Is AZOMITE® Radioactive?

No. AZOMITE® is not radioactive and does not have the capacity to emit alpha particles, which can harm humans or animals.

The following gross alpha/beta test report prepared by the ALS Environmental Laboratory Group of Fort Collins, Colorado, reveal that the alpha radiation values present in AZOMITE® are lower than those from a sample taken from the ALS parking lot.

Beta emission is actually consistent with the potassium in AZOMITE®.

AZOMITE®’s alpha number, averaged from 6 samples, gave a value of 5.8 pCi/g. A value greater than 20 pCi/g is required to even warrant documentation.
1. This report consists of the analytical results for nine solid samples received by ALS on 07/19/2012.

2. These samples were prepared according to the current revision of SOP 702, with procedure modifications outlined in QASS #422608.

3. The samples were analyzed for gross alpha and beta activity by gas flow proportional counting according to the current revision of SOP 724. The analyses were completed on 07/27/2012. Gross alpha results are referenced to $^{241}$Am. Gross beta results are referenced to $^{90}$Sr/$^{Y}$.

4. The analysis results for these samples are reported on an ‘As Received’ basis in units of pCi/gram.

5. The samples were and the QC samples for both batches were flamed, as prescribed in the current revision of SOP 702 for solid sample analyses. This could reduce the beta activity if the samples contained $^{137}$Cs, or other beta emitters, that may be volatile under the conditions associated with flaming.

6. The radiometric recovery for the matrix spike of sample 1207221-4 is below the lower control limit of 70% at -13.8% for gross alpha and -21.8 for gross beta. It appears due to an oversight, the matrix spike was not spiked. All other quality control criteria have been met. ALS does not control on matrix spike recovery. The results for this sample are considered an estimated value and per project manager’s instruction, the results are submitted without further qualification.
7. No further anomalous situations were encountered during the preparation or analysis of these samples. All remaining quality control criteria were met.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

[Linda Arend's signature]
Radiochemistry Primary Data Reviewer
07/29/12
Date

[Another signature]
Radiochemistry Final Data Reviewer
07/30/12
Date
# ALS Environmental -- FC

## Sample Number(s) Cross-Reference Table

**Order Num:** 1207221  
**Client Name:** AZOMITE Mineral Products, Inc.  
**Client Project Name:** Radiation  
**Client Project Number:**  
**Client PO Number:**

<table>
<thead>
<tr>
<th>Client Sample Number</th>
<th>Lab Sample Number</th>
<th>COC Number</th>
<th>Matrix</th>
<th>Date Collected</th>
<th>Time Collected</th>
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<tbody>
<tr>
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<td>1207221-1</td>
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</table>
ALS Laboratory Group
225 Commerce Drive, Fort Collins, Colorado 80524
TF: (800) 443-1511 PH: (970) 495-1511 FX: (970) 490-1522

Chain-of-Custody

Form 2028

<table>
<thead>
<tr>
<th>WORKORDER</th>
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<table>
<thead>
<tr>
<th>PROJECT NAME</th>
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<td>PROJECT No.</td>
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<tr>
<td>SITE ID</td>
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<td>EDD FORMAT</td>
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<tr>
<td>PURCHASE ORDER</td>
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<table>
<thead>
<tr>
<th>COMPANY NAME</th>
<th>AZOMITE Mineral Products, Inc.</th>
</tr>
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<tbody>
<tr>
<td>BILL TO COMPANY</td>
<td>AZOMITE Mineral Products, Inc.</td>
</tr>
<tr>
<td>INVOICE ATTN TO</td>
<td>Jim Phillips</td>
</tr>
<tr>
<td>ADDRESS</td>
<td>PO Box 21</td>
</tr>
<tr>
<td>PHONE</td>
<td>435-623-8007</td>
</tr>
<tr>
<td>FAX</td>
<td>435-623-8009</td>
</tr>
<tr>
<td>E-MAIL</td>
<td><a href="mailto:jim@azomite.com">jim@azomite.com</a></td>
</tr>
</tbody>
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Lab ID | Field ID | Matrix | Sample Date | Sample Time | # Bottles | Pres. | QC |
<table>
<thead>
<tr>
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<td></td>
<td>7/18/2012</td>
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<td></td>
</tr>
</tbody>
</table>

*Time Zone (Circle): EST CST MST PST  Matrix: O = oil  S = soil  NS = non-soil solid  W = water  L = liquid  E = extract  F = filter

For metals or analytes, please detail analytes below.

Comments:

QC PACKAGE (check below)
- LEVEL I (Standard QC)
- LEVEL III (Std QC + forms)
- LEVEL IV (Std QC + forms + raw data)


Signature: [Signature]
Printed Name: [Printed Name]
Date: [Date]
Time: [Time]
**ALS Environmental - Fort Collins**

**CONDITION OF SAMPLE UPON RECEIPT FORM**

Client: A Z E M 1 + 8  

Project Manager: L S  

Workorder No: 1 2 C 7 2 2 1  

Initials: C O T  

Date: 7-19-12  

---

<table>
<thead>
<tr>
<th>Question</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Does this project require any special handling in addition to standard ALS procedures?</td>
<td>YES</td>
<td>NO</td>
</tr>
<tr>
<td>Are custody seals on shipping containers intact?</td>
<td>NONE</td>
<td>YES NO</td>
</tr>
<tr>
<td>Are Custody seals on sample containers intact?</td>
<td>NONE</td>
<td>YES NO</td>
</tr>
<tr>
<td>Is there a COC (Chain-of-Custody) present or other representative documents?</td>
<td>YES</td>
<td>NO</td>
</tr>
<tr>
<td>Are the COC and bottle labels complete and legible?</td>
<td>YES</td>
<td>NO</td>
</tr>
<tr>
<td>Is the COC in agreement with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)</td>
<td>YES</td>
<td>NO</td>
</tr>
<tr>
<td>Were airbills / shipping documents present and/or removable?</td>
<td>DROP OFF</td>
<td>YES NO</td>
</tr>
<tr>
<td>Are all aqueous samples requiring preservation preserved correctly? (excluding volatiles)</td>
<td>N/A</td>
<td>YES NO</td>
</tr>
<tr>
<td>Are all aqueous non-preserved samples pH 4-9?</td>
<td>N/A</td>
<td>YES NO</td>
</tr>
<tr>
<td>Is there sufficient sample for the requested analyses?</td>
<td>YES</td>
<td>NO</td>
</tr>
<tr>
<td>Were all samples placed in the proper containers for the requested analyses?</td>
<td>YES</td>
<td>NO</td>
</tr>
<tr>
<td>Are all samples within holding times for the requested analyses?</td>
<td>YES</td>
<td>NO</td>
</tr>
<tr>
<td>Were all sample containers received intact? (not broken or leaking, etc.)</td>
<td>YES</td>
<td>NO</td>
</tr>
<tr>
<td>Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon) headspace free?</td>
<td>N/A</td>
<td>YES NO</td>
</tr>
<tr>
<td>Size of bubble:  4 green pea  8 green pea</td>
<td>N/A</td>
<td>YES NO</td>
</tr>
<tr>
<td>Do any water samples contain sediment? Amount</td>
<td>N/A</td>
<td>YES NO</td>
</tr>
<tr>
<td>Amount of sediment:    ____ dusting    ____ moderate    ____ heavy</td>
<td>N/A</td>
<td>YES NO</td>
</tr>
<tr>
<td>Were the samples shipped on ice?</td>
<td>YES</td>
<td>NO</td>
</tr>
<tr>
<td>Were cooler temperatures measured at 0.1-6.0°C? IR gun used*: #2 #4 (RAD ONLY)</td>
<td>YES</td>
<td>NO</td>
</tr>
<tr>
<td>Cooler #:</td>
<td>1</td>
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<tr>
<td>Temperature (°C):</td>
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<td></td>
</tr>
<tr>
<td>No. of custody seals on cooler:</td>
<td>1</td>
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<tr>
<td>External Î¼R/hr reading:</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Background Î¼R/hr reading:</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

**DOT Survey Acceptance Information**

Were external Î¼R/hr readings ≤ two times background and within DOT acceptance criteria? (YES) NO / NA  (If no, see Form 008.)

**Additional Information:** PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #1 AND #16.

If applicable, was the client contacted? YES / NO / NA  Contact:  

Date/Time:  

**Project Manager Signature / Date:**

*IR Gun #2: Oakton, SN 29922500201-0066  
*IR Gun #4: Oakton, SN 2372220101-0002
Gross Alpha/Beta Analysis by GFPC
PAI 724 Rev 11
Method Blank Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1207221
Client Name: AZOMITE Mineral Products, Inc.
Client Project ID: Radiation

<table>
<thead>
<tr>
<th>CASNO</th>
<th>Target Nuclide</th>
<th>Result +/- 2 s TPU</th>
<th>MDC</th>
<th>Requested MDC</th>
<th>Lab Qualifier</th>
</tr>
</thead>
<tbody>
<tr>
<td>12587-46-1</td>
<td>GROSS ALPHA</td>
<td>-0.06 +/- 0.13</td>
<td>0.42</td>
<td>3</td>
<td>U</td>
</tr>
<tr>
<td>12587-47-2</td>
<td>GROSS BETA</td>
<td>0.13 +/- 0.27</td>
<td>0.63</td>
<td>4</td>
<td>U</td>
</tr>
</tbody>
</table>

Comments:

 Qualifiers/Flags:
U - Result is less than the sample specific MDC.
Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
Y2 - Chemical Yield outside default limits.
LT - Result is less than Requested MDC, greater than sample specific MDC.

Abbreviations:
TPU - Total Propagated Uncertainty
MDC - Minimum Detectable Concentration
BDL - Below Detection Limit

M - Requested MDC not met.
B - Analyte concentration greater than MDC.
B3 - Analyte concentration greater than MDC but less than Requested MDC.

Data Package ID: AB1207221-1

Date Printed: Sunday, July 29, 2012
ALS Environmental -- FC
Gross Alpha/Beta Analysis by GFPC
PAI 724 Rev 11
Method Blank Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1207221
Client Name: AZOMITE Mineral Products, Inc.
Client Project ID: Radiation

<table>
<thead>
<tr>
<th>CASNO</th>
<th>Target Nuclide</th>
<th>Result +/- 2 s TPU</th>
<th>MDC</th>
<th>Requested MDC</th>
<th>Lab Qualifier</th>
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</thead>
<tbody>
<tr>
<td>12587-46-1</td>
<td>GROSS ALPHA</td>
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<td>0.36</td>
<td>3</td>
<td>U</td>
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<td>GROSS BETA</td>
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<td>0.58</td>
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<td>U</td>
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Comments:

Qualifiers/Flags:
U - Result is less than the sample specific MDC.
Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
Y2 - Chemical Yield outside default limits.
LT - Result is less than Requested MDC, greater than sample specific MDC.

Abbreviations:
TPU - Total Propagated Uncertainty
MDC - Minimum Detectable Concentration
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M - Requested MDC not met.
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B3 - Analyte concentration greater than MDC but less than Requested MDC.

Data Package ID: AB1207221-1
Gross Alpha/Beta Analysis by GFPC
PAI 724 Rev 11
Laboratory Control Sample(s)

Lab Name: ALS Environmental -- FC
Work Order Number: 1207221
Client Name: AZOMITE Mineral Products, Inc.
ClientProject ID: Radiation

Sample Matrix: SOLID
Prep SOP: PAI 702 Rev 20
Prep Batch: AB120725-1
QCBatchID: AB120725-1-3
Run ID: AB120725-1A
Count Time: 30 minutes
Final Aliquot: 2.00 g
Result Units: pCi/g
File Name: ABC0727B

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<th>CASNO</th>
<th>Target Nuclide</th>
<th>Results +/- 2s TPU</th>
<th>MDC</th>
<th>Spike Added</th>
<th>% Rec</th>
<th>Control Limits</th>
<th>Lab Qualifier</th>
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<tbody>
<tr>
<td>12587-46-1</td>
<td>GROSS ALPHA</td>
<td>13.8 +/- 2.6</td>
<td>0.5</td>
<td>14.77</td>
<td>93.3</td>
<td>70 - 130</td>
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<td>12587-47-2</td>
<td>GROSS BETA</td>
<td>14.2 +/- 2.5</td>
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<td>14.55</td>
<td>97.8</td>
<td>70 - 130</td>
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Comments:

Qualifier/Flags:
U - Result is less than the sample specific MDC.
LT - Result is less than Requested MDC, greater than sample specific MDC.
Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
Y2 - Chemical Yield outside default limits.
L - LCS Recovery below lower control limit.
H - LCS Recovery above upper control limit.
P - LCS Recovery within control limits.
M - The requested MDC was not met.
M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

Data Package ID: AB1207221-1
## Gross Alpha/Beta Analysis by GFPC

**PAI 724 Rev 11**  
**Laboratory Control Sample(s)**

<table>
<thead>
<tr>
<th>Lab ID:</th>
<th>AB120725-2LCS</th>
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<tbody>
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<td><strong>Sample Matrix:</strong></td>
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<tr>
<td><strong>Prep SOP:</strong></td>
<td>PAI 702 Rev 20</td>
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<td><strong>Prep Batch:</strong></td>
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<tr>
<td><strong>QCBatchID:</strong></td>
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<tr>
<td><strong>Run ID:</strong></td>
<td>AB120725-2A</td>
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<td><strong>Count Time:</strong></td>
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<td><strong>Final Aliquot:</strong></td>
<td>2.00 g</td>
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<td><strong>Result Units:</strong></td>
<td>pCi/g</td>
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### CASNO and Target Nuclide Results

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<th>Target Nuclide</th>
<th>Results +/- 2s TPU</th>
<th>MDC</th>
<th>Spike Added</th>
<th>% Rec.</th>
<th>Control Limits</th>
<th>Lab Qualifier</th>
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<tbody>
<tr>
<td>12587-46-1</td>
<td>GROSS ALPHA</td>
<td>13.5 +/- 2.6</td>
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<td>14.77</td>
<td>91.7</td>
<td>70 - 130</td>
<td>P</td>
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<td>12587-47-2</td>
<td>GROSS BETA</td>
<td>13.7 +/- 2.4</td>
<td>1.0</td>
<td>14.55</td>
<td>93.9</td>
<td>70 - 130</td>
<td>P</td>
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### Comments:

- **Qualifier/Flags:**
  - U - Result is less than the sample specific MDC.
  - LT - Result is less than Requested MDC, greater than sample specific MDC.
  - Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
  - Y2 - Chemical Yield outside default limits.
  - L - LCS Recovery below lower control limit.
  - H - LCS Recovery above upper control limit.
  - P - LCS Recovery within control limits.
  - M - The requested MDC was not met.
  - M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

### Data Package ID:

**AB120721-1**

---

**Date Printed:** Sunday, July 29, 2012  
**ALS Environmental -- FC**  
**LIMS Version:** 6.604
Gross Alpha/Beta Analysis by GFPC

PAI 724 Rev 11
Matrix Spike Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1207221
Client Name: AZOMITE Mineral Products, Inc.
Client Project ID: Radiation

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<thead>
<tr>
<th>CASNO</th>
<th>Target Nuclide</th>
<th>Matrix Spike</th>
<th>Sample Results</th>
<th>MDC</th>
<th>Spike Added</th>
<th>% Rec</th>
<th>Control Limits</th>
<th>Lab Qualifier</th>
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</thead>
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<tr>
<td>12587-46-1</td>
<td>GROSS ALPHA</td>
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<td>6.9</td>
<td>1.5</td>
<td>14.2</td>
<td>-13.8</td>
<td>70 - 130</td>
<td>N</td>
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<tr>
<td>12587-47-2</td>
<td>GROSS BETA</td>
<td>22.5</td>
<td>25.6</td>
<td>2.8</td>
<td>14.0</td>
<td>-21.8</td>
<td>70 - 130</td>
<td>N</td>
</tr>
</tbody>
</table>

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC.
LT - Result is less than Requested MDC, greater than sample specific MDC.
Y1 - Chemical Yield in control at 100-110%. Quantitative yield is assumed.
Y2 - Chemical Yield outside default limits.
N - Matrix Spike Recovery outside control limits
P - Matrix Spike Recovery within control limits
M - The requested MDC was not met.
M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

Abbreviations:

MDC - Minimum Detectable Concentration

Data Package ID: AB1207221-1

Date Printed: Sunday, July 29, 2012
ALS Environmental -- FC
LIMS Version: 6.604
# Gross Alpha/Beta Analysis by GFPC

## PAI 724 Rev 11

### Duplicate Sample Results (DER)

**Lab Name:** ALS Environmental -- FC  
**Work Order Number:** 1207221  
**Client Name:** AZOMITE Mineral Products, Inc.  
**ClientProject ID:** Radiation

<table>
<thead>
<tr>
<th>Field ID:</th>
<th>Lab ID: 1207221-1DUP</th>
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<tr>
<td>Sample Matrix:</td>
<td>SOLID</td>
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<td>PAI 702 Rev 20</td>
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<tr>
<td>Date Collected:</td>
<td>18-Jul-12</td>
</tr>
<tr>
<td>Date Prepared:</td>
<td>25-Jul-12</td>
</tr>
<tr>
<td>Date Analyzed:</td>
<td>27-Jul-12</td>
</tr>
<tr>
<td>Prep Batch:</td>
<td>AB120725-2</td>
</tr>
<tr>
<td>QCBatchID:</td>
<td>AB120725-2-1</td>
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<tr>
<td>Run ID:</td>
<td>AB120725-2A</td>
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<tr>
<td>Report Basis:</td>
<td>As Received</td>
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<tr>
<td>Final Aliquot:</td>
<td>0.530 g</td>
</tr>
<tr>
<td>Prep Basis:</td>
<td>As Received</td>
</tr>
<tr>
<td>Moisture(%):</td>
<td>NA</td>
</tr>
<tr>
<td>Result Units:</td>
<td>pCi/g</td>
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<tr>
<td>File Name:</td>
<td>ABB0727</td>
</tr>
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### CASNO Analyte Sample Duplicate DER DER Lim

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<thead>
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<th>MDC</th>
<th>Flags</th>
<th>Result +/- 2 s TPU</th>
<th>MDC</th>
<th>Flags</th>
<th>DER</th>
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<tbody>
<tr>
<td>12587-46-1</td>
<td>GROSS ALPHA</td>
<td>8.0 +/- 2.8</td>
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<td>1.6</td>
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<td>12587-47-2</td>
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**Comments:**

**Duplicate Qualifiers/Flags:**

- **U** - Result is less than the sample specific MDC.
- **Y1** - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.
- **Y2** - Chemical Yield outside default limits.
- **W** - DER is greater than Warning Limit of 1.42
- **D** - DER is greater than Control Limit of 2.13
- **LT** - Result is less than Request MDC, greater than sample specific MDC
- **M** - Requested MDC not met.
- **M3** - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- **L** - LCS Recovery below lower control limit.
- **H** - LCS Recovery above upper control limit.
- **P** - LCS, Matrix Spike Recovery within control limits.
- **N** - Matrix Spike Recovery outside control limits

**Data Package ID:** AB1207221-1

**Date Printed:** Sunday, July 29, 2012  
**ALS Environmental -- FC**  
**LIMS Version:** 6.604

---

12 of 23
Gross Alpha/Beta Analysis by GFPC
PAI 724 Rev 11
Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1207221
Client Name: AZOMITE Mineral Products, Inc.
ClientProject ID: Radiation

<table>
<thead>
<tr>
<th>Field ID</th>
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<tbody>
<tr>
<td>1</td>
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Sample Matrix: SOLID
Prep SOP: PAI 702 Rev 20
Date Collected: 18-Jul-12
Date Prepared: 25-Jul-12
Date Analyzed: 27-Jul-12

Prep Batch: AB120725-2
QCBatchID: AB120725-2-1
Run ID: AB120725-2A
Count Time: 30 minutes
Report Basis: As Received

Final Aliquot: 0.509 g
Prep Basis: As Received
Moisture(%): NA
Result Units: pCi/g
File Name: ABB0727

<table>
<thead>
<tr>
<th>CASNO</th>
<th>Target Nuclide</th>
<th>Result +/- 2 s TPU</th>
<th>MDC</th>
<th>Requested MDC</th>
<th>Lab Qualifier</th>
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</thead>
<tbody>
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<td>12587-46-1</td>
<td>GROSS ALPHA</td>
<td>8.0 +/- 2.8</td>
<td>2.0</td>
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</tr>
<tr>
<td>12587-47-2</td>
<td>GROSS BETA</td>
<td>29.0 +/- 5.6</td>
<td>2.6</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

Comments:

Qualifiers/Flags:
U - Result is less than the sample specific MDC.
Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
Y2 - Chemical Yield outside default limits.
LT - Result is less than Requested MDC, greater than sample specific MDC.
M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
M - The requested MDC was not met.

Abbreviations:
TPU - Total Propagated Uncertainty
MDC - Minimum Detectable Concentration
BDL - Below Detection Limit

Data Package ID: AB1207221-1
# Gross Alpha/Beta Analysis by GFPC

**PAI 724 Rev 11**  
**Sample Duplicate Results**

<table>
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**Sample Matrix:** SOLID  
**Prep SOP:** PAI 702 Rev 20  
**Prep Batch:** AB120725-2  
**Date Collected:** 18-Jul-12  
**Date Prepared:** 25-Jul-12  
**Date Analyzed:** 27-Jul-12  
**Final Aliquot:** 0.530 g  
**Prep Basis:** As Received  
**Moisture(%)** NA  
**Count Time:** 30 minutes  
**Report Basis:** As Received  
**Run ID:** AB120725-2A  
**QCBatchID:** AB120725-2-1  
**File Name:** ABB0727  

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<th>MDC</th>
<th>Requested MDC</th>
<th>Lab Qualifier</th>
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</thead>
<tbody>
<tr>
<td>12587-46-1</td>
<td>GROSS ALPHA</td>
<td>7.1 +/- 2.4</td>
<td>1.6</td>
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<tr>
<td>12587-47-2</td>
<td>GROSS BETA</td>
<td>23.4 +/- 4.6</td>
<td>2.5</td>
<td>4</td>
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**Comments:**

**Qualifiers/Flags:**

- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.
- Y2 - Chemical Yield outside default limits.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- M - The requested MDC was not met.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- W - DER is greater than Warning Limit of 1.42
- D - DER is greater than Control Limit of 2.13

**Abbreviations:**

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration
- BDL - Below Detection Limit

**Data Package ID:** AB1207221-1
Gross Alpha/Beta Analysis by GFPC
PAI 724 Rev 11
Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1207221
Client Name: AZOMITE Mineral Products, Inc.
ClientProject ID: Radiation

<table>
<thead>
<tr>
<th>Field ID</th>
<th>Lab ID</th>
<th>Sample Matrix</th>
<th>Prep SOP</th>
<th>Prep Batch</th>
<th>QCBatchID</th>
<th>Run ID</th>
<th>Count Time</th>
<th>Report Basis</th>
<th>Final Aliquot</th>
<th>Prep Basis</th>
<th>Moisture (%)</th>
<th>Result Units</th>
<th>File Name</th>
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<tbody>
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<td>PAI 702 Rev 20</td>
<td>AB120725-2</td>
<td>AB120725-2-1</td>
<td>AB120725-2A</td>
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<td>As Received</td>
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<td>As Received</td>
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<td>pCi/g</td>
<td>ABB0727</td>
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<table>
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<th>MDC</th>
<th>Requested MDC</th>
<th>Lab Qualifier</th>
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</thead>
<tbody>
<tr>
<td>12587-46-1</td>
<td>GROSS ALPHA</td>
<td>3.2 +/- 1.6</td>
<td>1.6</td>
<td>3</td>
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<tr>
<td>12587-47-2</td>
<td>GROSS BETA</td>
<td>24.3 +/- 4.8</td>
<td>2.8</td>
<td>4</td>
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</tbody>
</table>

Comments:

Qualifiers/Flags:
- U: Result is less than the sample specific MDC.
- Y1: Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2: Chemical Yield outside default limits.
- LT: Result is less than Requested MDC, greater than sample specific MDC.
- M3: The requested MDC was not met, but the reported activity is greater than the reported MDC.
- M: The requested MDC was not met.

Abbreviations:
- TPU: Total Propagated Uncertainty
- MDC: Minimum Detectable Concentration
- BDL: Below Detection Limit

Data Package ID: AB1207221-1

Date Printed: Sunday, July 29, 2012
ALS Environmental -- FC
LIMS Version: 6.604
Gross Alpha/Beta Analysis by GFPC

PAI 724 Rev 11
Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1207221
Client Name: AZOMITE Mineral Products, Inc.
Client Project ID: Radiation

Field ID: 3
Lab ID: 1207221-3

Sample Matrix: SOLID
Prep SOP: PAI 702 Rev 20
Date Collected: 18-Jul-12
Date Prepared: 25-Jul-12
Date Analyzed: 27-Jul-12

Prep Batch: AB120725-2
QC Batch ID: AB120725-2-1
Run ID: AB120725-2A
Count Time: 30 minutes
Report Basis: As Received
Final Aliquot: 0.504 g
Prep Basis: As Received
Moisture(%): NA
Result Units: pCi/g
File Name: ABB0727

<table>
<thead>
<tr>
<th>CASNO</th>
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<th>MDC</th>
<th>Requested MDC</th>
<th>Lab Qualifier</th>
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<tbody>
<tr>
<td>12587-46-1</td>
<td>GROSS ALPHA</td>
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<td>1.7</td>
<td>3</td>
<td></td>
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<tr>
<td>12587-47-2</td>
<td>GROSS BETA</td>
<td>24.5 +/- 4.9</td>
<td>2.7</td>
<td>4</td>
<td></td>
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</tbody>
</table>

Comments:

Qualifiers/Flags:
U - Result is less than the sample specific MDC.
Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
Y2 - Chemical Yield outside default limits.
LT - Result is less than Requested MDC, greater than sample specific MDC.
M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
M - The requested MDC was not met.

Abbreviations:
TBP - Total Propagated Uncertainty
MDC - Minimum Detectable Concentration
BDL - Below Detection Limit

Data Package ID: AB1207221-1
Gross Alpha/Beta Analysis by GFPC
PAI 724 Rev 11
Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1207221
Client Name: AZOMITE Mineral Products, Inc.
Client Project ID: Radiation

Field ID: 4
Lab ID: 1207221-4

Sample Matrix: SOLID
Prep SOP: PAI 702 Rev 20
Date Collected: 18-Jul-12
Date Prepared: 25-Jul-12
Date Analyzed: 27-Jul-12

Prep Batch: AB120725-2
GC Batch ID: AB120725-2-1
Run ID: AB120725-2A
Count Time: 30 minutes
Report Basis: As Received

Final Aliquot: 0.508 g
Prep Basis: As Received
Moisture(%): NA
Result Units: pCi/g
File Name: ABB0727

<table>
<thead>
<tr>
<th>CASNO</th>
<th>Target Nuclide</th>
<th>Result +/- 2 s TPU</th>
<th>MDC</th>
<th>Requested MDC</th>
<th>Lab Qualifier</th>
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<tbody>
<tr>
<td>12587-46-1</td>
<td>GROSS ALPHA</td>
<td>6.9 +/- 2.4</td>
<td>1.6</td>
<td>3</td>
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<tr>
<td>12587-47-2</td>
<td>GROSS BETA</td>
<td>25.6 +/- 5.0</td>
<td>2.5</td>
<td>4</td>
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</table>

Comments:

Qualifier/Flags:
U - Result is less than the sample specific MDC.
Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
Y2 - Chemical Yield outside default limits.
LT - Result is less than Requested MDC, greater than sample specific MDC.
M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
M - The requested MDC was not met.

Abbreviations:
TNU - Total Propagated Uncertainty
MDC - Minimum Detectable Concentration
BDL - Below Detection Limit

Data Package ID: AB1207221-1

Date Printed: Sunday, July 29, 2012
Gross Alpha/Beta Analysis by GFPC

PAI 724 Rev 11
Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1207221
Client Name: AZOMITE Mineral Products, Inc.
Client Project ID: Radiation

<table>
<thead>
<tr>
<th>Field ID:</th>
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<tr>
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Sample Matrix: SOLID
Prep SOP: PAI 702 Rev 20
Date Collected: 18-Jul-12
Date Prepared: 25-Jul-12
Date Analyzed: 27-Jul-12
Prep Batch: AB120725-2
QCBatchID: AB120725-2-1
Run ID: AB120725-2A
Count Time: 30 minutes
Report Basis: As Received
Final Aliquot: 0.505 g
Prep Basis: As Received
Moisture(%): NA
Result Units: pCi/g
File Name: ABB0727A

<table>
<thead>
<tr>
<th>CASNO</th>
<th>Target Nuclide</th>
<th>Result +/- 2 s TPU</th>
<th>MDC</th>
<th>Requested MDC</th>
<th>Lab Qualifier</th>
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<tbody>
<tr>
<td>12587-46-1</td>
<td>GROSS ALPHA</td>
<td>6.8 +/- 2.4</td>
<td>1.7</td>
<td>3</td>
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</tr>
<tr>
<td>12587-47-2</td>
<td>GROSS BETA</td>
<td>15.7 +/- 3.5</td>
<td>2.6</td>
<td>4</td>
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Comments:

Qualifiers/Flags:
U - Result is less than the sample specific MDC.
Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
Y2 - Chemical Yield outside default limits.
LT - Result is less than Requested MDC, greater than sample specific MDC.
M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
M - The requested MDC was not met.

Abbreviations:
TPU - Total Propagated Uncertainty
MDC - Minimum Detectable Concentration
BDL - Below Detection Limit

Data Package ID: AB1207221-1

Date Printed: Sunday, July 29, 2012
Gross Alpha/Beta Analysis by GFPC

Lab Name: ALS Environmental -- FC
Work Order Number: 1207221
Client Name: AZOMITE Mineral Products, Inc.
Client Project ID: Radiation

| Field ID: 6 | Lab ID: 1207221-6 |

Sample Matrix: SOLID  
Prep SOP: PAI 702 Rev 20  
Date Collected: 18-Jul-12  
Date Prepared: 25-Jul-12  
Date Analyzed: 27-Jul-12  
Prep Batch: AB120725-2  
QCBatchID: AB120725-2-1  
Run ID: AB120725-2A  
Count Time: 30 minutes  
Report Basis: As Received  
Final Aliquot: 0.504 g  
Prep Basis: As Received  
Moisture(%): NA  
Result Units: pCi/g  
File Name: ABB0727A

<table>
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<th>CASNO</th>
<th>Target Nuclide</th>
<th>Result +/- 2 s TPU</th>
<th>MDC</th>
<th>Requested MDC</th>
<th>Lab Qualifier</th>
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<tbody>
<tr>
<td>12587-46-1</td>
<td>GROSS ALPHA</td>
<td>4.6 +/- 1.8</td>
<td>1.4</td>
<td>3</td>
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<tr>
<td>12587-47-2</td>
<td>GROSS BETA</td>
<td>13.4 +/- 3.1</td>
<td>2.5</td>
<td>4</td>
<td></td>
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</table>

Comments:

Qualifiers/Flags:
U - Result is less than the sample specific MDC.
Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
Y2 - Chemical Yield outside default limits.
LT - Result is less than Requested MDC, greater than sample specific MDC.
M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
M - The requested MDC was not met.

Abbreviations:
TPE - Total Propagated Uncertainty
MDC - Minimum Detectable Concentration
BDL - Below Detection Limit

Data Package ID: AB1207221-1

Date Printed: Sunday, July 29, 2012
ALS Environmental -- FC
LIMS Version: 6.604
# Gross Alpha/Beta Analysis by GFPC

**PAI 724 Rev 11**  
**Sample Results**

**Lab Name:** ALS Environmental -- FC  
**Work Order Number:** 1207221  
**Client Name:** AZOMITE Mineral Products, Inc.  
**Client Project ID:** Radiation

<table>
<thead>
<tr>
<th>Field ID</th>
<th>Lab ID</th>
<th>Sample Matrix</th>
<th>Prep SOP</th>
<th>Prep Batch</th>
<th>QCBatchID</th>
<th>Run ID</th>
<th>Final Aliquot</th>
<th>Prep Basis</th>
<th>Moisture %</th>
<th>Result Units</th>
<th>File Name</th>
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<td>ABB0727A</td>
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<th>Target Nuclide</th>
<th>Result +/- 2 s TPU</th>
<th>MDC</th>
<th>Requested MDC</th>
<th>Lab Qualifier</th>
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<tbody>
<tr>
<td>12587-46-1</td>
<td>GROSS ALPHA</td>
<td>4.7 +/- 2.0</td>
<td>1.8</td>
<td>3</td>
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<tr>
<td>12587-47-2</td>
<td>GROSS BETA</td>
<td>27.2 +/- 5.3</td>
<td>2.9</td>
<td>4</td>
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</tr>
</tbody>
</table>

**Comments:**

**Qualifiers/Flags:**
- U - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- Y2 - Chemical Yield outside default limits.
- LT - Result is less than Requested MDC, greater than sample specific MDC.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- M - The requested MDC was not met.

**Abbreviations:**
- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration
- BDL - Below Detection Limit

**Data Package ID:** AB1207221-1
Gross Alpha/Beta Analysis by GFPC
PAI 724 Rev 11
Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1207221
Client Name: AZomite Mineral Products, Inc.
Client Project ID: Radiation

Field ID: 8
Lab ID: 1207221-8

Sample Matrix: SOLID
Prep SOP: PAI 702 Rev 20
Date Collected: 18-Jul-12
Date Prepared: 25-Jul-12
Date Analyzed: 27-Jul-12

Prep Batch: AB120725-1
GCBatchID: AB120725-1-3
Run ID: AB120725-1A
Count Time: 30 minutes
Report Basis: As Received
Final Aliquot: 0.524 g
Prep Basis: As Received
Moisture(%): NA
Result Units: pCi/g
File Name: ABC0727A

<table>
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<tr>
<th>CASNO</th>
<th>Target Nuclide</th>
<th>Result +/- 2 s TPU</th>
<th>MDC</th>
<th>Requested MDC</th>
<th>Lab Qualifier</th>
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<tr>
<td>12587-47-2</td>
<td>GROSS BETA</td>
<td>2.3 +/- 1.2</td>
<td>2.2</td>
<td>4</td>
<td>LT</td>
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Comments:

Qualifiers/Flags:
U - Result is less than the sample specific MDC.
Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
Y2 - Chemical Yield outside default limits.
LT - Result is less than Requested MDC, greater than sample specific MDC.
M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
M - The requested MDC was not met.

Abbreviations:
TPU - Total Propagated Uncertainty
MDC - Minimum Detectable Concentration
BDL - Below Detection Limit

Data Package ID: AB1207221-1

Date Printed: Sunday, July 29, 2012
ALS Environmental -- FC
LIMS Version: 6.604
# Gross Alpha/Beta Analysis by GFPC

**PAI 724 Rev 11**

**Sample Results**

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**Sample Matrix:** SOLID  
**Prep SOP:** PAI 702 Rev 20

**Date Collected:** 18-Jul-12  
**Date Prepared:** 25-Jul-12  
**Date Analyzed:** 27-Jul-12

<table>
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<th>CASNO</th>
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<th>Requested MDC</th>
<th>Lab Qualifier</th>
</tr>
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<tbody>
<tr>
<td>12587-46-1</td>
<td>GROSS ALPHA</td>
<td>2.2 +/- 1.3</td>
<td>1.6</td>
<td>3</td>
<td>LT</td>
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<tr>
<td>12587-47-2</td>
<td>GROSS BETA</td>
<td>8.2 +/- 2.2</td>
<td>2.4</td>
<td>4</td>
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**Prep Batch:** AB120725-2  
**GCBatchID:** AB120725-2-1  
**Run ID:** AB120725-2A  
**Count Time:** 30 minutes  
**Report Basis:** As Received

**Final Aliquot:** 0.524 g  
**Prep Basis:** As Received  
**Moisture(%):** NA  
**Result Units:** pCi/g  
**File Name:** ABB0727A

**Comments:**

**Qualifiers/Flags:**

- **U** - Result is less than the sample specific MDC.
- **Y1** - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
- **Y2** - Chemical Yield outside default limits.
- **LT** - Result is less than Requested MDC, greater than sample specific MDC.
- **M3** - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- **M** - The requested MDC was not met.

**Abbreviations:**

- TPU - Total Propagated Uncertainty
- MDC - Minimum Detectable Concentration
- BDL - Below Detection Limit

**Data Package ID:** AB1207221-1

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**Date Printed:** Sunday, July 29, 2012

**ALS Environmental -- FC**

**LIMS Version:** 6.604
QUALITY ASSURANCE SUMMARY SHEET

ALS W.O. #: BATCH AB120725-2
TEST Alpha Beta
METHOD Prep
SOP/REV (PREP) 702 Rev 20
SOP/REV (ANAL) —

Briefly document any QA or other problems or deviations associated with the analysis of samples. Problems could result from: log-in, color, odor, dilution, consistency, scheduling, equipment, or instrumentation, or may include documentation of minor deviations necessary due to unique DQQ’s or sample characteristics.

MEL 7/27/12

Per PM instruction, all samples were aliquotted, spiked and digested in 25 mL of HF. The next morning 15 mL of concentrated nitric was added to each sample and brought to dryness. The samples were then transferred with 8 N nitric to centrifuge tubes and brought up to 30 mL. The samples were then ready to start at step 8.4.8 in SOP 702 revision 20 and carried through the rest of the procedure.

MEL 7/27/12

TECHNICIAN/ANALYST Myra Lo DATE 7/27/12

DEPARTMENT MANAGER Dale R. Davis DATE 07/27/12

FORM 302r6.doc (4/22/04)

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