

0074744

**SAF-RC-040**  
**300 Area D&D Waste Characterization**  
**Sampling - Other Solid**  
**FINAL DATA PACKAGE**

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COMPLETE COPY OF DATA PACKAGE TO:

Mike Stankovich

L1-01

KW 12/11/07  
INITIAL/DATE

**RECEIVED**  
DEC 17 2007

**EDMC**

COMMENTS:

**SDG 07-A-6660**

**SAF-RC-040**

Rad only

Chem only

Rad & Chem

Complete

Partial

Sample Location/Waste Site: 300 Area 309 Bldg.



**SUBMITTED TO:**

Joan Kessner  
Washington Closure Hanford  
2620 Fermi Avenue, MSIN H4-21  
Richland, WA 99354



**REFERENCE DATA:**

|                      |                           |
|----------------------|---------------------------|
| Client Sample No.:   | J162B3 through J16292     |
| P.O. No.:            | Not Available             |
| Sample Location:     | 309                       |
| Sample Type:         | Bulk                      |
| Method Reference:    | EPA-600/R-93/116          |
| DCL Set ID No.:      | 07-A-6660                 |
| DCL Sample ID No.:   | 07-38745 through 07-38772 |
| Sample Receipt Date: | 11/20/07                  |
| Analysis Date:       | 12/10/07 through 12/11/07 |

We certify that the following samples were prepared and analyzed by Polarized Light Microscopy for asbestos and other fibrous constituents using EPA-600/R-93/116. The samples were acceptable upon receipt except where noted. The samples were examined under a stereomicroscope in a laboratory fume hood for general composition and phase separation. If needed, portions of the sample were removed and ground with a mortar and pestle before being mounted on a glass microscope slide. Mountings of representative portions of the material are prepared in one or more appropriate refractive index liquids (1.550, 1.605, 1.680) and examined by Polarized Light Microscopy\*. Estimates of concentration are made on an area basis. The results of the analysis apply only to the materials analyzed and are summarized on the attached bulk asbestos analysis data sheets. DataChem Laboratories will dispose of all bulk samples after 60 days unless other arrangements are made.

Shawn Smythe  
Analyst

Anna Marie Ristich  
Reviewer

\*Floor tiles, decorative paints, joint compounds, and cement materials require additional treatment in order to evaluate the concentration of small asbestos fibers bound in the material. Some samples may contain fibers that are not visible by PLM and can only be detected by electron microscopy techniques. Floor tiles are analyzed as homogeneous materials if insufficient mastic is present or if phases have been cross contaminated.

DataChem Laboratories NVLAP Lab ID: 101917. Laboratory accreditation by the National Institute of Standards and Technology does not in any way constitute approval or endorsement by NVLAP, NIST, or any agency of the federal government..

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NOVATO, CALIFORNIA 94945  
800 280-8071, FAX 415 893-0469

**DataChem Laboratories  
Polarized Light Microscopy  
Asbestos Analytical Report**

Client: Washington Closure Hanford  
Location: 309  
Set ID: 07-A-6660

| Client Sample ID:              | J162B3              | J162B4             | J162B5                 | J162B6             | J162B7              |
|--------------------------------|---------------------|--------------------|------------------------|--------------------|---------------------|
| DCL Sample ID:                 | 07-38745            | 07-38746           | 07-38747               | 07-38748           | 07-38749            |
| <b>Macroscopic Examination</b> |                     |                    |                        |                    |                     |
| Accepted/Rejected:             | Accepted            | Accepted           | Accepted               | Accepted           | Accepted            |
| Homogeneity:                   | Homog.              | Homog.             | Layered<br>Inseparable | Homog.             | Homog.              |
| Color:                         | Grey                | Grey               | Yellow/Grey            | Grey               | Grey                |
| Texture:                       | Crumbly             | Crmbly/Fbrs        | Fbrs/Crmbly            | Crmbly/Fbrs        | Crumbly             |
| Description:                   | Material            | Material           | Material               | Material           | Material            |
| Analysis:                      | PLM                 | PLM                | PLM                    | PLM                | PLM                 |
| <b>Asbestiform Minerals</b>    |                     |                    |                        |                    |                     |
| % Chrysotile:                  |                     |                    |                        |                    |                     |
| % Amosite:                     |                     |                    |                        |                    |                     |
| % Crocidolite:                 |                     |                    |                        |                    |                     |
| % Tremolite - Actinolite:      |                     |                    |                        |                    |                     |
| % Anthophyllite:               |                     |                    |                        |                    |                     |
| <b>% Total Asbestos:</b>       | <b>ND</b>           | <b>ND</b>          | <b>ND</b>              | <b>ND</b>          | <b>ND</b>           |
| <b>Other Materials</b>         |                     |                    |                        |                    |                     |
| % Cellulose:                   |                     |                    | >3 ≤ 5                 |                    |                     |
| % Fiberglass:                  |                     | >30 ≤ 40           | >60 ≤ 70               | >30 ≤ 40           |                     |
| % Other Fibers:                |                     |                    |                        |                    |                     |
| % Resin/Binder:                |                     |                    |                        |                    |                     |
| <b>% Non Fibrous:</b>          | <b>&gt;90 ≤ 100</b> | <b>&gt;50 ≤ 60</b> | <b>&gt;20 ≤ 30</b>     | <b>&gt;50 ≤ 60</b> | <b>&gt;90 ≤ 100</b> |

ND = None Detected    Trace = <1%

Special Prep Procedures: None.

\*Notes: P. O. #: Not Available.

  
Shawn Smythe  
Microscopist

All values are in area percent by visual estimate. The Federal Register Vol. 55 No. 224 Tuesday Nov. 20 1990 Rules and Regulations states "... If the asbestos content is estimated to be less than 10% by a method other than point counting,... (the analysis) be repeated using the point counting technique by PLM." Any of the above samples can be reanalyzed by point counting at the client's request. Wherever possible, separate phases are analyzed and reported individually.

12/11/07

**DataChem Laboratories  
Polarized Light Microscopy  
Asbestos Analytical Report**

Client: Washington Closure Hanford  
Location: 309  
Set ID: 07-A-6660

| Client Sample ID:              | J162B8    | J162B9    | J162B9       | J162C0       | J162C0    |
|--------------------------------|-----------|-----------|--------------|--------------|-----------|
| DCL Sample ID:                 | 07-38750  | 07-38751A | 07-38751B    | 07-38752A    | 07-38752B |
| <b>Macroscopic Examination</b> |           |           |              |              |           |
| Accepted/Rejected:             | Accepted  | Accepted  | Accepted     | Accepted     | Accepted  |
| Homogeneity:                   | Homog.    | Layered   | Layered      | Layered      | Layered   |
| Color:                         | Grey      | Grey      | Black        | Grey         | Brown     |
| Texture:                       | Crumbly   | Compact   | Resinous     | Fbrs/Crmbly  | Crumbly   |
| Description:                   | Material  | Tile      | Mastic       | Ceiling Tile | Mastic    |
| Analysis:                      | PLM       | PLM       | PLM          | PLM          | PLM       |
| <b>Asbestiform Minerals</b>    |           |           |              |              |           |
| % Chrysotile:                  |           |           | Trace        |              |           |
| % Amosite:                     |           |           |              |              |           |
| % Crocidolite:                 |           |           |              |              |           |
| % Tremolite - Actinolite:      |           |           |              |              |           |
| % Anthophyllite:               |           |           |              |              |           |
| <b>% Total Asbestos:</b>       | <b>ND</b> | <b>ND</b> | <b>Trace</b> | <b>ND</b>    | <b>ND</b> |
| <b>Other Materials</b>         |           |           |              |              |           |
| % Cellulose:                   |           |           | >1 ≤ 3       | >40 ≤ 50     |           |
| % Fiberglass:                  |           |           |              | >20 ≤ 30     |           |
| % Other Fibers:                |           |           |              |              |           |
| % Resin/Binder:                |           | >10 ≤ 20  | >70 ≤ 80     |              | >60 ≤ 70  |
| % Non Fibrous:                 | >90 ≤ 100 | >70 ≤ 80  | >10 ≤ 20     | >10 ≤ 20     | >20 ≤ 30  |

ND = None Detected    Trace = <1%

Special Prep Procedures: None.

\*Notes: P. O. #: Not Available.

  
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Microscopist

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12/11/07

**DataChem Laboratories  
Polarized Light Microscopy  
Asbestos Analytical Report**

Client: Washington Closure Hanford

Location: 309

Set ID: 07-A-6660

| Client Sample ID:              | J162C1                 | J162C2    | J162C2    | J162C3    | J162C4    |
|--------------------------------|------------------------|-----------|-----------|-----------|-----------|
| DCL Sample ID:                 | 07-38753               | 07-38754A | 07-38754B | 07-38755  | 07-38756  |
| <b>Macroscopic Examination</b> |                        |           |           |           |           |
| Accepted/Rejected:             | Accepted               | Accepted  | Accepted  | Accepted  | Accepted  |
| Homogeneity:                   | Layered<br>Inseparable | Layered   | Layered   | Homog.    | Homog.    |
| Color:                         | Grey/Tan               | Brown     | Black     | Grey      | Grey      |
| Texture:                       | Crmby/Fbrs             | Compact   | Resinous  | Fibrous   | Fibrous   |
| Description:                   | Drywall                | Tile      | Mastic    | Material  | Material  |
| Analysis:                      | PLM                    | PLM       | PLM       | PLM       | PLM       |
| <b>Asbestiform Minerals</b>    |                        |           |           |           |           |
| % Chrysotile:                  |                        | >1 ≤ 3    | >1 ≤ 3    |           |           |
| % Amosite:                     |                        |           |           |           |           |
| % Crocidolite:                 |                        |           |           |           |           |
| % Tremolite - Actinolite:      |                        |           |           |           |           |
| % Anthophyllite:               |                        |           |           |           |           |
| % Total Asbestos:              | ND                     | >1 ≤ 3    | >1 ≤ 3    | ND        | ND        |
| <b>Other Materials</b>         |                        |           |           |           |           |
| % Cellulose:                   | >10 ≤ 20               |           |           |           |           |
| % Fiberglass:                  |                        |           |           | >90 ≤ 100 | >90 ≤ 100 |
| % Other Fibers:                |                        |           |           |           |           |
| % Resin/Binder:                |                        | >10 ≤ 20  | >70 ≤ 80  |           |           |
| % Non Fibrous:                 | >70 ≤ 80               | >70 ≤ 80  | >10 ≤ 20  |           |           |

ND = None Detected Trace = &lt;1%

Special Prep Procedures: None.

\*Notes: P. O. #: Not Available.



Shawn Smythe  
Microscopist

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12/11/07

**DataChem Laboratories  
Polarized Light Microscopy  
Asbestos Analytical Report**

Client: Washington Closure Hanford  
Location: 309  
Set ID: 07-A-6660

| Client Sample ID:              | J162C5    | J162C6       | J162C6    | J162C7    | J16280    |
|--------------------------------|-----------|--------------|-----------|-----------|-----------|
| DCL Sample ID:                 | 07-38757  | 07-38758A    | 07-38758B | 07-38759  | 07-38760  |
| <b>Macroscopic Examination</b> |           |              |           |           |           |
| Accepted/Rejected:             | Accepted  | Accepted     | Accepted  | Accepted  | Accepted  |
| Homogeneity:                   | Homog.    | Layered      | Layered   | Homog.    | Homog.    |
| Color:                         | Grey      | Grey/Tan     | Grey      | Grey      | Grey      |
| Texture:                       | Fibrous   | Crumbly/Fbrs | Crumbly   | Compact   | Crumbly   |
| Description:                   | Material  | Drywall      | Skimcoat  | Material  | Material  |
| Analysis:                      | PLM       | PLM          | PLM       | PLM       | PLM       |
| <b>Asbestiform Minerals</b>    |           |              |           |           |           |
| % Chrysotile:                  |           |              |           |           |           |
| % Amosite:                     |           |              |           |           |           |
| % Crocidolite:                 |           |              |           |           |           |
| % Tremolite - Actinolite:      |           |              |           |           |           |
| % Anthophyllite:               |           |              |           |           |           |
| % Total Asbestos:              | ND        | ND           | ND        | ND        | ND        |
| <b>Other Materials</b>         |           |              |           |           |           |
| % Cellulose:                   |           | >10 ≤ 20     |           |           |           |
| % Fiberglass:                  | >90 ≤ 100 |              |           |           |           |
| % Other Fibers:                |           |              |           |           |           |
| % Resin/Binder:                |           |              |           |           |           |
| % Non Fibrous:                 |           | >70 ≤ 80     | >90 ≤ 100 | >90 ≤ 100 | >90 ≤ 100 |

ND = None Detected Trace = <1%

Special Prep Procedures: None.

\*Notes: P. O. #: Not Available.

  
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Microscopist

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12/11/07

**DataChem Laboratories  
Polarized Light Microscopy  
Asbestos Analytical Report**

Client: Washington Closure Hanford  
Location: 309  
Set ID: 07-A-6660

| Client Sample ID:              | J16281    | J16282    | J16283    | J16283           | J16284    |
|--------------------------------|-----------|-----------|-----------|------------------|-----------|
| DCL Sample ID:                 | 07-38761  | 07-38762  | 07-38763A | 07-38763B        | 07-38764  |
| <b>Macroscopic Examination</b> |           |           |           |                  |           |
| Accepted/Rejected:             | Accepted  | Accepted  | Accepted  | Accepted         | Accepted  |
| Homogeneity:                   | Homog.    | Homog.    | Layered   | Layered          | Homog.    |
| Color:                         | Grey      | Grey      | Black     | Brown            | Grey      |
| Texture:                       | Crumbly   | Crumbly   | Flexible  | Crumbly          | Crumbly   |
| Description:                   | Material  | Material  | Covebase  | Mastic           | Material  |
| Analysis:                      | PLM       | PLM       | PLM       | PLM              | PLM       |
| <b>Asbestiform Minerals</b>    |           |           |           |                  |           |
| % Chrysotile:                  |           |           |           | >1 ≤ 3           |           |
| % Amosite:                     |           |           |           |                  |           |
| % Crocidolite:                 |           |           |           |                  |           |
| % Tremolite - Actinolite:      |           |           |           |                  |           |
| % Anthophyllite:               |           |           |           |                  |           |
| <b>% Total Asbestos:</b>       | <b>ND</b> | <b>ND</b> | <b>ND</b> | <b>&gt;1 ≤ 3</b> | <b>ND</b> |
| <b>Other Materials</b>         |           |           |           |                  |           |
| % Cellulose:                   |           |           |           |                  |           |
| % Fiberglass:                  |           |           |           |                  |           |
| % Other Fibers:                |           |           |           |                  |           |
| % Resin/Binder:                |           |           | >20 ≤ 30  | >60 ≤ 70         |           |
| % Non Fibrous:                 | >90 ≤ 100 | >90 ≤ 100 | >60 ≤ 70  | >20 ≤ 30         | >90 ≤ 100 |

ND = None Detected Trace = <1%

Special Prep Procedures: None.

\*Notes: P. O. #: Not Available.

  
Shawn Smythe  
Microscopist

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12/11/07

**DataChem Laboratories  
Polarized Light Microscopy  
Asbestos Analytical Report**

Client: Washington Closure Hanford  
Location: 309  
Set ID: 07-A-6660

| Client Sample ID:              | J16285             | J16286             | J16287             | J16288             | J16289             |
|--------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| DCL Sample ID:                 | 07-38765           | 07-38766           | 07-38767           | 07-38768           | 07-38769A          |
| <b>Macroscopic Examination</b> |                    |                    |                    |                    |                    |
| Accepted/Rejected:             | Accepted           | Accepted           | Accepted           | Accepted           | Accepted           |
| Homogeneity:                   | Homog.             | Homog.             | Homog.             | Homog.             | Layered            |
| Color:                         | Grey               | Grey               | Grey               | Grey               | Grey               |
| Texture:                       | Crmby/Fbrs         | Crmby/Fbrs         | Crmby/Fbrs         | Crmby/Fbrs         | Fbrs/Crmby         |
| Description:                   | Material           | Material           | Material           | Material           | Ceiling Tile       |
| Analysis:                      | PLM                | PLM                | PLM                | PLM                | PLM                |
| <b>Asbestiform Minerals</b>    |                    |                    |                    |                    |                    |
| % Chrysotile:                  | >1 ≤ 3             | >1 ≤ 3             | >3 ≤ 5             | Trace              |                    |
| % Amosite:                     |                    |                    | >10 ≤ 20           |                    |                    |
| % Crocidolite:                 |                    |                    |                    |                    |                    |
| % Tremolite - Actinolite:      |                    |                    |                    |                    |                    |
| % Anthophyllite:               |                    |                    |                    |                    |                    |
| <b>% Total Asbestos:</b>       | <b>&gt;1 ≤ 3</b>   | <b>&gt;1 ≤ 3</b>   | <b>&gt;13 ≤ 25</b> | <b>Trace</b>       | <b>ND</b>          |
| <b>Other Materials</b>         |                    |                    |                    |                    |                    |
| % Cellulose:                   |                    |                    |                    |                    | >40 ≤ 50           |
| % Fiberglass:                  | >20 ≤ 30           | >20 ≤ 30           |                    | >20 ≤ 30           | >20 ≤ 30           |
| % Other Fibers:                | >5 ≤ 10            | >5 ≤ 10            | >5 ≤ 10            | >5 ≤ 10            |                    |
| % Resin/Binder:                |                    |                    |                    |                    |                    |
| <b>% Non Fibrous:</b>          | <b>&gt;50 ≤ 60</b> | <b>&gt;50 ≤ 60</b> | <b>&gt;60 ≤ 70</b> | <b>&gt;50 ≤ 60</b> | <b>&gt;10 ≤ 20</b> |

ND = None Detected    Trace = <1%

Special Prep Procedures: None.

\*Notes: P. O. #: Not Available.

  
Shawn Smythe  
Microscopist

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12/11/07

**DataChem Laboratories  
Polarized Light Microscopy  
Asbestos Analytical Report**

Client: Washington Closure Hanford  
Location: 309  
Set ID: 07-A-6660

| Client Sample ID:              | J16289    | J16290       | J16290    | J16291           | J16291           |
|--------------------------------|-----------|--------------|-----------|------------------|------------------|
| DCL Sample ID:                 | 07-38769B | 07-38770A    | 07-38770B | 07-38771A        | 07-38771B        |
| <b>Macroscopic Examination</b> |           |              |           |                  |                  |
| Accepted/Rejected:             | Accepted  | Accepted     | Accepted  | Accepted         | Accepted         |
| Homogeneity:                   | Layered   | Layered      | Layered   | Layered          | Layered          |
| Color:                         | Tan       | Grey         | Brown     | Grey             | Black            |
| Texture:                       | Crumbly   | Fbrs/Crmby   | Crumbly   | Compact          | Resinous         |
| Description:                   | Mastic    | Ceiling Tile | Mastic    | Tile             | Mastic           |
| Analysis:                      | PLM       | PLM          | PLM       | PLM              | PLM              |
| <b>Asbestiform Minerals</b>    |           |              |           |                  |                  |
| % Chrysotile:                  |           |              |           | >1 ≤ 3           | >3 ≤ 5           |
| % Amosite:                     |           |              |           |                  |                  |
| % Crocidolite:                 |           |              |           |                  |                  |
| % Tremolite - Actinolite:      |           |              |           |                  |                  |
| % Anthophyllite:               |           |              |           |                  |                  |
| <b>% Total Asbestos:</b>       | <b>ND</b> | <b>ND</b>    | <b>ND</b> | <b>&gt;1 ≤ 3</b> | <b>&gt;3 ≤ 5</b> |
| <b>Other Materials</b>         |           |              |           |                  |                  |
| % Cellulose:                   |           | >40 ≤ 50     |           |                  |                  |
| % Fiberglass:                  |           | >20 ≤ 30     |           |                  |                  |
| % Other Fibers:                |           |              |           |                  |                  |
| % Resin/Binder:                | >60 ≤ 70  |              | >60 ≤ 70  | >10 ≤ 20         | >70 ≤ 80         |
| % Non Fibrous:                 | >20 ≤ 30  | >10 ≤ 20     | >20 ≤ 30  | >70 ≤ 80         | >10 ≤ 20         |

ND = None Detected Trace = <1%

Special Prep Procedures: None.

\*Notes: P. O. #: Not Available.

  
Shawn Smythe  
Microscopist

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12/11/07

**DataChem Laboratories  
Polarized Light Microscopy  
Asbestos Analytical Report**

Client: Washington Closure Hanford  
Location: 309  
Set ID: 07-A-6660

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Client Sample ID: J16292  
DCL Sample ID: 07-38772

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**Macroscopic Examination**

Accepted/Rejected: Accepted  
Homogeneity: Homog.  
Color: Grey  
Texture: Crumbly  
Description: Material  
Analysis: PLM

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**Asbestiform Minerals**

% Chrysotile:  
% Amosite:  
% Crocidolite:  
% Tremolite - Actinolite:  
% Anthophyllite:  
% Total Asbestos: ND

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**Other Materials**

% Cellulose:  
% Fiberglass:  
% Other Fibers:

% Resin/Binder:  
% Non Fibrous: >90 ≤ 100

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ND = None Detected Trace = <1%

Special Prep Procedures: None.

\*Notes: P. O. #: Not Available.

  
Shawn Smythe  
Microscopist

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| Washington Closure Hanford   |                    | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST |                       |   |                | RC-040-338   |  | Page 1 of 10                               |  |
|--|--------------------|--|-----------------------|---|----------------|--|--|--|--|
| Collector<br>Mike Stankovich   |                    | Company Contact<br>MT Stankovich         |                       | Telephone No.<br>531-7620               |                | Project Coordinator<br>KESSNER, JH   |  | Price Code 9K<br>Data Turnaround<br>7 Days |  |
| Project Designation<br>300 Area D&D Waste Characterization Sampling - Other Soli |                    | Sampling Location<br>309                 |                       | SAF No.<br>RC-040                       |                |  |  |  |  |
| Ice Chest No.<br>Fed Ex Box  |                    | Field Logbook No.<br>EL-1518-9           |                       | COA<br>See below                        |                | Method of Shipment<br>Federal Express  |  |  |  |
| Shipped To<br>DataChem Laboratories - Cincinnati                                 |                    | Offsite Property No.<br>A080035          |                       | Bill of Lading/Air Bill No.<br>See OSPC |                |  |  |  |  |
| POSSIBLE SAMPLE HAZARDS/REMARKS<br>Asbestos & Be                                 |                    |  | Preservation          | None                                    |                |  |  |  |  |
| Special Handling and/or Storage  |                    |  | Type of Container     | GP                                      |                |  |  |  |  |
|  |                    |  | No. of Container(s)   | 1                                       |                |  |  |  |  |
|  |                    |  | Volume                | 5g                                      |                |  |  |  |  |
| SAMPLE ANALYSIS<br>07A-6660  |                    |  |                       | Asbestos-<br>BULK-EPA                   |                |  |  |  |  |
| Sample No.   | Matrix *           | Sample Date                              | Sample Time           |   |                |  |  |  |  |
| J162B3 38745   | OTHER SOLID        | 11-19-07                                 | 0824                  | T                                       |                |  |  |  |  |
| J162B4 38746   | OTHER SOLID        | ↓  | 0827                  | T                                       |                |  |  |  |  |
| J162B5 38747   | OTHER SOLID        |  | 0830                  | T                                       |                |  |  |  |  |
| J162B6 38748   | OTHER SOLID        |  | 0833                  | T                                       |                |  |  |  |  |
| J162B7 38749   | OTHER SOLID        |  | 0836                  | T                                       |                |  |  |  |  |
| CHAIN OF POSSESSION  |                    |  |                       | Sign/Print Names                        |                | SPECIAL INSTRUCTIONS   |  |  |  |
| Relinquished By/Removed From   |                    | Date/Time                                | Received By/Stored In |   | Date/Time      | Laboratory Analysis, Data Management, and Shipping COA - RD4MXX2F00  |  |  |  |
| Mike Stankovich  |                    | 11/19/07                                 | Anna Marie Roberts    |   | 11-19-07 0920  |  |  |  |  |
| Relinquished By/Removed From   |                    | Date/Time                                | Received By/Stored In |   | Date/Time      |  |  |  |  |
| Mike Stankovich  |                    | 11-19-07 1500                            | FEDEX                 |   |                |  |  |  |  |
| Relinquished By/Removed From   |                    | Date/Time                                | Received By/Stored In |   | Date/Time      |  |  |  |  |
| Kelsey   |                    |  | Anna Marie Roberts    |   | 11/20/07 14:24 |  |  |  |  |
| Relinquished By/Removed From   |                    | Date/Time                                | Received By/Stored In |   | Date/Time      | Matrix *<br>S=Soil<br>SE=Soilment<br>SO=Solid<br>SH=Sludge<br>W=Water<br>O=Oil<br>A=Air<br>DS=Drum Solids<br>DL=Drum Liquids<br>T=Tissue<br>WI=Wipe<br>L=Liquid<br>V=Vegetation<br>X=Other |  |  |  |
| Relinquished By/Removed From   |                    | Date/Time                                | Received By/Stored In |   | Date/Time      |  |  |  |  |
| Relinquished By/Removed From   |                    | Date/Time                                | Received By/Stored In |   | Date/Time      |  |  |  |  |
| Relinquished By/Removed From   |                    | Date/Time                                | Received By/Stored In |   | Date/Time      |  |  |  |  |
| Relinquished By/Removed From   |                    | Date/Time                                | Received By/Stored In |   | Date/Time      |  |  |  |  |
| Relinquished By/Removed From   |                    | Date/Time                                | Received By/Stored In |   | Date/Time      |  |  |  |  |
| LABORATORY SECTION   | Received By        | Title                                    |                       |   | Date/Time      |  |  |  |  |
|  | Anna Marie Roberts |  |                       |   | 11/20/07 14:24 |  |  |  |  |
| FINAL SAMPLE DISPOSITION   | Disposal Method    | Disposed By                              |                       |   | Date/Time      |  |  |  |  |
|  |                    |  |                       |   |                |  |  |  |  |

| Washington Closure Hanford   |             | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST |             |   |  | RC-040-338                            |  | Page 2 of 10  |  |  |
|--|-------------|--|-------------|---|--|---------------------------------------|--|---|--|--|
| Collector<br>Mike Stankovich   |             | Company Contact<br>MT Stankovich         |             | Telephone No.<br>531-7620               |  | Project Coordinator<br>KESSNER, JH    |  | Price Code <b>9K</b> Data Turnaround<br><b>7 Days</b>               |  |  |
| Project Designation<br>300 Area D&D Waste Characterization Sampling - Other Soli |             | Sampling Location<br>309                 |             | SAF No.<br>RC-040                       |  |                                       |  |   |  |  |
| Ice Chest No.<br>Fed Ex Box  |             | Field Logbook No.<br>EL-1518-9           |             | COA<br>See below                        |  | Method of Shipment<br>Federal Express |  |   |  |  |
| Shipped To<br>DataChem Laboratories - Cincinnati                                 |             | Offsite Property No.<br><b>A080035</b>   |             | Bill of Lading/Air Bill No.<br>See OSPC |  |                                       |  |   |  |  |
| POSSIBLE SAMPLE HAZARDS/REMARKS<br><i>Asbestos &amp; Be</i>                      |             |  |             | Preservation                            |  | None                                  |  |   |  |  |
|  |             |  |             | Type of Container                       |  | G/P                                   |  |   |  |  |
|  |             |  |             | No. of Container(s)                     |  | 1                                     |  |   |  |  |
|  |             |  |             | Volume                                  |  | 5g                                    |  |   |  |  |
| Special Handling and/or Storage  |             |  |             | Asbestos-BULK-EPA                       |  |                                       |  |   |  |  |
| SAMPLE ANALYSIS<br><b>6660</b>   |             |  |             |   |  |                                       |  |   |  |  |
| Sample No.   | Matrix *    | Sample Date                              | Sample Time |   |  |                                       |  |   |  |  |
| J162B8 38750   | OTHER SOLID | 11-19-07                                 | 0839        | 1                                       |  |                                       |  |   |  |  |
| J162B9 38751   | OTHER SOLID | J  | 0842        | 1                                       |  |                                       |  |   |  |  |
| J162C0 38752   | OTHER SOLID |  | 0845        | 1                                       |  |                                       |  |   |  |  |
| J162C1 38753   | OTHER SOLID |  | 0848        | 1                                       |  |                                       |  |   |  |  |
| J162C2 38754   | OTHER SOLID |  | 0851        | 1                                       |  |                                       |  |   |  |  |
| CHAIN OF POSSESSION  |             |  |             | SPECIAL INSTRUCTIONS                    |  | Matrix *                              |  |   |  |  |
| Relinquished By/Removed From   |             | Date/Time                                |             | Received By/Stored In                   |  | Date/Time                             |  | Laboratory Analysis, Data Management, and Shipping COA - RD4MXX2F00 |  | <ul style="list-style-type: none"> <li>S=Soil</li> <li>SE=Sediment</li> <li>SO=Solid</li> <li>SI=Sludge</li> <li>W=Water</li> <li>O=Oil</li> <li>A=Air</li> <li>DS=Drum Solids</li> <li>DL=Drum Liquids</li> <li>T=Tissue</li> <li>WI=Wipe</li> <li>L=Liquid</li> <li>V=Vegetation</li> <li>X=Other</li> </ul> |
| <i>Mike Stankovich</i>   |             | 11/19/07 0920                            |             | <i>Anna Mauer</i>                       |  | 11-19-07 0920                         |  |   |  |  |
| Relinquished By/Removed From   |             | Date/Time                                |             | Received By/Stored In                   |  | Date/Time                             |  |   |  |  |
| <i>MT Stankovich</i>   |             | 11-19-07 1500                            |             | FED EX                                  |  |                                       |  |   |  |  |
| Relinquished By/Removed From   |             | Date/Time                                |             | Received By/Stored In                   |  | Date/Time                             |  |   |  |  |
| <i>Fed Ex</i>  |             |  |             | <i>Anna Mauer</i>                       |  | 11/20/07 14:24                        |  |   |  |  |
| Relinquished By/Removed From   |             | Date/Time                                |             | Received By/Stored In                   |  | Date/Time                             |  |   |  |  |
| Relinquished By/Removed From   |             | Date/Time                                |             | Received By/Stored In                   |  | Date/Time                             |  |   |  |  |
| LABORATORY SECTION   |             | Received By                              |             | Title                                   |  | Date/Time                             |  |   |  |  |
|  |             | <i>Anna Mauer</i>                        |             | <i>Anna Mauer</i>                       |  | 11/20/07 14:24                        |  |   |  |  |
| FINAL SAMPLE DISPOSITION   |             | Disposal Method                          |             | Disposed By                             |  | Date/Time                             |  |   |  |  |
|  |             |  |             |   |  |                                       |  |   |  |  |

| Washington Closure Hanford   |             | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST |                      |                           |  | RC-040-338                              |  | Page 2 of 10  |  |  |
|--|-------------|--|----------------------|---------------------------|--|---|--|---|--|--|
| Collector<br>Mike Stankovich   |             | Company Contact<br>MT Stankovich         |                      | Telephone No.<br>531-7620 |  | Project Coordinator<br>KESSNER, JH      |  | Price Code 9K<br>Data Turnaround<br>7 Days                          |  |  |
| Project Designation<br>300 Area D&D Waste Characterization Sampling - Other Soli |             | Sampling Location<br>309                 |                      | SAF No.<br>RC-040         |  |   |  |   |  |  |
| Ice Chest No.<br>Fed Ex Box  |             | Field Logbook No.<br>EL-1518-9           |                      | COA<br>See below          |  | Method of Shipment<br>Federal Express   |  |   |  |  |
| Shipped To<br>DataChem Laboratories - Cincinnati                                 |             | Offsite Property No.<br>A080035          |                      |                           |  | Bill of Lading/Air Bill No.<br>See OSPC |  |   |  |  |
| POSSIBLE SAMPLE HAZARDS/REMARKS<br>Asbestos & Be                                 |             |  |                      | Preservation<br>None      |  |   |  |   |  |  |
| Special Handling and/or Storage  |             |  |                      | Type of Container<br>G/P  |  |   |  |   |  |  |
|  |             |  |                      | No. of Container(s)<br>1  |  |   |  |   |  |  |
|  |             |  |                      | Volume<br>5g              |  |   |  |   |  |  |
| SAMPLE ANALYSIS<br>6660  |             |  |                      | Asbestos-<br>BULK-EPA     |  |   |  |   |  |  |
| Sample No.   | Matrix *    | Sample Date                              | Sample Time          |                           |  |   |  |   |  |  |
| J162C3 38755   | OTHER SOLID | 11-19-07                                 | 0854                 | X                         |  |   |  |   |  |  |
| J162C4 38756   | OTHER SOLID | ↓  | 0857                 | X                         |  |   |  |   |  |  |
| J162C5 38757   | OTHER SOLID |  | 0900 <sup>0900</sup> | X                         |  |   |  |   |  |  |
| J162C6 38758   | OTHER SOLID |  | 0903                 | X                         |  |   |  |   |  |  |
| J162C7 38759   | OTHER SOLID |  | 0906                 | X                         |  |   |  |   |  |  |
| CHAIN OF POSSESSION  |             |  |                      | Sign/Print Names          |  | SPECIAL INSTRUCTIONS                    |  |   |  |  |
| Relinquished By/Removed From   |             | Date/Time                                |                      | Received By/Stored In     |  | Date/Time                               |  | Laboratory Analysis, Data Management, and Shipping COA - RD4MXX2F00 |  | Matrix *<br>S=Soil<br>SE=Settlement<br>SO=Solid<br>SL=Sludge<br>W=Water<br>O=Oil<br>A=Air<br>DS=Drum Solids<br>DL=Drum Liquids<br>T=Time<br>WI=Wipe<br>L=Liquid<br>V=Vegetation<br>X=Other |
| <del>MT Stankovich</del>   |             | 11/19/07 0920                            |                      | <del>MT Stankovich</del>  |  | 11/19/07 0920                           |  |   |  |  |
| <del>MT Stankovich</del>   |             | 11-19-07 1500                            |                      | FED EX                    |  |   |  |   |  |  |
| Fed Ex   |             |  |                      | <del>MT Stankovich</del>  |  | 11/20/07 14:24                          |  |   |  |  |
| Relinquished By/Removed From   |             | Date/Time                                |                      | Received By/Stored In     |  | Date/Time                               |  |   |  |  |
| Relinquished By/Removed From   |             | Date/Time                                |                      | Received By/Stored In     |  | Date/Time                               |  |   |  |  |
| LABORATORY SECTION   |             | Received By                              |                      | Title                     |  | Date/Time                               |  |   |  |  |
| FINAL SAMPLE DISPOSITION   |             | Disposal Method                          |                      | Disposed By               |  | Date/Time                               |  |   |  |  |

| Washington Closure Hanford   |                 | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST |                       |   |   | RC-040-337                            |  | Page 2 of 10                               |  |
|--|-----------------|--|-----------------------|---|---|---------------------------------------|--|--|--|
| Collector<br>Mike Stankovich   |                 | Company Contact<br>MT Stankovich         |                       | Telephone No.<br>531-7620               |   | Project Coordinator<br>KESSNER, JH    |  | Price Code 9K<br>Data Turnaround<br>7 Days |  |
| Project Designation<br>300 Area D&D Waste Characterization Sampling - Other Soli |                 | Sampling Location<br>309                 |                       | SAF No.<br>RC-040                       |   |                                       |  |  |  |
| Ice Chest No.<br>Fed Ex Box  |                 | Field Logbook No.<br>EL-1518-9           |                       | COA<br>See below                        |   | Method of Shipment<br>Federal Express |  |  |  |
| Shipped To<br>DataChem Laboratories - Cincinnati                                 |                 | Offsite Property No.<br>A080035          |                       | Bill of Lading/Air Bill No.<br>See OSPC |   |                                       |  |  |  |
| POSSIBLE SAMPLE HAZARDS/REMARKS<br>Asbestos & Be                                 |                 |  |                       | Preservation<br>None                    |   |                                       |  |  |  |
| Special Handling and/or Storage  |                 |  |                       | Type of Container<br>G/P                |   |                                       |  |  |  |
|  |                 |  |                       | No. of Container(s)<br>1                |   |                                       |  |  |  |
|  |                 |  |                       | Volume<br>5g                            |   |                                       |  |  |  |
| SAMPLE ANALYSIS<br>6660  |                 |  |                       | Asbestos-<br>BULK-EPA                   |   |                                       |  |  |  |
| Sample No.   | Matrix *        | Sample Date                              | Sample Time           |   |   |                                       |  |  |  |
| 140279 no 1/16/07  | OTHER SOLID     | 1  |                       |   |   |                                       |  |  |  |
| J16280 38760   | OTHER SOLID     | 11-19-07                                 | 0745                  | X                                       |   |                                       |  |  |  |
| J16281 38761   | OTHER SOLID     |  | 0748                  | X                                       |   |                                       |  |  |  |
| J16282 38762   | OTHER SOLID     |  | 0751                  | X                                       |   |                                       |  |  |  |
| J16283 38763   | OTHER SOLID     |  | 0754                  | X                                       |   |                                       |  |  |  |
| CHAIN OF POSSESSION  |                 |  | Sign/Print Names      |   | SPECIAL INSTRUCTIONS  |                                       |  |  | Matrix *   |
| Relinquished By/Removed From   |                 | Date/Time                                | Received By/Stored In |   | Laboratory Analysis, Data Management, and Shipping COA - RD4MXX2F00 |                                       |  |  | <ul style="list-style-type: none"> <li>S=Soil</li> <li>SE=Settlement</li> <li>SO=Solid</li> <li>SI=Sludge</li> <li>W = Water</li> <li>O=Oil</li> <li>A=Air</li> <li>DS=Drum Solids</li> <li>DL=Drum Liquids</li> <li>T=Time</li> <li>WI=Wipe</li> <li>L=Liquid</li> <li>V=Vegetation</li> <li>X=Other</li> </ul> |
| <del>Mike Stankovich</del>   |                 | 0920                                     | [Signature]           |   |   |                                       |  |  |  |
| [Signature]  |                 | 11-19-07                                 | [Signature]           |   |   |                                       |  |  |  |
| Relinquished By/Removed From   |                 | Date/Time                                | Received By/Stored In |   |   |                                       |  |  |  |
| [Signature]  |                 | 11-19-07 1500                            | FED EX                |   |   |                                       |  |  |  |
| Relinquished By/Removed From   |                 | Date/Time                                | Received By/Stored In |   |   |                                       |  |  |  |
| FED EX   |                 |  | [Signature]           |   |   |                                       |  |  |  |
| Relinquished By/Removed From   |                 | Date/Time                                | Received By/Stored In |   |   |                                       |  |  |  |
| Relinquished By/Removed From   |                 | Date/Time                                | Received By/Stored In |   |   |                                       |  |  |  |
| Relinquished By/Removed From   |                 | Date/Time                                | Received By/Stored In |   |   |                                       |  |  |  |
| LABORATORY SECTION   | Received By     | [Signature]                              |                       | Title                                   |   |                                       |  |  | Date/Time  |
| FINAL SAMPLE DISPOSITION   | Disposal Method |  |                       | Disposed By                             |   |                                       |  |  | Date/Time  |

| Washington Closure Hanford   |  | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST    |                                    |   |                      | RC-040-337                            |  | Page 2 of 10   |          |  |
|--|--|---|------------------------------------|---|----------------------|---------------------------------------|--|--|----------|--|
| Collector<br>Mike Stankovich   |  | Company Contact<br>MT Stankovich            |                                    | Telephone No.<br>531-7620   |                      | Project Coordinator<br>KESSNER, JH    |  | Price Code <b>9K</b> Data Turnaround<br><b>7 Days</b>  |          |  |
| Project Designation<br>300 Area D&D Waste Characterization Sampling - Other Soli |  | Sampling Location<br>309                    |                                    | SAF No.<br>RC-040   |                      |                                       |  |  |          |  |
| Ice Chest No.<br>Fed Ex Box  |  | Field Logbook No.<br>EL-1518-9              |                                    | COA<br>See below  |                      | Method of Shipment<br>Federal Express |  |  |          |  |
| Shipped To<br>DataChem Laboratories - Cincinnati                                 |  | Offsite Property No.<br><b>A080035</b>      |                                    | Bill of Lading/Air Bill No.<br>See OSPC                             |                      |                                       |  |  |          |  |
| POSSIBLE SAMPLE HAZARDS/REMARKS<br><i>Asbestos &amp; Be</i>                      |  | Preservation<br>None                        |                                    |   |                      |                                       |  |  |          |  |
| Special Handling and/or Storage  |  | Type of Container<br>G/P                    |                                    |   |                      |                                       |  |  |          |  |
|  |  | No. of Container(s)<br>1                    |                                    |   |                      |                                       |  |  |          |  |
|  |  | Volume<br>5g                                |                                    |   |                      |                                       |  |  |          |  |
| SAMPLE ANALYSIS<br><b>6660</b>   |  | Asbestos-BULK-EPA                           |                                    |   |                      |                                       |  |  |          |  |
| Sample No.   | Matrix *                               | Sample Date                                 | Sample Time                        |   |                      |                                       |  |  |          |  |
| J16284 <b>38764</b>  | OTHER SOLID                            | <b>11-19-03</b>                             | <b>0757</b>                        | <b>X</b>  |                      |                                       |  |  |          |  |
| J16285 <b>38765</b>  | OTHER SOLID                            |   | <b>0800</b>                        | <b>X</b>  |                      |                                       |  |  |          |  |
| J16286 <b>38766</b>  | OTHER SOLID                            |   | <b>0803</b>                        | <b>X</b>  |                      |                                       |  |  |          |  |
| J16287 <b>38767</b>  | OTHER SOLID                            |   | <b>0806</b>                        | <b>X</b>  |                      |                                       |  |  |          |  |
| J16288 <b>38768</b>  | OTHER SOLID                            |   | <b>0807</b>                        | <b>X</b>  |                      |                                       |  |  |          |  |
| CHAIN OF POSSESSION  |  |   | Sign/Print Names                   |   | SPECIAL INSTRUCTIONS |                                       |  |  | Matrix * |  |
| Relinquished By/Removed From<br><i>M. Stankovich</i>                             | Date/Time<br><b>11/19/07</b>           | Received By/Stored In<br><i>[Signature]</i> | Date/Time<br><b>11-19-07 0926</b>  | Laboratory Analysis, Data Management, and Shipping COA - RD4MXX2F00 |                      |                                       |  | <ul style="list-style-type: none"> <li>S-Soil</li> <li>SE-Sediment</li> <li>SO-Solid</li> <li>SI-Sludge</li> <li>W-Water</li> <li>O-Oil</li> <li>A-Air</li> <li>DS-Drum Solids</li> <li>DL-Drum Liquids</li> <li>T-Tissue</li> <li>WI-Wipe</li> <li>L-Liquid</li> <li>V-Vegetation</li> <li>X-Other</li> </ul> |          |  |
| Relinquished By/Removed From<br><i>[Signature]</i>                               | Date/Time<br><b>11-19-07 1500</b>      | Received By/Stored In<br><b>FED EX</b>      | Date/Time                          |   |                      |                                       |  |  |          |  |
| Relinquished By/Removed From<br><b>FED EX</b>                                    | Date/Time                              | Received By/Stored In<br><i>[Signature]</i> | Date/Time<br><b>11/20/07 14:24</b> |   |                      |                                       |  |  |          |  |
| Relinquished By/Removed From   | Date/Time                              | Received By/Stored In                       | Date/Time                          |   |                      |                                       |  |  |          |  |
| Relinquished By/Removed From   | Date/Time                              | Received By/Stored In                       | Date/Time                          |   |                      |                                       |  |  |          |  |
| Relinquished By/Removed From   | Date/Time                              | Received By/Stored In                       | Date/Time                          |   |                      |                                       |  |  |          |  |
| LABORATORY SECTION   | Received By<br><i>Anna Marie Rizzo</i> | Title<br><b>11/20/07 14:24</b>              |                                    | Date/Time   |                      |                                       |  |  |          |  |
| FINAL SAMPLE DISPOSITION   | Disposal Method                        | Disposed By                                 |                                    | Date/Time   |                      |                                       |  |  |          |  |

| Washington Closure Hanford   |                 | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST |               |                           |           | RC-040-337                              |  | Page 10 of 10   |  |   |
|--|-----------------|--|---------------|---------------------------|-----------|---|--|---|--|---|
| Collector<br>Mike Stankovich   |                 | Company Contact<br>MT Stankovich         |               | Telephone No.<br>531-7620 |           | Project Coordinator<br>KESSNER, JH      |  | Price Code 9K Data Turnaround<br>7 Days                             |  |   |
| Project Designation<br>300 Area D&D Waste Characterization Sampling - Other Soli |                 | Sampling Location<br>309                 |               | SAF No.<br>RC-040         |           |   |  |   |  |   |
| Ice Chest No.<br>Fed Ex Box  |                 | Field Logbook No.<br>EL-1518-9           |               | COA<br>See below          |           | Method of Shipment<br>Federal Express   |  |   |  |   |
| Shipped To<br>DataChem Laboratories - Cincinnati                                 |                 | Offsite Property No.<br>A080035          |               |                           |           | Bill of Lading/Air Bill No.<br>See OSPC |  |   |  |   |
| POSSIBLE SAMPLE HAZARDS/REMARKS<br>Asbestos & Be                                 |                 | Preservation                             |               | None                      |           |   |  |   |  |   |
| Special Handling and/or Storage  |                 | Type of Container                        |               | G/P                       |           |   |  |   |  |   |
|  |                 | No. of Container(s)                      |               | 1                         |           |   |  |   |  |   |
|  |                 | Volume                                   |               | 5g                        |           |   |  |   |  |   |
| SAMPLE ANALYSIS  |                 |  |               | Asbestos-BULK-EPA         |           |   |  |   |  |   |
|  |                 | 6660                                     |               |                           |           |   |  |   |  |   |
| Sample No.   | Matrix *        | Sample Date                              | Sample Time   |                           |           |   |  |   |  |   |
| J16289 38769   | OTHER SOLID     | 11-19-07                                 | 0812          | X                         |           |   |  |   |  |   |
| J16290 38770   | OTHER SOLID     | ✓  | 0815          | X                         |           |   |  |   |  |   |
| J16291 38771   | OTHER SOLID     | ✓  | 0818          | X                         |           |   |  |   |  |   |
| J16292 38772   | OTHER SOLID     | ✓  | 0821          | X                         |           |   |  |   |  |   |
| CHAIN OF POSSESSION  |                 |  |               | Sign/Print Names          |           | SPECIAL INSTRUCTIONS                    |  |   |  |   |
| Relinquished By/Removed From   |                 | Date/Time 0920                           |               | Received By/Stored In     |           | Date/Time                               |  | Laboratory Analysis, Data Management, and Shipping COA - RD4MXX2F00 |  | Matrix *<br>S=Soil<br>SO=Soil/m<br>SI=Sludge<br>W=Water<br>O=Oil<br>A=Air<br>DS=Drum Solids<br>DL=Drum Liquids<br>T=Tissue<br>W=Wipe<br>L=Liquid<br>V=Vegetation<br>X=Other |
| <del>MT Stankovich</del>   |                 | 11/19/07                                 |               | <del>MT Stankovich</del>  |           | 11-19-07 0920                           |  |   |  |   |
| Relinquished By/Removed From   |                 | Date/Time 1500                           |               | Received By/Stored In     |           | Date/Time                               |  |   |  |   |
| <del>MT Stankovich</del>   |                 | 11-19-07-1500                            |               | FED EX                    |           |   |  |   |  |   |
| Relinquished By/Removed From   |                 | Date/Time 211-1500                       |               | Received By/Stored In     |           | Date/Time                               |  |   |  |   |
| <del>MT Stankovich</del>   |                 | 11-19-07-211-1500                        |               | K. J. Sankovich           |           | 11/20/07 1424                           |  |   |  |   |
| Relinquished By/Removed From   |                 | Date/Time                                |               | Received By/Stored In     |           | Date/Time                               |  |   |  |   |
| Relinquished By/Removed From   |                 | Date/Time                                |               | Received By/Stored In     |           | Date/Time                               |  |   |  |   |
| Relinquished By/Removed From   |                 | Date/Time                                |               | Received By/Stored In     |           | Date/Time                               |  |   |  |   |
| LABORATORY SECTION   | Received By     |  | Title         |                           | Date/Time |   |  |   |  |   |
|  | Anna Marie R... |  | 11/20/07 1424 |                           |           |   |  |   |  |   |
| FINAL SAMPLE DISPOSITION   | Disposal Method |  | Disposed By   |                           | Date/Time |   |  |   |  |   |
|  |                 |  |               |                           |           |   |  |   |  |   |