



2609 North River Road Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

## American Radiation Services, Inc.

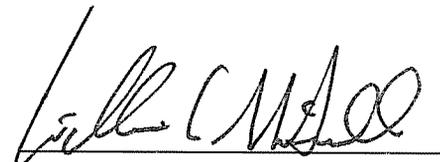
### Laboratory Analysis Report

Prepared For :

**Enercon Services  
Gerry Williams  
4115 William Penn Highway  
Murrysville, PA 15666**

**Phone: 724-733-8711  
FAX: 724-733-4630**

  
Quality Assurance Review

  
Technical Review

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

Contact Person: Questions regarding this analytical report should be addressed to William McDowell, Phd at 2609 North River Road, Port Allen, Louisiana. Phone: 225.381.2991 Fax: 225.381.2996



ARS Tracking Number: ARS042065

Request or PO Number: NA

Client ID: HMI 04-01A

ARS Sample ID: ARS042065-7607

Date Sampled: 12/16/04

Date Received: 12/20/04

Time Sampled: NA

Time Received: 1032

Type of Sample: Solid

Date of Report: 12/27/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
TH-232	0.883	0.2433	0.109	pCi/g	EPA 901.1M	12/23/04 16:18	BJD
TH-228	0.776	0.1953	0.094	pCi/g	EPA 901.1M	12/23/04 16:18	BJD
U-238	2.340	1.2459	0.999	pCi/g	EPA 901.1M	12/23/04 16:18	BJD

Notes:

*Histy Douglas*  
 Quality Assurance Review

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ARS Tracking Number: ARS042065

Request or PO Number: NA

Client ID: HMI 04-01B

ARS Sample ID: ARS042065-7608

Date Sampled: 12/16/04

Date Received: 12/20/04

Time Sampled: NA

Time Received: 1032

Type of Sample: Solid

Date of Report: 12/27/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
TH-232	0.477	0.9160	0.885	pCi/g	EPA 901.1M	12/23/04 12:58	EAM
TH-228	1.090	0.3570	0.407	pCi/g	EPA 901.1M	12/23/04 12:58	EAM
U-238	3.440	4.4900	3.870	pCi/g	EPA 901.1M	12/23/04 12:58	EAM

Notes:

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ARS Tracking Number: ARS042065

Request or PO Number: NA

Client ID: HMI 04-02

ARS Sample ID: ARS042065-7609

Date Sampled: 12/14/04

Date Received: 12/20/04

Time Sampled: NA

Time Received: 1032

Type of Sample: Solid

Date of Report: 12/27/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
TH-232	0.227	0.1860	0.108	pCi/g	EPA 901.1M	12/23/04 15:46	BJD
TH-228	0.310	0.1366	0.0716	pCi/g	EPA 901.1M	12/23/04 15:46	BJD
U-238	-0.363	-1.952	0.829	pCi/g	EPA 901.1M	12/23/04 15:46	BJD

Notes:

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ARS Tracking Number: ARS042065

Request or PO Number: NA

Client ID: HMI 04-03

ARS Sample ID: ARS042065-7610

Date Sampled: 12/14/04

Date Received: 12/20/04

Time Sampled: NA

Time Received: 1032

Type of Sample: Solid

Date of Report: 12/27/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
TH-232	1.010	0.7300	0.900	pCi/g	EPA 901.1M	12/23/04 17:46	BJD
TH-228	0.361	0.1830	0.289	pCi/g	EPA 901.1M	12/23/04 17:46	BJD
U-238	0.480	5.020	3.990	pCi/g	EPA 901.1M	12/23/04 17:46	BJD

Notes:

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ARS Tracking Number: ARS042065

Request or PO Number: NA

Client ID: HMI 04-06B

ARS Sample ID: ARS042065-7614

Date Sampled: 12/14/04

Date Received: 12/20/04

Time Sampled: NA

Time Received: 1032

Type of Sample: Solid

Date of Report: 12/27/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
TH-232	1.170	0.5390	0.869	pCi/g	EPA 901.1M	12/23/04 11:43	EAM
TH-228	1.100	0.0306	0.403	pCi/g	EPA 901.1M	12/23/04 11:43	EAM
U-238	4.120	0.0447	0.402	pCi/g	EPA 901.1M	12/23/04 11:43	EAM

Notes:

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ARS Tracking Number: ARS042065

Request or PO Number: NA

Client ID: HMI 04-07

ARS Sample ID: ARS042065-7615

Date Sampled: 12/14/04

Date Received: 12/20/04

Time Sampled: NA

Time Received: 1032

Type of Sample: Solid

Date of Report: 12/27/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
TH-232	1.124	0.2619	0.109	pCi/g	EPA 901.1M	12/23/04 14:26	EAM
TH-228	1.358	0.2243	0.068	pCi/g	EPA 901.1M	12/23/04 14:26	EAM
U-238	0.000	0.000	1.190	pCi/g	EPA 901.1M	12/23/04 14:26	EAM

Notes:

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ARS Tracking Number: ARS042065

Request or PO Number: NA

Client ID: HMI 04-08

ARS Sample ID: ARS042065-7616

Date Sampled: 12/14/04

Date Received: 12/20/04

Time Sampled: NA

Time Received: 1032

Type of Sample: Solid

Date of Report: 12/27/04

Analysis Description	Analysis Results	Analysis Error +/- 2 Sigma	MDC	Analysis Units	Analysis Test Method	Analysis Date / Time	Analysis Technician
TH-232	3.321	0.4613	0.168	pCi/g	EPA 901.1M	12/23/04 13:54	EAM
TH-228	3.750	0.3763	0.111	pCi/g	EPA 901.1M	12/23/04 13:54	EAM
U-238	2.995	1.6946	1.600	pCi/g	EPA 901.1M	12/23/04 13:54	EAM

Notes:

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 Quality Assurance Review

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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 the 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 Measurements of Radioactivity in Drinking Water, August 1980.
- 2.0) Standard Methods for 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   |
| 11.0) N/A            | Not Applicable   |

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Client: Emercon Services

3-Day Lat

Date: 12/20/04

Address: 4115 William Penn Hwy.  
Murrysville, PA 15668

Phone #: 724-733-8711

Purchase Order #: \_\_\_\_\_

Fax #: 724-733-4430

Job #: \_\_\_\_\_

Contact: Gerry Williams

Date	Time	Sample ID.	Type	# of Containers	Radiochemistry							Gamma Spectroscopy				
					Gross		Ra-226	Ra-228	Total Radium	Sr89/Sr90	Nat. Uran.	Am/Pu/Th/U	Fission	Natural (Norm)	Total Gamma	Other
					Alpha	Beta										
12/16/04	10:00	HMI 04-01A	S	1									✓			
12/16/04		04-01B											✓			
12/14/04		04-02											✓			
12/14/04		04-03											✓			
12/14/04		04-04											✓			
12/14/04		04-05											✓			
12/14/04		04-06A											✓			
12/14/04		04-06B											✓			
12/14/04		04-07											✓			
12/14/04		04-08											✓			

Relinquished By: (Signature)	Date	Time	Received By: (Signature)	Date	Time
			<u>Elyse McQuinn</u>	<u>12/20/04</u>	<u>1032</u>

Client: Enercon Services

3-Day tot

Date: 12/20/04

Address: 4115 William Penn Hwy  
Murrysville, PA 15068  
 6 AM  
 12/20/04

Phone #: 724-733-8711  
 Fax #: \_\_\_\_\_

Purchase Order #: \_\_\_\_\_

Job #: \_\_\_\_\_  
 Contact: Perry Williams

Date	Time	Sample ID.	Type	# of Containers	Radiochemistry							Gamma Spectroscopy							
					Gross		Ra-226	Ra-228	Total Radium	Sr89/Sr90	Nat. Uran.	Am/Pu/Th/U	Fission	Natural (Norm)	Total Gamma	Other			
					Alpha	Beta													
12/16/04	NA	HMI 04-09A	S	1															
12/16/04	↓	↓	↓	↓															
12/16/04	↓	↓	↓	↓															

Relinquished By: (Signature)	Date	Time	Received By: (Signature)	Date	Time
			<u>Elizabeth McHenry</u>	<u>12/20/04</u>	<u>1032</u>

**Select Departing Flight - Providence, RI to Pittsburgh, PA (Thursday, December 01 2005)**

Depart Time:  Depart Date:

These fares do not include government fees and taxes.

More Fares → → → → →

Flights	Departs	Arrives	Stops	Refundable Anytime \$158	Special Fares \$153	Restricted Fares Unavailable	Advance Purchase Unavailable	Fun Fa Unavaila
2492/2504	7:45am	1:15pm	PHL/1	<input type="radio"/>	<input type="radio"/>	Unavailable	Unavailable	Unavaila
1287/1531	10:05am	4:40pm	PHL/1	<input type="radio"/>	<input type="radio"/>	Unavailable	Unavailable	Unavaila
2160/641	1:50pm	5:45pm	PHL/1	<input type="radio"/>	<input type="radio"/>	Unavailable	Unavailable	Unavaila
2161/199	5:20pm	8:55pm	PHL/1	<input type="radio"/>	<input type="radio"/>	Unavailable	Unavailable	Unavaila

**Select Returning Flight - Pittsburgh, PA to Providence, RI (Friday, December 09 2005)**

Return Time:  Return Date:

These fares do not include government fees and taxes.

More Fares → → → → →

Flights	Departs	Arrives	Stops	Refundable Anytime \$158	Special Fares \$153	Restricted Fares \$149	Advance Purchase \$129	Fun Fa \$105
1867/2538	6:45am	11:20am	PHL/1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1968/863	10:20am	4:25pm	PHL/1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
803/2332	2:50pm	6:15pm	PHL/1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2174/1884	5:10pm	10:30pm	PHL/1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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- All fares and fare ranges listed are per person for each way of travel.
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- N/S = Nonstop; Numeral indicates total number of stops on same plane (direct) flights.
- City code with a numeral indicates city where change of plane occurs and the number of stops including the connect

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