

Poston-Brown, Martha

From: Evans, Robert
Sent: Wednesday, January 08, 2020 3:23 PM
To: Poston-Brown, Martha
Subject: FW: FW: SFC Sample Results
Attachments: NRC112918Results.pdf; NRC112918ResultsNoCover.pdf

From: Sill, David S <sillds@id.doe.gov>
Sent: Wednesday, January 23, 2019 5:40 PM
To: Evans, Robert <Robert.Evans@nrc.gov>
Cc: Jim, Venessa Q <jimvq@id.doe.gov>
Subject: [External_Sender] FW: SFC Sample Results

Rob,

Attached are the analytical results of your samples. The uranium detected in these samples is natural and at activities well below 100 pCi/g. There was no statistically positive trans uranium activity detected in any of the samples. I have attached two reports as described below that detail the individual results. If you have any questions or need anything else, please give me a call.

Thanks,

David Sill

From: Sill, David S
Sent: Thursday, January 10, 2019 9:12 AM
To: 'Evans, Robert' <Robert.Evans@nrc.gov>
Subject: RE: SFC Sample Results

Rob,
Sounds good. I'll send you the results with our standard cover page and also a version without the cover page. That way you can pick the one you want and you won't have to delete or modify it. Once you see it, if you need anything else please let me know. Looking forward to working with you too. My contact info is below.

David Sill

Senior Technical Manager - Chemistry
U.S. Department of Energy – Idaho Operations Office
Radiological and Environmental Sciences Laboratory
1955 Fremont Ave.
RESL-683, MS 2112
Idaho Falls, Idaho 83415
208-526-8031
sillds@id.doe.gov

From: Evans, Robert <Robert.Evans@nrc.gov>

Sent: Friday, December 21, 2018 7:51 AM

To: Sill, David S <sillds@id.doe.gov>

Subject: SFC Sample Results

David:

I got your voice mail, and thanks for the call. I apologize for the delay, but I am working only part time for the rest of the year due to an abundance of use-or-lose annual leave (what a problem to have)!

Anyway, if you send me the results, I'll take it from here.

I plan to make your report publicly available, so if there's any proprietary information, headers, footers, or disclaimer statements that say otherwise, I may have to ask you to remove them. Please let me know if you have any problems with this.

THANKS, and I look forward to working with you in the future.

Rob Evans
NRC Region IV Office
Arlington, TX



CONFIRMATORY MEASUREMENT REPORT

FOR

U.S. NUCLEAR REGULATORY COMMISSION

11545 Rockville Pike, MS T-5 A10

Rockville, Maryland 20852

The results listed in this report are only applicable to the aliquot(s) taken from the sample(s) as received.

The sample information is logged into the sample analysis database as received; RESL is not responsible for the validity of the data provided by the customer.

The sample(s) are analyzed in the same condition as received. RESL assumes no responsibility for the sampling, handling, preservation, or transportation of samples provided for analyses.

All analytical radiochemistry was performed at RESL facilities by qualified personnel using current validated technical procedures that are directly applicable to the specific analyses.

Any additions to, deviations, or exclusions from the procedure or process are noted as such in the report.

This report is authorized by the RESL Senior Technical Manager for Chemistry (STM-C). Information regarding the technical aspects of this report may be obtained from Mr. David S. Sill, STM-C at: sillds@id.doe.gov or 208-526-8031.

Approved By:

David S. Sill, STM-C
DOE-ID, RESL



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Page 1 of 4

Date: 1/23/2019

Sample ID:
112918NRC-1

Matrix: Soil

Site Name: Pond 3E
northeast corner HA2144

Contact: Robert Evans

Nuclide

Results

| | |
|--------|-----------------------|
| Am-241 | 8 +/- 8 E-3 pCi/g |
| Pu-238 | -4 +/- 3 E-3 pCi/g |
| Pu-239 | -4 +/- 4 E-3 pCi/g |
| U-234 | 5.2 +/- 0.3 E-1 pCi/g |
| U-238 | 6.2 +/- 0.4 E-1 pCi/g |

Sample ID:
112918NRC-2

Matrix: Soil

Site Name: Pond 3E north
central HA2145

Contact: Robert Evans

Nuclide

Results

| | |
|--------|------------------------|
| Am-241 | 4 +/- 6 E-3 pCi/g |
| Pu-238 | -5 +/- 3 E-3 pCi/g |
| Pu-239 | -2 +/- 4 E-3 pCi/g |
| U-234 | 2.36 +/- 0.09 E0 pCi/g |
| U-238 | 2.25 +/- 0.08 E0 pCi/g |

Sample ID:
112918NRC-3

Matrix: Soil

Site Name: Pond 3E
southeast corner HA2146

Contact: Robert Evans

Nuclide

Results

| | |
|--------|--------------------|
| Am-241 | 2 +/- 6 E-3 pCi/g |
| Pu-238 | -5 +/- 8 E-3 pCi/g |
| Pu-239 | -9 +/- 7 E-3 pCi/g |

Samples Approved by:



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Date: 1/23/2019

| | | | |
|---------------------------|--------------|---|-------------------------|
| Sample ID: 112918NRC-3 | | U-234 | 4.00 +/- 0.130 E0 pCi/g |
| | | U-238 | 4.41 +/- 0.14 E0 pCi/g |
| Sample ID: 112918NRC-4 | Matrix: Soil | Site Name: Pond 3E ditch northwest area HA2147 | |
| | | Contact: Robert Evans | |
| | | Nuclide | Results |
| | | Am-241 | 2 +/- 6 E-3 pCi/g |
| | | Pu-238 | 5 +/- 9 E-3 pCi/g |
| | | Pu-239 | 1.6 +/- 1.6 E-2 pCi/g |
| | | U-234 | 1.01 +/- 0.05 E0 pCi/g |
| Sample ID: 112918NRC-5 | Matrix: Soil | Site Name: MPB East northwest area HA2148 | |
| | | Contact: Robert Evans | |
| | | Nuclide | Results |
| | | Am-241 | 7 +/- 6 E-3 pCi/g |
| | | Pu-238 | -3 +/- 7 E-3 pCi/g |
| | | Pu-239 | 3 +/- 7 E-3 pCi/g |
| | | U-234 | 1.09 +/- 0.05 E0 pCi/g |
| | | U-238 | 1.31 +/- 0.06 E0 pCi/g |

Samples Approved by: _____

David S. [Signature]

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| | | | |
|---------------------------|------------------------|---|-------------------------|
| Sample ID: 112918NRC-6 | Matrix: Soil | Site Name: MPB East north-central area HA2149 | Contact: Robert Evans |
| | | | |
| | | Nuclide | Results |
| | | Am-241 | 1.0 +/- 0.6 E-2 pCi/g |
| | | Pu-238 | -2 +/- 4 E-3 pCi/g |
| | | Pu-239 | 2 +/- 6 E-3 pCi/g |
| | | U-234 | 2.40 +/- 0.090 E0 pCi/g |
| U-238 | 2.61 +/- 0.09 E0 pCi/g | | |
| Sample ID: 112918NRC-7 | Matrix: Soil | Site Name: MPB East east HA2150 | Contact: Robert Evans |
| | | | |
| | | Nuclide | Results |
| | | Am-241 | 1.0 +/- 0.7 E-2 pCi/g |
| | | Pu-238 | -7 +/- 5 E-3 pCi/g |
| | | Pu-239 | -3 +/- 6 E-3 pCi/g |
| | | U-234 | 1.76 +/- 0.07 E0 pCi/g |
| U-238 | 1.56 +/- 0.07 E0 pCi/g | | |
| Sample ID: 112918NRC-8 | Matrix: Soil | Site Name: MPB E southwest areaHA2151 | Contact: Robert Evans |
| | | | |
| | | Nuclide | Results |
| | | Am-241 | 8 +/- 6 E-3 pCi/g |
| | | Pu-238 | 1.0 +/- 0.7 E-2 pCi/g |
| Pu-239 | 7 +/- 7 E-3 pCi/g | | |

Samples Approved by: _____

David S. [Signature]

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| | | |
|---------------------------|-------|------------------------|
| Sample ID: 112918NRC-8 | U-234 | 1.09 +/- 0.05 E0 pCi/g |
| | U-238 | 1.18 +/- 0.05 E0 pCi/g |

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Date: 1/23/2019

Sample ID:
112918NRC-1

Matrix: Soil

Site Name: Pond 3E
northeast corner HA2144

Contact: Robert Evans

Nuclide

Results

Am-241

8 +/- 8 E-3 pCi/g

Pu-238

-4 +/- 3 E-3 pCi/g

Pu-239

-4 +/- 4 E-3 pCi/g

U-234

5.2 +/- 0.3 E-1 pCi/g

U-238

6.2 +/- 0.4 E-1 pCi/g

Sample ID:
112918NRC-2

Matrix: Soil

Site Name: Pond 3E north
central HA2145

Contact: Robert Evans

Nuclide

Results

Am-241

4 +/- 6 E-3 pCi/g

Pu-238

-5 +/- 3 E-3 pCi/g

Pu-239

-2 +/- 4 E-3 pCi/g

U-234

2.36 +/- 0.09 E0 pCi/g

U-238

2.25 +/- 0.08 E0 pCi/g

Sample ID:
112918NRC-3

Matrix: Soil

Site Name: Pond 3E
southeast corner HA2146

Contact: Robert Evans

Nuclide

Results

Am-241

2 +/- 6 E-3 pCi/g

Pu-238

-5 +/- 8 E-3 pCi/g

Pu-239

-9 +/- 7 E-3 pCi/g

Samples Approved by: _____

David S. [Signature]

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Date: 1/23/2019

| | | | | |
|---------------------------|--------------|---|-------|-------------------------|
| Sample ID: 112918NRC-3 | | | U-234 | 4.00 +/- 0.130 E0 pCi/g |
| | | | U-238 | 4.41 +/- 0.14 E0 pCi/g |
| Sample ID: 112918NRC-4 | Matrix: Soil | Site Name: Pond 3E ditch northwest area HA2147 | | Contact: Robert Evans |
| | | | | |
| | | Nuclide | | Results |
| | | Am-241 | | 2 +/- 6 E-3 pCi/g |
| | | Pu-238 | | 5 +/- 9 E-3 pCi/g |
| | | Pu-239 | | 1.6 +/- 1.6 E-2 pCi/g |
| | | U-234 | | 1.01 +/- 0.05 E0 pCi/g |
| Sample ID: 112918NRC-5 | Matrix: Soil | Site Name: MPB East northwest area HA2148 | | Contact: Robert Evans |
| | | | | |
| | | Nuclide | | Results |
| | | Am-241 | | 7 +/- 6 E-3 pCi/g |
| | | Pu-238 | | -3 +/- 7 E-3 pCi/g |
| | | Pu-239 | | 3 +/- 7 E-3 pCi/g |
| | | U-234 | | 1.09 +/- 0.05 E0 pCi/g |
| | | U-238 | | 1.31 +/- 0.06 E0 pCi/g |

Samples Approved by: _____

David S. [Signature]

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Date: 1/23/2019

Sample ID:
112918NRC-6

Matrix: Soil

Site Name: MPB East north-
central area HA2149

Contact: Robert Evans

Nuclide

Results

| | |
|--------|-------------------------|
| Am-241 | 1.0 +/- 0.6 E-2 pCi/g |
| Pu-238 | -2 +/- 4 E-3 pCi/g |
| Pu-239 | 2 +/- 6 E-3 pCi/g |
| U-234 | 2.40 +/- 0.090 E0 pCi/g |
| U-238 | 2.61 +/- 0.09 E0 pCi/g |

Sample ID:
112918NRC-7

Matrix: Soil

Site Name: MPB East east
HA2150

Contact: Robert Evans

Nuclide

Results

| | |
|--------|------------------------|
| Am-241 | 1.0 +/- 0.7 E-2 pCi/g |
| Pu-238 | -7 +/- 5 E-3 pCi/g |
| Pu-239 | -3 +/- 6 E-3 pCi/g |
| U-234 | 1.76 +/- 0.07 E0 pCi/g |
| U-238 | 1.56 +/- 0.07 E0 pCi/g |

Sample ID:
112918NRC-8

Matrix: Soil

Site Name: MPB E southwest
areaHA2151

Contact: Robert Evans

Nuclide

Results

| | |
|--------|-----------------------|
| Am-241 | 8 +/- 6 E-3 pCi/g |
| Pu-238 | 1.0 +/- 0.7 E-2 pCi/g |
| Pu-239 | 7 +/- 7 E-3 pCi/g |

Samples Approved by: _____

David S. [Signature]

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Date: 1/23/2019

| | | |
|---------------------------|-------|------------------------|
| Sample ID: 112918NRC-8 | U-234 | 1.09 +/- 0.05 E0 pCi/g |
| | U-238 | 1.18 +/- 0.05 E0 pCi/g |

Samples Approved by: _____

David S. Lee

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