

0074249

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

COMPLETE COPY OF DATA PACKAGE TO:

Mike Stankovich

L1-01

KW 10/18/07
INITIAL/DATE

COMMENTS:

SDG 07-A-5820

SAF-RC-040

Rad only

Chem only

Rad & Chem

Complete

Partial

Sample Location/Waste Site: 3718G

RECEIVED
OCT 29 2007

EDMC



10/18/07
Page 1 of 2



SUBMITTED TO:

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

REFERENCE DATA:

| | |
|----------------------|---------------------------|
| Client Sample No.: | J15PV0 through J15PV2 |
| P.O. No.: | Not Available |
| Sample Location: | 3718G |
| Sample Type: | Bulk |
| Method Reference: | EPA-600/R-93/116 |
| DCL Set ID No.: | 07-A-5820 |
| DCL Sample ID No.: | 07-33824 through 07-33826 |
| Sample Receipt Date: | 10/12/07 |
| Analysis Date: | 10/18/07 |

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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10/18/07

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

Client: Washington Closure Hanford
Location: 3718G
Set ID: 07-A-5820

| Client Sample ID: | J15PV0 | J15PV1 | J15PV1 | J15PV2 | J15PV2 |
|--------------------------------|-------------|-----------|-----------|-----------|-----------|
| DCL Sample ID: | 07-33824 | 07-33825A | 07-33825B | 07-33826A | 07-33826B |
| Macroscopic Examination | | | | | |
| Accepted/Rejected: | Accepted | Accepted | Accepted | Accepted | Accepted |
| Homogeneity: | Layered | Layered | Layered | Layered | Layered |
| | Inseparable | | | | |
| Color: | Grey/Tan | Grey | Tan | Black | Brown |
| Texture: | Crmbly/Fbrs | Compact | Crumbly | Flexible | Crumbly |
| Description: | Drywall | Tile | Mastic | Covebase | Mastic |
| Analysis: | PLM | PLM | PLM | PLM | PLM |
| Asbestiform Minerals | | | | | |
| % Chrysotile: | | | | | |
| % Amosite: | | | | | |
| % Crocidolite: | | | | | |
| % Tremolite - Actinolite: | | | | | |
| % Anthophyllite: | | | | | |
| % Total Asbestos: | ND | ND | ND | ND | ND |
| Other Materials | | | | | |
| % Cellulose: | >10 ≤ 20 | | Trace | | |
| % Fiberglass: | | | | | |
| % Other Fibers: | | | | | |
| % Resin/Binder: | | >20 ≤ 30 | >70 ≤ 80 | >20 ≤ 30 | >60 ≤ 70 |
| % Non Fibrous: | >70 ≤ 80 | >60 ≤ 70 | >10 ≤ 20 | >60 ≤ 70 | >20 ≤ 30 |

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.

| Washington Closure Hanford | | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | | | | RC-040-332 | | Page 1 of 1 | | | | | | | | | | | | | | |
|--|-------|--|-------------|---|----------------------|---------------------------------------|--|---|--|----------|--|--|--|--|--|--|--|--|--|--|--|--|
| Collector Mike Stankovich | | Company Contact MT Stankovich | | Telephone No. 531-7620 | | Project Coordinator KESSNER, JH | | Price Code 9K Data Turnaround 7 Days | | | | | | | | | | | | | | |
| Project Designation 300 Area D&D Waste Characterization Sampling - Other Soli | | Sampling Location 3718G | | SAF No. RC-040 | | | | | | | | | | | | | | | | | | |
| Ice Chest No. FEDEX BOX | | Field Logbook No. EL-1518-9 | | COA See Below | | Method of Shipment Federal Express | | | | | | | | | | | | | | | | |
| Shipped To DataChem Laboratories - Cincinnati | | Offsite Property No. A080024 | | Bill of Lading/Air Bill No. See OSPC | | | | | | | | | | | | | | | | | | |
| POSSIBLE SAMPLE HAZARDS/REMARKS Asbestos & Lead | | | | | Preservation | None | | | | | | | | | | | | | | | | |
| Special Handling and/or Storage | | | | | Type of Container | G/P | | | | | | | | | | | | | | | | |
| | | | | | No. of Container(s) | 1 | | | | | | | | | | | | | | | | |
| | | | | | Volume | 5g | | | | | | | | | | | | | | | | |
| SAMPLE ANALYSIS 07-A-5820 | | | | | Asbestos-BULK-EPA | | | | | | | | | | | | | | | | | |
| Sample No. | 07 | Matrix * | Sample Date | Sample Time | | | | | | | | | | | | | | | | | | |
| J15PV0 | 33824 | OTHER SOLID | 10/10/07 | 1400 | X | | | | | | | | | | | | | | | | | |
| J15PV1 | 33825 | OTHER SOLID | ↓ | 1405 | X | | | | | | | | | | | | | | | | | |
| J15PV2 | 33826 | OTHER SOLID | ↓ | 1410 | X | | | | | | | | | | | | | | | | | |
| 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"> S=Soil SE=Sediment SO=Solid SL=Sludge W=Water O=Oil A=Air DS=Drum Solids DL=Drum Liquids T=Tissue WH=Wipe L=Liquid V=Vegetation X=Other | | | | | | | | | |
| MT Stankovich MT Stankovich | | 10/10/07 1430 | | BMSingleton | | 10-10-07 1430 | | | | | | | | | | | | | | | | |
| Relinquished By/Removed From | | Date/Time | | Received By/Stored In | | Date/Time | | | | | | | | | | | | | | | | |
| BMSingleton | | 10-10-07 1500 | | FEDEX | | | | | | | | | | | | | | | | | | |
| Relinquished By/Removed From | | Date/Time | | Received By/Stored In | | Date/Time | | | | | | | | | | | | | | | | |
| FEDEX | | | | JW | | 10/12/07 | | | | | | | | | | | | | | | | |
| 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 | | Date/Time | | Title | | | | | | | | | | | | | | | | |
| FINAL SAMPLE DISPOSITION | | Disposal Method | | Date/Time | | Disposed By | | | | | | | | | | | | | | | | |