



TA 116

**New Mexico  
Environment Department  
Hazardous Waste Bureau**

Los Alamos National Lab  
P O Box 1663  
MS-M992  
Los Alamos, NM 87545  
Attn: Cindy Maze

07-31-2001

Invoice # - HWB-LANL-00-006

ICM Plan for Consolidated PRS 16-021(c)-99

Quantity	Item	Item Cost	Total Cost
1	ICM Plan - 1st Unit	\$1,800.00	\$1,800.00
		<b>Total Fees</b>	\$1,800.00
		<b>Adjustment</b>	\$0.00
		<b>Pay This Amount</b>	<b>\$1,800.00</b>

**Make Checks Payable to: NMED/HWB**

**Mail Checks and Invoice to:**

New Mexico Environment Department, HWB  
Attn: Cindy Abeyta  
P.O. Box 26110  
Santa Fe, NM 87502

State of New Mexico Use Only:

Date Received: \_\_\_\_\_  
Check Number: \_\_\_\_\_  
Amount Received: \_\_\_\_\_



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**Notes:**

**Comments:**

- 1.0) Soil and Sludge analysis are reported on a wet basis or an as received basis unless otherwise indicated.
- 2.0) The data in this report are within the limits of uncertainty specified in the reference method unless specified.
- 3.0) Modified analysis procedures are procedures that are modified to meet the certain specifications. An example may be the use of a water method to analyze a solid matrix due to the lack of an officially recognized procedure for the analysis of the solid matrix.
- 4.0) Derived Air Concentrations and Effluent Release Concentrations are obtained from 10 CFR 20 Appendix B
- 5.0) Total activity is actually total gamma activity and is determined utilizing the prominent gamma emitters from the naturally occurring radioactive decay chains and other prominent radioactive nuclides. Total activity may be lower than actual total activity due to the extent of secular equilibrium achieved in the various decay chains at the time of analysis. The total activity is not representative of nuclides that emit solely alpha or beta particles.
- 6.0) Ra-228 is determined via secular equilibrium with its daughter, Actinium 228. (Gamma Spectroscopy only)
- 7.0) U-238 is determined via secular equilibrium with its daughter, Thorium 234. (Gamma Spectroscopy only)
- 8.0) All Gamma spectroscopy was performed utilizing high purity germanium detectors (HPGE).

**Method References:**

- 1.0) EPA 600/4-80-032, Prescribed Procedures for the Measurement of Radioactivity in Drinking Water, August 1980.
- 2.0) Standard Methods for the Examination of Water and Waste Water, 18th, 1992
- 3.0) EPA SW-846, Test Methods for Evaluating Solid Waste, Third Edition, (9/86). (Updated through 1995)
- 4.0) EPA 600/4/79-020, Methods for Chemical Analysis of Water and Waste, March 1983.
- 5.0) HASL 300

**Definitions:**

- |       |                 |  |
|-------|-----------------|--|
| 1.0)  | BDL             | Analyte not detected because the value was below the detection limit.                  |
| 2.0)  | ND              | Not detected above the detection limit.  |
| 3.0)  | Detection Limit | The minimum amount of the analyte that ARS can detect utilizing the specific analysis. |
| 4.0)  | B               | Method Blank   |
| 5.0)  | D               | Method Duplicate   |
| 6.0)  | MS              | Matrix Spike   |
| 7.0)  | S               | Spike  |
| 8.0)  | RS              | Reference Spike  |
| 9.0)  | *SC             | Subcontracted out to another qualified laboratory                                      |
| 10.0) | NR              | Not Referenced   |

Notes: American Radiation Services, Inc assumes no liability for the use or interpretation of any analytical results provided other than the cost of the performed analysis itself. Reproduction of this report in less than full requires the written consent of the client.