | 10-31-95 | 1005 | Y | TCM = 3.9 | CCl4 = 170 | TCE = 4.7 | ug/L | | | | | | | | | | | | |
| BOGRH3 | W | 10-31-95 | 0740 | X | - No defects | | | | | | | | | | | | | | | |
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| CHAIN OF POSSESSION | Sign/Print Names | | | |
|---------------------------------|--------------------------------|----------------------------------|--------------------------------|--|
| Relinquished By <i>A. Rizzo</i> | Date/Time <i>10-31-95 1000</i> | Received By <i>D. W. Jacques</i> | Date/Time <i>10-31-95 1020</i> | |
| Relinquished By <i>AGR (ER)</i> | Date/Time | Received By <i>D. W. Jacques</i> | Date/Time <i>10-31-95</i> | |
| Relinquished By | Date/Time | Received By | Date/Time | |
| Relinquished By | Date/Time | Received By | Date/Time | |
| Relinquished By | Date/Time | Received By | Date/Time | |

SPECIAL INSTRUCTIONS
 Hold all VOA samples at 4701-C until project is completed. Then deliver to Duane Jacques.

- Matrix*
- S - Soil
 - SE - Sediment
 - SO - 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 I

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| LABORATORY SECTION | Received By | Title | Date/Time |
|--------------------|-------------|-------|-----------|

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| FINAL SAMPLE DISPOSITION | Disposal Method | Disposed By | Date/Time |
|--------------------------|-----------------|-------------|-----------|

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Data Turnaround
 Priority
 Normal

| | | |
|--|--------------------------------------|--------------------------------------|
| Director <i>A. Rizzo</i> | Company Contact C. D. Wittreich | Telephone (509) 372-9315 |
| Project Designation 10-UP-1 IRM Implementation Sampling - Round 1 | Sampling Location 200 West | SAF No. B96-003 |
| Chest No. | Field Logbook No. <i>SFL 1135</i> | Method of Shipment Hand Delivered |
| Shipped To Frank Gustafson | Offsite Property No. NA | Bill of Lading/Air Bill No. NA |

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|---------------------------------|--|--------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Possible Sample Hazards/Remarks | Preservation | None | | | | | | | | | | | | | | | | | | |
| | Type of Container | P/G | | | | | | | | | | | | | | | | | | |
| | No. of Container(s) | 1 | | | | | | | | | | | | | | | | | | |
| | Special Handling and/or Storage Maintain samples between 2°C and 6°C. | Volume | 20mL | | | | | | | | | | | | | | | | | |

SAMPLE ANALYSIS

| Sample No. | Matrix* | Date Sampled | Time Sampled | | | | | | | | | | | | | | | | | |
|------------|---------|--------------|--------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 16RC7 | W | 10-31-95 | 1005 | X | | | | | | | | | | | | | | | | |
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| CHAIN OF POSSESSION | Sign/Print Names | | | |
|--|-----------------------|----------------------------------|-----------------------|--|
| Relinquished By <i>A. Rizzo (SFL)</i> | Date/Time 10-31-95 | Received By <i>D. Jacques</i> | Date/Time 10-31-95 | |
| Relinquished By <i>A. Rizzo (SFL)</i> | Date/Time 10-31-95 | Received By <i>D. Jacques</i> | Date/Time 10-31-95 | |
| Relinquished By | Date/Time | Received By | Date/Time | |
| Relinquished By | Date/Time | Received By | Date/Time | |

SPECIAL INSTRUCTIONS
Deliver samples to Frank Gustafson.

FIELD SAMPLE COPY

Matrix*
 S = Soil
 SE = Sediment
 SO = 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 |

Bechtel Hanford, Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Data Turnaround

- Priority
 Normal

| | | |
|---|--------------------------------------|--------------------------------------|
| Collector <i>A. Rizzo</i> | Company Contact C. D. Wittreich | Telephone (509) 372-9315 |
| Project Designation 200-UP-1 IRM Implementation Sampling - Round 1 | Sampling Location 200 West | SAF No. B96-003 |
| Ice Chest No. | Field Logbook No. <i>EFL-1135</i> | Method of Shipment Hand Delivered |
| Shipped To Duane Jacques | Offsite Property No. NA | Bill of Lading/Air Bill No. NA |

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|---------------------------------|--|--------------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Possible Sample Hazards/Remarks | Preservation | None | | | | | | | | | | | | | | | | | | | |
| | Type of Container | Gs | | | | | | | | | | | | | | | | | | | |
| | No. of Container(s) | 1 | | | | | | | | | | | | | | | | | | | |
| | Special Handling and/or Storage Maintain samples between 2°C and 6°C. | Volume | 40mL | | | | | | | | | | | | | | | | | | |
| SAMPLE ANALYSIS | | VOA - TCL | | | | | | | | | | | | | | | | | | | |

| Sample No. | Matrix* | Date Sampled | Time Sampled | | | | | | | | | | | | | | | | | | |
|------------|---------|--------------------------------|--------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| BOGRD4 | W | 11-6-95 10-25-95 | 1021 | Y | | | | | | | | | | | | | | | | | |
| BOGRH4 | W | 11-6-95 | 0740 | Y | | | | | | | | | | | | | | | | | |
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No detects

TCM = 4.6 CCl4 = 208 TCE = 5.2

11/6/95

ug/L

| | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|------------------|----------------------------------|----------------------|---|--|--|--|--|--|--|--|--|---------|--|--|--|--|--|--|--|--|
| CHAIN OF POSSESSION | Sign/Print Names | | SPECIAL INSTRUCTIONS | | | | | | | | | | Matrix* | | | | | | | | |
| Relinquished By <i>A. Rizzo</i> | Date/Time | Received By <i>D. W. Jacques</i> | Date/Time | Hold all VOA samples at 4701-C until project is completed. Then deliver to Duane Jacques. | | | | | | | | | | <ul style="list-style-type: none"> S - Soil SE - Sediment SO - 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 | | | | | | | |
| <i>A. Rizzo (C.D.)</i> | <i>11-9-95</i> | <i>D. Jacques</i> | <i>0930</i> | | | | | | | | | | | | | | | | | | |
| Relinquished By | Date/Time | Received By | Date/Time | | | | | | | | | | | | | | | | | | |
| Relinquished By | Date/Time | Received By | Date/Time | | | | | | | | | | | | | | | | | | |

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

Bechtel Hanford, Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Data Turnaround

- Priority
- Normal

| | | |
|---|--------------------------------------|--------------------------------------|
| Collector <i>A. Rizzo</i> | Company Contact C. D. Wittreich | Telephone (509) 372-9315 |
| Project Designation 200-UP-1 IRM Implementation Sampling - Round 1 | Sampling Location 200 West | SAF No. B96-003 |
| Ice Chest No. | Field Logbook No. <i>EFL 1135</i> | Method of Shipment Hand Delivered |
| Shipped To Duane Jacques | Offsite Property No. NA | Bill of Lading/Air Bill No. NA |

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|---------------------------------|--|--------------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Possible Sample Hazards/Remarks | Preservation | None | | | | | | | | | | | | | | | | | | |
| | Type of Container | Gs | | | | | | | | | | | | | | | | | | |
| | No. of Container(s) | 1 | | | | | | | | | | | | | | | | | | |
| | Special Handling and/or Storage Maintain samples between 2°C and 6°C. | Volume | 40mL | | | | | | | | | | | | | | | | | |
| SAMPLE ANALYSIS | | VOA - TCL | | | | | | | | | | | | | | | | | | |

| Sample No. | Matrix* | Date Sampled | Time Sampled | | | | | | | | | | | | | | | | | | |
|------------|---------|--------------|--------------|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 80GRD7 | W | 10-25-95 | 1127 | ✓ | <i>TCM = NP, OC14 = 39, TCE = 0.83 ug/L</i> | | | | | | | | | | | | | | | | |
| 80GRG9 | W | 10-25-95 | 0740 | ✓ | <i>- No detects</i> | | | | | | | | | | | | | | | | |
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|------------------------------------|------------------------------|----------------------------------|---|--|--|--|--|--|--|--|--|--|---------|-------------------|
| CHAIN OF POSSESSION | Sign/Print Names | | SPECIAL INSTRUCTIONS Hold all VOA samples at 4701-C until project is completed. Then deliver to Duane Jacques. | | | | | | | | | | Matrix* | |
| Relinquished By <i>A. Rizzo</i> | Date/Time <i>10-27-95</i> | Received By <i>D. Jacques</i> | Date/Time <i>10-27-95</i> | | | | | | | | | | | S = Soil |
| Relinquished By <i>A. Rizzo</i> | Date/Time <i>10-27-95</i> | Received By <i>D. Jacques</i> | Date/Time <i>10-27-95</i> | | | | | | | | | | | SE = Sediment |
| Relinquished By | Date/Time | Received By | Date/Time | | | | | | | | | | | SO = Solid |
| Relinquished By | Date/Time | Received By | Date/Time | | | | | | | | | | | SL = Sludge |
| Relinquished By | Date/Time | Received By | Date/Time | | | | | | | | | | | W = Water |
| Relinquished By | Date/Time | Received By | Date/Time | | | | | | | | | | | O = Oil |
| Relinquished By | Date/Time | Received By | Date/Time | | | | | | | | | | | A = Air |
| Relinquished By | Date/Time | Received By | Date/Time | | | | | | | | | | | DS = Drum Solids |
| Relinquished By | Date/Time | Received By | Date/Time | | | | | | | | | | | DL = Drum Liquids |
| Relinquished By | Date/Time | Received By | Date/Time | | | | | | | | | | | T = Tissue |
| Relinquished By | Date/Time | Received By | Date/Time | | | | | | | | | | | WI = Wipe |
| Relinquished By | Date/Time | Received By | Date/Time | | | | | | | | | | | L = Liquid |
| Relinquished By | Date/Time | Received By | Date/Time | | | | | | | | | | | V = Vegetation |
| Relinquished By | Date/Time | Received By | Date/Time | | | | | | | | | | | X = Other |

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| - LABORATORY SECTION | Received By | Title | Date/Time |
|----------------------|-------------|-------|-----------|

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| FINAL SAMPLE DISPOSITION | Disposal Method | Disposed By | Date/Time |
|--------------------------|-----------------|-------------|-----------|

Date Turnaround

- Priority
- Normal

| | | |
|---|--------------------------------------|--------------------------------------|
| Collector <i>A. Rizzo</i> | Company Contact C. D. Wittreich | Telephone (509) 372-9315 |
| Project Designation 200-UP-1 IRM Implementation Sampling - Round 1 | Sampling Location 200 West | SAF No. B96-003 |
| Ice Chest No. | Field Logbook No. <i>EFL-1135</i> | Method of Shipment Hand Delivered |
| Shipped To Frank Gustafson | Offsite Property No. NA | Bill of Lading/Air Bill No. NA |

| | | | | | | | | | | |
|---------------------------------|--|---------------|------|--|--|--|--|--|--|--|
| Possible Sample Hazards/Remarks | Preservation | None | | | | | | | | |
| | Type of Container | P/G | | | | | | | | |
| | No. of Container(s) | 1 | | | | | | | | |
| | Special Handling and/or Storage Maintain samples between 2°C and 6°C. | Volume | 20mL | | | | | | | |
| SAMPLE ANALYSIS | | Total Uranium | | | | | | | | |

| Sample No. | Matrix* | Date Sampled | Time Sampled | | | | | | | |
|------------|---------|--------------|--------------|---|--|--|--|--|--|--|
| BOGR06 | W | 10-25-95 | 1127 | 8 | | | | | | |
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| CHAIN OF POSSESSION | Sign/Print Names | SPECIAL INSTRUCTIONS Deliver samples to Frank Gustafson. | Matrix* |
| Relinquished By <i>A.G. Rizzo (S&ES)</i> | Date/Time 1305 10-27-95 | Received By <i>D. N. Jacques</i> | <p style="font-size: 2em; text-align: center;">FIELD SAMPLE COPY</p> <ul style="list-style-type: none"> S - Soil SE - Sediment SO - Solid SL - Sludge W - Water O - Oil A - Air DS - Drum Solids DL - Drum Liquid T - Tissue WI - Wipe L - Liquid V - Vegetation X - Other |
| Relinquished By | Date/Time | Received By | |
| Relinquished By | Date/Time | Received By | |
| Relinquished By | Date/Time | Received By | |

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

Bechtel Hanford, Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Data Turnaround

- Priority
 Normal

| | | |
|---|------------------------------------|--------------------------------------|
| Collector <i>A. Rizzo</i> | Company Contact C. D. Wittreich | Telephone (509) 372-9315 |
| Project Designation 200-UP-1 IRM Implementation Sampling - Round 1 | Sampling Location 200 West | SAF No. B96-003 |
| Ice Chest No. | Field Logbook No. | Method of Shipment Hand Delivered |
| Shipped To Duane Jacques | Offsite Property No. NA | Bill of Lading/Air Bill No. NA |

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|---------------------------------|--|--------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Possible Sample Hazards/Remarks | Preservation | None | | | | | | | | | | | | | | | | | | |
| | Type of Container | Gs | | | | | | | | | | | | | | | | | | |
| | No. of Container(s) | 1 | | | | | | | | | | | | | | | | | | |
| | Special Handling and/or Storage Maintain samples between 2°C and 6°C. | Volume | 40mL | | | | | | | | | | | | | | | | | |

SAMPLE ANALYSIS

10/31/95
ADD

| Sample No. | Matrix* | Date Sampled | Time Sampled | | | | | | | | | | | | | | | | | | |
|------------|---------|--------------|--------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| B06RF0 | W | 10.30.95 | 1007 | Y | TCM = None Detect CD14 = 160 TCE = ND ug/L | | | | | | | | | | | | | | | | |
| B06RH2 | W | 10.30.95 | 0740 | Y | - No detects | | | | | | | | | | | | | | | | |
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|---------------------------------|------------------------|-------------------------------|------------------------|---|--|--|--|--|--|--|--|--|--|--|--|
| CHAIN OF POSSESSION | | Sign/Print Names | | SPECIAL INSTRUCTIONS Hold all VOA samples at 4701-C until project is completed. Then deliver to Duane Jacques. | | | | | | | | | | Matrix* | |
| Relinquished By <i>A. Rizzo</i> | Date/Time <i>10/25</i> | Received By <i>D. Jacques</i> | Date/Time <i>10/25</i> | | | | | | | | | | | <ul style="list-style-type: none"> S - Soil SE - Sediment SO - 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 I | |
| <i>A. Rizzo (E.R.)</i> | <i>10-31-95</i> | <i>D. Jacques</i> | <i>10-31-95</i> | | | | | | | | | | | | |
| Relinquished By | Date/Time | Received By | Date/Time | | | | | | | | | | | | |
| Relinquished By | Date/Time | Received By | Date/Time | | | | | | | | | | | | |
| Relinquished By | Date/Time | Received By | Date/Time | | | | | | | | | | | | |

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

Bechtel Hanford, Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Data Turnaround
 Priority
 Normal

| | | |
|--|--------------------------------------|--------------------------------------|
| Collector <i>A. Rizzo</i> | Company Contact C. D. Wittreich | Telephone (509) 372-9315 |
| Project Designation DO-UP-1 IRM Implementation Sampling - Round 1 | Sampling Location 200 West | SAF No. B96-003 |
| Field Chest No. | Field Logbook No. <i>EFL-1135</i> | Method of Shipment Hand Delivered |
| Shipped To Frank Gustafson | Offsite Property No. NA | Bill of Lading/Air Bill No. NA |

| | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|--|---------------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Possible Sample Hazards/Remarks | Preservation | None | | | | | | | | | | | | | | | | | | |
| | Type of Container | P/G | | | | | | | | | | | | | | | | | | |
| | No. of Container(s) | 1 | | | | | | | | | | | | | | | | | | |
| | Special Handling and/or Storage Maintain samples between 2°C and 6°C. | Volume | 20mL | | | | | | | | | | | | | | | | | |
| SAMPLE ANALYSIS | | Total Uranium | | | | | | | | | | | | | | | | | | |

| Sample No. | Matrix* | Date Sampled | Time Sampled | | | | | | | | | | | | | | | | | | |
|------------|---------|--------------|--------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 30GRD9 | W | 10-30-95 | 1007 | 7 | | | | | | | | | | | | | | | | | |
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|---------------------|--------------------------------|---------------------------|---|---------------------------|--|--|--|--|--|--|--|--|---|--|--|
| CHAIN OF POSSESSION | Sign/Print Names | | SPECIAL INSTRUCTIONS Deliver samples to Frank Gustafson. | | | | | | | | | | Matrix* S - Soil SE - Sediment SO - 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 | | |
| | Relinquished By <i>AG Free</i> | Date/Time <i>10-31-95</i> | Received By <i>10 Jacques</i> | Date/Time <i>10-31-95</i> | | | | | | | | | | | |
| | Relinquished By | Date/Time | Received By | Date/Time | | | | | | | | | | | |
| | Relinquished By | Date/Time | Received By | Date/Time | | | | | | | | | | | |

FIELD SAMPLE COPY

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

Bechtel Hanford, Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Data Turnaround

- Priority
- Normal

| | | |
|---|--------------------------------------|--------------------------------------|
| Collector <i>A. Rizzo</i> | Company Contact C. D. Wittreich | Telephone (509) 372-9315 |
| Project Designation 200-UP-1 IRM Implementation Sampling - Round 1 | Sampling Location 200 West | SAF No. B96-003 |
| Ice Chest No. | Field Logbook No. <i>EFL-1135</i> | Method of Shipment Hand Delivered |
| Shipped To Duane Jacques | Offsite Property No. NA | Bill of Lading/Air Bill No. NA |

| | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|--|--------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Possible Sample Hazards/Remarks | Preservation | None | | | | | | | | | | | | | | | | | | |
| | Type of Container | Gs | | | | | | | | | | | | | | | | | | |
| | No. of Container(s) | 1 | | | | | | | | | | | | | | | | | | |
| | Special Handling and/or Storage Maintain samples between 2°C and 8°C. | Volume | 40mL | | | | | | | | | | | | | | | | | |

SAMPLE ANALYSIS

| Sample No. | Matrix* | Date Sampled | Time Sampled | VOA - TCL | | | | | | | | | | | | | | | | | |
|------------|---------|--------------|--------------|--------------|-----------|--|--|-----------|--|--|----------------|--|--|--|--|--|--|--|--|--|--|
| B0GRF3 | W | 10-25-95 | 1240 | Y | TCM = 9.3 | | | CC14 = 54 | | | TCE = 2.3 ug/l | | | | | | | | | | |
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| CHAIN OF POSSESSION | Sign/Print Names | | | |
|---------------------------------|-----------------------|-------------------------------|-----------------------|--|
| Relinquished By <i>A. Rizzo</i> | Date/Time <i>1307</i> | Received By <i>D. Jacques</i> | Date/Time <i>1307</i> | |
| <i>A. G. Rizzo (L&K)</i> | <i>10-27-95</i> | <i>D. Jacques</i> | <i>10-27-95</i> | |
| Relinquished By | Date/Time | Received By | Date/Time | |
| Relinquished By | Date/Time | Received By | Date/Time | |
| Relinquished By | Date/Time | Received By | Date/Time | |

SPECIAL INSTRUCTIONS
Hold all VOA samples at 4701-C until project is completed. Then deliver to Duane Jacques.

- Matrix***
- S - Soil
 - SE - Sediment
 - SO - 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 |

Data Turnaround

- Priority
 Normal

| | | |
|--|--------------------------------------|--------------------------------------|
| Collector <i>A. Rizzo</i> | Company Contact C. D. Wittreich | Telephone (509) 372-9315 |
| Project Designation 200-UP-1 IRM Implementation Sampling - Round 1 Chest No. | Sampling Location 200 West | SAF No. B96-003 |
| Shipped To Frank Gustafson | Field Logbook No. <i>EFL-1135</i> | Method of Shipment Hand Delivered |
| Possible Sample Hazards/Remarks | Offsite Property No. NA | Bill of Lading/Air Bill No. NA |

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|--|---------------------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Special Handling and/or Storage Maintain samples between 2°C and 6°C. | Preservation | None | | | | | | | | | | | | | | | | | | |
| | Type of Container | P/G | | | | | | | | | | | | | | | | | | |
| | No. of Container(s) | 1 | | | | | | | | | | | | | | | | | | |
| | Volume | 20mL | | | | | | | | | | | | | | | | | | |

SAMPLE ANALYSIS

| Sample No. | Matrix* | Date Sampled | Time Sampled | Total Uranium | | | | | | | | | | | | | | | | |
|---------------|----------|-----------------|--------------|---------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| <i>B0GRF2</i> | <i>W</i> | <i>10-25-95</i> | <i>1240</i> | <i>X</i> | | | | | | | | | | | | | | | | |
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|---------------------|-----------------------------|-----------------------|---|-----------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| CHAIN OF POSSESSION | Sign/Print Names | | SPECIAL INSTRUCTIONS Deliver samples to Frank Gustafson. | | | | | | | | | | | | Matrix* S - Soil SE - Sediment SO - Solid SL - Sludge W - Water O - Oil A - Air OS - Drum Solids DL - Drum Liquid T - Tissue WI - Wipe L - Liquid V - Vegetation X - Other | | |
| | Relinquished By <i>A.R.</i> | Date/Time <i>1307</i> | Received By <i>D. Jaeger</i> | Date/Time <i>1307</i> | | | | | | | | | | | | | |
| | <i>A.R. Rizzo (EFL)</i> | <i>10-27-95</i> | <i>D. Jaeger</i> | <i>10/25/95</i> | | | | | | | | | | | | | |
| | Relinquished By | Date/Time | Received By | Date/Time | | | | | | | | | | | | | |
| Relinquished By | Date/Time | Received By | Date/Time | | | | | | | | | | | | | | |
| Relinquished By | Date/Time | Received By | Date/Time | | | | | | | | | | | | | | |

FIELD SAMPLE COPY

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

Bechtel Hanford, Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Data Turnaround
 Priority
 Normal

| | | |
|---|-------------------------------------|--------------------------------------|
| Collector <i>A. Rizzo</i> | Company Contact C. D. Wittreich | Telephone (509) 372-9315 |
| Project Designation 200-UP-1 IRM Implementation Sampling - Round 1 | Sampling Location 200 West | SAF No. B96-003 |
| Ice Chest No. | Field Logbook No. <i>EFL-135</i> | Method of Shipment Hand Delivered |
| Shipped To Duane Jacques | Offsite Property No. NA | Bill of Lading/Air Bill No. NA |

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|---------------------------------|--|--------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Possible Sample Hazards/Remarks | Preservation | None | | | | | | | | | | | | | | | | | | |
| | Type of Container | Gs | | | | | | | | | | | | | | | | | | |
| | No. of Container(s) | 1 | | | | | | | | | | | | | | | | | | |
| | Special Handling and/or Storage Maintain samples between 2°C and 8°C. | Volume | 40mL | | | | | | | | | | | | | | | | | |

SAMPLE ANALYSIS

VOA -
TCL

| Sample No. | Matrix* | Date Sampled | Time Sampled | | | | | | | | | | | | | | | | | |
|------------|---------|--------------|--------------|---|---------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| B06RFE | W | 10-26-95 | 1142 | Y | TCM = 5.9, CCl4 = 140, TCE = 1.8 ug/L | | | | | | | | | | | | | | | |
| B06RHO | W | 10-26-95 | 0740 | Y | - No detects | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
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|---------------------------------|------------------|------|-------------------------------|---------------|
| CHAIN OF POSSESSION | Sign/Print Names | | | |
| Relinquished By <i>A. Rizzo</i> | Date/Time | 1300 | Received By <i>D. Jacques</i> | Date/Time |
| <i>A. Rizzo (seal)</i> | 10-27-95 | | <i>D. Jacques</i> | 10-27-95 1300 |
| Relinquished By | Date/Time | | Received By | Date/Time |
| Relinquished By | Date/Time | | Received By | Date/Time |
| Relinquished By | Date/Time | | Received By | Date/Time |

SPECIAL INSTRUCTIONS
 Hold all VOA samples at 4701-C until project is completed. Then deliver to Duane Jacques.

- Matrix*
- S - Soil
 - SE - Sediment
 - SO - 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 1

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

Bechtel Hanford, Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Data Turnaround
 Priority
 Normal

| | | |
|--|--------------------------------------|--------------------------------------|
| Director <i>A. Rizzo</i> | Company Contact C. D. Wittreich | Telephone (509) 372-9315 |
| Project Designation 10-UP-1 IRM Implementation Sampling - Round 1 | Sampling Location 200 West | SAF No. B96-003 |
| Chest No. | Field Logbook No. <i>EFL 1135</i> | Method of Shipment Hand Delivered |
| Shipped To Frank Gustafson | Offsite Property No. NA | Bill of Lading/Air Bill No. NA |

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|---------------------------------|--|---------------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Possible Sample Hazards/Remarks | Preservation | None | | | | | | | | | | | | | | | | | | |
| | Type of Container | P/G | | | | | | | | | | | | | | | | | | |
| | No. of Container(s) | 1 | | | | | | | | | | | | | | | | | | |
| | Special Handling and/or Storage Maintain samples between 2°C and 6°C. | Volume | 20mL | | | | | | | | | | | | | | | | | |
| SAMPLE ANALYSIS | | Total Uranium | | | | | | | | | | | | | | | | | | |

| Sample No. | Matrix* | Date Sampled | Time Sampled | | | | | | | | | | | | | | | | | | |
|------------|---------|--------------|--------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 10GRF5 | W | 10-26-95 | 1142 | Y | | | | | | | | | | | | | | | | | |
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|---------------------|---------------------------------|---------------|---------------------------------|-------------------|---|
| CHAIN OF POSSESSION | Sign/Print Names | | SPECIAL INSTRUCTIONS | | Matrix* S - Soil SE - Sediment SO - 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 |
| | Relinquished By <i>AG Rizzo</i> | Date/Time | Received By <i>Duan Jacquez</i> | Date/Time | |
| | <i>AG Rizzo (ERC)</i> | 10-27-95 1300 | <i>D Jacquez</i> | 10-27-95 1300 | |
| | Relinquished By | Date/Time | Received By | Date/Time | |
| Relinquished By | Date/Time | Received By | Date/Time | FIELD SAMPLE COPY | |
| Relinquished By | Date/Time | Received By | Date/Time | | |

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

Bechtel Hanford, Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Data Turnaround

- Priority
- Normal

| | | |
|---|--|--------------------------------------|
| Collector <i>A. Rizzo</i> | Company Contact C. D. Wittreich | Telephone (509) 372-9315 |
| Project Designation 200-UP-1 IRM Implementation Sampling - Round 1 | Sampling Location 200 West | SAF No. B96-003 |
| Ice Chest No. | Field Logbook No. <i>102795</i> <i>EFL-103 EFL-1135</i> | Method of Shipment Hand Delivered |
| Shipped To Duane Jacques | Offsite Property No. NA | Bill of Lading/Air Bill No. NA |

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|---------------------------------|--|--------------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Possible Sample Hazards/Remarks | Preservation | None | | | | | | | | | | | | | | | | | | |
| | Type of Container | Gs | | | | | | | | | | | | | | | | | | |
| | No. of Container(s) | 1 | | | | | | | | | | | | | | | | | | |
| | Special Handling and/or Storage Maintain samples between 2°C and 8°C. | Volume | 40mL | | | | | | | | | | | | | | | | | |
| SAMPLE ANALYSIS | | VOA - TCL | | | | | | | | | | | | | | | | | | |

| Sample No. | Matrix* | Date Sampled | Time Sampled | | | | | | | | | | | | | | | | | | |
|------------|---------|--------------|--------------|---|--------------|-----------|-----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| BOGRF9 | W | 10-27-95 | 1718 | Y | TUM = 6.8 | CCl4 = 37 | TCE = 0.75 ug/l | | | | | | | | | | | | | | |
| BOGRH1 | W | 10-27-95 | 0740 | Y | - No detects | | | | | | | | | | | | | | | | |
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|---------------------|-----------------------------|-----------------------|----------------------------------|-----------------------|---|---|
| CHAIN OF POSSESSION | Sign/Print Names | | | | SPECIAL INSTRUCTIONS Hold all VOA samples at 4701-C until project is completed. Then deliver to Duane Jacques. | Matrix* S - Soil SE - Sediment SO - 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 |
| | Relinquished By <i>A.R.</i> | Date/Time <i>1250</i> | Received By <i>Duane Jacques</i> | Date/Time <i>1250</i> | | |
| | <i>A.R. Rizzo (C.D.)</i> | <i>10-27-95</i> | <i>D Jacques</i> | <i>10/27/95</i> | | |
| | Relinquished By | Date/Time | Received By | Date/Time | | |
| Relinquished By | Date/Time | Received By | Date/Time | | | |
| Relinquished By | Date/Time | Received By | Date/Time | | | |

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

Data Turnaround

Priority

Normal

| | | |
|---|--------------------------------------|--------------------------------------|
| Collector <i>A. Rizzo</i> | Company Contact C. D. Wittreich | Telephone (509) 372-9315 |
| Project Designation 200-UP-1 IRM Implementation Sampling - Round 1 | Sampling Location 200 West | SAF No. B96-003 |
| Chest No. | Field Logbook No. <i>EFL-1135</i> | Method of Shipment Hand Delivered |
| Shipped To Frank Gustafson | Offsite Property No. NA | Bill of Lading/Air Bill No. NA |

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|---------------------------------|--|--------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Possible Sample Hazards/Remarks | Preservation | None | | | | | | | | | | | | | | | | | | |
| | Type of Container | P/G | | | | | | | | | | | | | | | | | | |
| | No. of Container(s) | 1 | | | | | | | | | | | | | | | | | | |
| | Special Handling and/or Storage Maintain samples between 2°C and 6°C. | Volume | 20mL | | | | | | | | | | | | | | | | | |

SAMPLE ANALYSIS

| Sample No. | Matrix* | Date Sampled | Time Sampled | Total Uranium | | | | | | | | | | | | | | | | |
|---------------|----------|-----------------|--------------|---------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| <i>BOGRF8</i> | <i>W</i> | <i>10-27-95</i> | <i>1218</i> | <i>X</i> | | | | | | | | | | | | | | | | |
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|---------------------|---------------------------------|---------------------------|----------------------------------|---------------------------|---|--|--|--|--|--|--|--|--|--|---|
| CHAIN OF POSSESSION | Sign/Print Names | | | | SPECIAL INSTRUCTIONS Deliver samples to Frank Gustafson. | | | | | | | | | | Matrix* S = Soil SE = Sediment SO = 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 |
| | Relinquished By <i>AG Rizzo</i> | Date/Time <i>1250</i> | Received By <i>I. D. Jacques</i> | Date/Time <i>1250</i> | | | | | | | | | | | |
| | Relinquished By <i>AG Rizzo</i> | Date/Time <i>10-27-95</i> | Received By <i>I. D. Jacques</i> | Date/Time <i>10/27/95</i> | | | | | | | | | | | |
| | Relinquished By | Date/Time | Received By | Date/Time | | | | | | | | | | | |
| Relinquished By | Date/Time | Received By | Date/Time | | | | | | | | | | | | |

FIELD SAMPLE COPY

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

Bechtel Hanford, Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Data Turnaround
 Priority
 Normal

| | | |
|---|--|--------------------------------------|
| Collector <i>A. Rizzo</i> | Company Contact C. D. Wittreich | Telephone (509) 372-9315 |
| Project Designation 200-UP-1 IRM Implementation Sampling - Round 1 | Sampling Location 200 West | SAF No. B96-003 |
| Ice Chest No. | Field Logbook No. <i>SEFL-10 10/27/95 EFR-135</i> | Method of Shipment Hand Delivered |
| Shipped To Duane Jacques | Offsite Property No. NA | Bill of Lading/Air Bill No. NA |

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|---------------------------------|--|--------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Possible Sample Hazards/Remarks | Preservation | None | | | | | | | | | | | | | | | | | | |
| | Type of Container | Gs | | | | | | | | | | | | | | | | | | |
| | No. of Container(s) | 1 | | | | | | | | | | | | | | | | | | |
| | Special Handling and/or Storage Maintain samples between 2°C and 6°C. | Volume | 40mL | | | | | | | | | | | | | | | | | |

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|-----------------|--|-------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| SAMPLE ANALYSIS | | VOA - | | | | | | | | | | | | | | | | | | |
| | | TCL | | | | | | | | | | | | | | | | | | |

| Sample No. | Matrix* | Date Sampled | Time Sampled | | | | | | | | | | | | | | | | | | | |
|------------|---------|--------------|--------------|---|---------------------------------|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|
| B0GRG2 | W | 10-27-95 | 1345 | 0 | TCM = 5.4, CCl4 = 26, TCE = 2.1 | | | | | | | | | | ug/L | | | | | | | |
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|---------------------|-----------------------------------|--------------------------------|---|--------------------------------|--|--|--|--|--|--|--|--|---|--|--|
| CHAIN OF POSSESSION | Sign/Print Names | | SPECIAL INSTRUCTIONS Hold all VOA samples at 4701-C until project is completed. Then deliver to Duane Jacques. | | | | | | | | | | Matrix* S - Soil SE - Sediment SO - 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 | | |
| | Relinquished By <i>A.R. Rizzo</i> | Date/Time <i>10-27-95 1405</i> | Received By <i>D. Jacques</i> | Date/Time <i>10-27-95 1405</i> | | | | | | | | | | | |
| | Relinquished By | Date/Time | Received By | Date/Time | | | | | | | | | | | |
| | Relinquished By | Date/Time | Received By | Date/Time | | | | | | | | | | | |

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

Data Turnaround
 Priority
 Normal

| | | |
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| Collector <i>A. Rizzo</i> | Company Contact C. D. Wittreich | Telephone (509) 372-9315 |
| Project Designation MO-UP-1 IRM Implementation Sampling - Round 1 | Sampling Location 200 West | SAF No. B98-003 |
| Chest No. | Field Logbook No. <i>EFZ 1135</i> | Method of Shipment Hand Delivered |
| Shipped To Frank Gustafson | Offsite Property No. NA | Bill of Lading/Air Bill No. NA |

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|---------------------------------|--|--------|---------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Possible Sample Hazards/Remarks | Preservation | None | | | | | | | | | | | | | | | | | | |
| | Type of Container | P/G | | | | | | | | | | | | | | | | | | |
| | No. of Container(s) | 1 | | | | | | | | | | | | | | | | | | |
| | Special Handling and/or Storage Maintain samples between 2°C and 6°C. | Volume | 20mL | | | | | | | | | | | | | | | | | |
| SAMPLE ANALYSIS | | | Total Uranium | | | | | | | | | | | | | | | | | |

| Sample No. | Matrix* | Date Sampled | Time Sampled | | | | | | | | | | | | | | | | | | |
|----------------|----------|-----------------|--------------|----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| <i>B0 GR64</i> | <i>W</i> | <i>10-27-95</i> | <i>1345</i> | <i>X</i> | | | | | | | | | | | | | | | | | |
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| CHAIN OF POSSESSION | Sign/Print Names | | SPECIAL INSTRUCTIONS Deliver samples to Frank Gustafson. | | | | | | | | | | Matrix* S - Soil SE - Sediment SO - 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 | | |
| | Relinquished By <i>AG Rizzo (E.R.)</i> | Date/Time <i>10-27-95</i> | Received By <i>D. Jacques</i> | Date/Time <i>10-27-95</i> | | | | | | | | | | | |
| | Relinquished By | Date/Time | Received By | Date/Time | | | | | | | | | | | |
| | Relinquished By | Date/Time | Received By | Date/Time | | | | | | | | | | | |

FIELD SAMPLE COPY

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

Bechtel Hanford, Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Data Turnaround

- Priority
 Normal

| | | |
|---|--------------------------------------|--------------------------------------|
| Collector <i>A. Rizzo</i> | Company Contact C. D. Wittreich | Telephone (509) 372-9315 |
| Project Designation 200-UP-1 IRM Implementation Sampling - Round 1 | Sampling Location 200 West | SAF No. B96-003 |
| Ice Chest No. | Field Logbook No. <i>EFL-1135</i> | Method of Shipment Hand Delivered |
| Shipped To Duane Jacques | Offsite Property No. NA | Bill of Lading/Air Bill No. NA |

| | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|--|--------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Possible Sample Hazards/Remarks | Preservation | None | | | | | | | | | | | | | | | | | | |
| | Type of Container | Gs | | | | | | | | | | | | | | | | | | |
| | No. of Container(s) | 1 | | | | | | | | | | | | | | | | | | |
| | Special Handling and/or Storage Maintain samples between 2°C and 6°C. | Volume | 40mL | | | | | | | | | | | | | | | | | |

SAMPLE ANALYSIS

| Sample No. | Matrix* | Date Sampled | Time Sampled | VOA - | TCL | | | | | | | | | | | | | | | |
|---------------|----------|-----------------|--------------|----------|----------|-------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| <i>BOGR68</i> | <i>W</i> | <i>10-27-95</i> | <i>1247</i> | <i>X</i> | <i>-</i> | <i>No detects</i> | | | | | | | | | | | | | | |
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| CHAIN OF POSSESSION | Sign/Print Names | SPECIAL INSTRUCTIONS | Matrix* |
| Relinquished By <i>A. Rizzo</i> | Date/Time <i>10-27-95 1255</i> | Hold all VOA samples at 4701-C until project is completed. Then deliver to Duane Jacques. | <ul style="list-style-type: none"> S = Soil SE = Sediment SO = 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 |
| Received By <i>D. Jacques</i> | Date/Time <i>10/27/95 1255</i> | | |
| Relinquished By <i>D. Jacques</i> | Date/Time | | |
| Received By | Date/Time | | |
| Relinquished By | Date/Time | | |
| Relinquished By | Date/Time | | |

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

Data Turnaround
 Priority
 Normal

| | | |
|---|--------------------------------------|--------------------------------------|
| Collector A. Rizzo | Company Contact C. D. Wittreich | Telephone (509) 372-9315 |
| Project Designation 200-UP-1 IRM Implementation Sampling - Round 1 | Sampling Location 200 West | SAF No. B96-003 |
| Ice Chest No. | Field Logbook No. EFZ-1135 | Method of Shipment Hand Delivered |
| Shipped To Frank Gustafson | Offsite Property No. NA | Bill of Lading/Air Bill No. NA |

| | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|---------------------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Possible Sample Hazards/Remarks | Preservation | None | | | | | | | | | | | | | | | | | | |
| | Type of Container | P/G | | | | | | | | | | | | | | | | | | |
| | No. of Container(s) | 1 | | | | | | | | | | | | | | | | | | |

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|--|--------|---------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Special Handling and/or Storage Maintain samples between 2°C and 6°C. | Volume | 20mL | | | | | | | | | | | | | | | | | | |
| SAMPLE ANALYSIS | | Total Uranium | | | | | | | | | | | | | | | | | | |

| Sample No. | Matrix* | Date Sampled | Time Sampled | | | | | | | | | | | | | | | | | | |
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| BOGR67 | W | 10-27-95 | 1247 | Y | | | | | | | | | | | | | | | | | |
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| CHAIN OF POSSESSION | Sign/Print Names | | SPECIAL INSTRUCTIONS Deliver samples to Frank Gustafson. | | | | | | | | | | Matrix* S - Soil SE - Sediment SO - 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 | | |
| | Relinquished By <i>AG/ls</i> | Date/Time <i>10-27-95 1255</i> | Received By <i>Frank Gustafson</i> | Date/Time <i>10/27/95 1255</i> | | | | | | | | | | | |
| | Relinquished By <i>AG/ls</i> | Date/Time | Received By | Date/Time | | | | | | | | | | | |
| | Relinquished By | Date/Time | Received By | Date/Time | | | | | | | | | | | |

FIELD SAMPLE COPY

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