



United States Environmental Protection Agency
Office of Environmental Measurement & Evaluation
11 Technology Drive
North Chelmsford, MA 01863-2431

Laboratory Report

May 20, 2011

Ted Bzenas - Mail Code OSRR02-2
US EPA New England R1

Project Number: 11040091
Project: A & J Floral - Benton, ME
Analysis: Metals by XRF
Analyst: Janet Paquin
JP 5/20/11

Analytical Procedure:

All samples were received and logged in by the laboratory according to the USEPA New England SOP for Sample Log-in.

Sample preparation and analysis was done following the EPA Region I SOP, EIASOP-INGXRF0.

Samples were screened using a PANanalytical Epsilon 5 energy dispersive x-ray fluorescence (XRF) spectrometer. The spectrometer is a high resolution energy dispersive x-ray fluorescence spectrometer. It uses both direct and secondary targets to qualitatively and quantitatively analyze elements.

Date Samples Received by the Laboratory: 04/28/2011

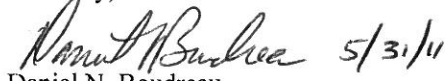
Data were reviewed in accordance with the internal verification procedures described in the EPA New England OEME Chemistry QA Plan.

Results relate only to the items tested or to the samples as received by the Laboratory. This analytical report shall not be reproduced except in full, without written approval of the laboratory.

Report may contain multiple sections and each section will be numbered independently.

If you have any questions please call me at 617-918-8340 .

Sincerely,


Daniel N. Boudreau
Chemistry Team Leader

Qualifiers:

RL	Reporting limit
ND	Not Detected above reporting limit
NA	Not Applicable
NC	Not calculated since analyte concentration is ND
J	Estimated result. The result is estimated because a double layer of prolene film was used in the XRF sample cup to keep the sample from leaking. The instrument software only corrects for a single layer of film. Therefore, the results may be affected.
J1	Estimated value due to MS recovery outside acceptance criteria
J3	Estimated value due to RPD result outside acceptance criteria
J4	Estimated value due to certified reference material result outside acceptance criteria
RPD	Relative Percent Difference

A solid standard reference material containing selenium was not available.

All samples were dried at 60 degrees Celsius for 69.5 hours and then sieved through a number 10 standard (2.0 mm) sieve prior to analysis.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

A & J Floral - Benton, ME

Metals by XRF

Client Sample ID: D30176
Date of Collection: 4/26/2011
Date of Analysis: 5/3/11

Lab Sample ID: AB16987
Matrix: Soil

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-38-2	Arsenic	ND	10	
7440-39-3	Barium	350	50	
7440-43-9	Cadmium	ND	10	
7440-47-3	Chromium	380	40	
7439-92-1	Lead	100	5	
7439-97-6	Mercury	ND	20	
7782-49-2	Selenium	ND	10	
7440-22-4	Silver	ND	10	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

A & J Floral - Benton, ME

Metals by XRF

Client Sample ID: D30177
Date of Collection: 4/26/2011
Date of Analysis: 5/3/11

Lab Sample ID: AB16988
Matrix: Soil

<u>CAS Number</u>	<u>Compound</u>	<u>Concentration mg/Kg</u>	<u>RL mg/Kg</u>	<u>Qualifier</u>
7440-38-2	Arsenic	26	10	
7440-39-3	Barium	96	50	
7440-43-9	Cadmium	ND	10	
7440-47-3	Chromium	ND	40	
7439-92-1	Lead	28	5	
7439-97-6	Mercury	ND	20	
7782-49-2	Selenium	ND	10	
7440-22-4	Silver	ND	10	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

A & J Floral - Benton, ME

Metals by XRF

Client Sample ID: D30178
Date of Collection: 4/26/2011
Date of Analysis: 5/3/11

Lab Sample ID: AB16989
Matrix: Soil

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-38-2	Arsenic	ND	10	
7440-39-3	Barium	260	50	
7440-43-9	Cadmium	ND	10	
7440-47-3	Chromium	40	40	
7439-92-1	Lead	280	5	
7439-97-6	Mercury	ND	20	
7782-49-2	Selenium	ND	10	
7440-22-4	Silver	ND	10	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

A & J Floral - Benton, ME

Metals by XRF

Client Sample ID: D30179
Date of Collection: 4/26/2011

Lab Sample ID: AB16990
Matrix: Soil

Date of Analysis: 5/3/11

<u>CAS Number</u>	<u>Compound</u>	<u>Concentration mg/Kg</u>	<u>RL mg/Kg</u>	<u>Qualifier</u>
7440-38-2	Arsenic	ND	10	
7440-39-3	Barium	410	50	
7440-43-9	Cadmium	ND	10	
7440-47-3	Chromium	71	40	
7439-92-1	Lead	150	5	
7439-97-6	Mercury	ND	20	
7782-49-2	Selenium	ND	10	
7440-22-4	Silver	ND	10	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

A & J Floral - Benton, ME

Metals by XRF

Client Sample ID: D30180
Date of Collection: 4/26/2011

Lab Sample ID: AB16991
Matrix: Soil

Date of Analysis: 5/3/11

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-38-2	Arsenic	ND	10	
7440-39-3	Barium	380	50	
7440-43-9	Cadmium	ND	10	
7440-47-3	Chromium	90	40	
7439-92-1	Lead	560	5	
7439-97-6	Mercury	ND	20	
7782-49-2	Selenium	ND	10	
7440-22-4	Silver	ND	10	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

A & J Floral - Benton, ME

Metals by XRF

Client Sample ID: D30181

Lab Sample ID: AB16992

Date of Collection: 4/26/2011

Matrix Soil

Date of Analysis: 5/3/11

<u>CAS Number</u>	<u>Compound</u>	<u>Concentration mg/Kg</u>	<u>RL mg/Kg</u>	<u>Qualifier</u>
7440-38-2	Arsenic	13	10	
7440-39-3	Barium	330	50	
7440-43-9	Cadmium	ND	10	
7440-47-3	Chromium	71	40	
7439-92-1	Lead	32	5	
7439-97-6	Mercury	ND	20	
7782-49-2	Selenium	ND	10	
7440-22-4	Silver	ND	10	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

A & J Floral - Benton, ME

Metals by XRF

Client Sample ID: D30182
Date of Collection: 4/26/2011
Date of Analysis: 5/3/11

Lab Sample ID: AB16993
Matrix: Soil

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-38-2	Arsenic	10	10	
7440-39-3	Barium	310	50	
7440-43-9	Cadmium	ND	10	
7440-47-3	Chromium	67	40	
7439-92-1	Lead	31	5	
7439-97-6	Mercury	ND	20	
7782-49-2	Selenium	ND	10	
7440-22-4	Silver	ND	10	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

A & J Floral - Benton, ME

Metals by XRF

Client Sample ID: D30183

Lab Sample ID: AB16994

Date of Collection: 4/26/2011

Matrix Soil

Date of Analysis: 5/3/11

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-38-2	Arsenic	ND	10	
7440-39-3	Barium	950	50	
7440-43-9	Cadmium	ND	10	
7440-47-3	Chromium	96	40	
7439-92-1	Lead	450	5	
7439-97-6	Mercury	ND	20	
7782-49-2	Selenium	ND	10	
7440-22-4	Silver	ND	10	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

A & J Floral - Benton, ME

Metals by XRF

Client Sample ID: D30184
Date of Collection: 4/26/2011

Lab Sample ID: AB16995
Matrix: Soil

Date of Analysis: 5/3/11

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-38-2	Arsenic	12	10	
7440-39-3	Barium	400	50	
7440-43-9	Cadmium	ND	10	
7440-47-3	Chromium	85	40	
7439-92-1	Lead	46	5	
7439-97-6	Mercury	ND	20	
7782-49-2	Selenium	ND	10	
7440-22-4	Silver	ND	10	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

A & J Floral - Benton, ME

Metals by XRF

Client Sample ID: D30185
Date of Collection: 4/26/2011
Date of Analysis: 5/3/11

Lab Sample ID: AB16996
Matrix: Soil

<u>CAS Number</u>	<u>Compound</u>	<u>Concentration mg/Kg</u>	<u>RL mg/Kg</u>	<u>Qualifier</u>
7440-38-2	Arsenic	ND	10	
7440-39-3	Barium	1530	50	
7440-43-9	Cadmium	36	10	
7440-47-3	Chromium	510	40	
7439-92-1	Lead	2820	5	
7439-97-6	Mercury	ND	20	
7782-49-2	Selenium	ND	10	
7440-22-4	Silver	31	10	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

A & J Floral - Benton, ME

Metals by XRF

Client Sample ID: D30186
Date of Collection: 4/26/2011
Date of Analysis: 5/3/11

Lab Sample ID: AB16997
Matrix: Soil

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-38-2	Arsenic	ND	10	
7440-39-3	Barium	740	50	
7440-43-9	Cadmium	16	10	
7440-47-3	Chromium	200	40	
7439-92-1	Lead	5170	5	
7439-97-6	Mercury	ND	20	
7782-49-2	Selenium	ND	10	
7440-22-4	Silver	ND	10	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

A & J Floral - Benton, ME

Metals by XRF

Client Sample ID: D30187
Date of Collection: 4/26/2011

Lab Sample ID: AB16998
Matrix: Soil

Date of Analysis: 5/3/11

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-38-2	Arsenic	ND	10	
7440-39-3	Barium	1900	50	
7440-43-9	Cadmium	14	10	
7440-47-3	Chromium	400	40	
7439-92-1	Lead	3940	5	
7439-97-6	Mercury	ND	20	
7782-49-2	Selenium	ND	10	
7440-22-4	Silver	ND	10	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

A & J Floral - Benton, ME

Metals by XRF

Client Sample ID: D30188
Date of Collection: 4/26/2011
Date of Analysis: 5/3/11

Lab Sample ID: AB16999
Matrix: Soil

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-38-2	Arsenic	ND	10	
7440-39-3	Barium	300	50	
7440-43-9	Cadmium	ND	10	
7440-47-3	Chromium	45	40	
7439-92-1	Lead	43	5	
7439-97-6	Mercury	ND	20	
7782-49-2	Selenium	ND	10	
7440-22-4	Silver	ND	10	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

A & J Floral - Benton, ME

Metals by XRF

Client Sample ID: D30189

Lab Sample ID: AB17000

Date of Collection: 4/26/2011

Matrix Soil

Date of Analysis: 5/3/11

<u>CAS Number</u>	<u>Compound</u>	<u>Concentration mg/Kg</u>	<u>RL mg/Kg</u>	<u>Qualifier</u>
7440-38-2	Arsenic	54	10	
7440-39-3	Barium	920	50	
7440-43-9	Cadmium	ND	10	
7440-47-3	Chromium	51	40	
7439-92-1	Lead	50	5	
7439-97-6	Mercury	ND	20	
7782-49-2	Selenium	ND	10	
7440-22-4	Silver	ND	10	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

A & J Floral - Benton, ME

Metals by XRF

Client Sample ID: D30190
Date of Collection: 4/26/2011
Date of Analysis: 5/4/11

Lab Sample ID: AB17001
Matrix: Soil

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-38-2	Arsenic	ND	10	
7440-39-3	Barium	280	50	
7440-43-9	Cadmium	ND	10	
7440-47-3	Chromium	ND	40	
7439-92-1	Lead	20	5	
7439-97-6	Mercury	ND	20	
7782-49-2	Selenium	ND	10	
7440-22-4	Silver	ND	10	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

A & J Floral - Benton, ME

Metals by XRF

Client Sample ID: D30191
Date of Collection: 4/26/2011
Date of Analysis: 5/4/11

Lab Sample ID: AB17002
Matrix: Soil

<u>CAS Number</u>	<u>Compound</u>	<u>Concentration mg/Kg</u>	<u>RL mg/Kg</u>	<u>Qualifier</u>
7440-38-2	Arsenic	ND	10	
7440-39-3	Barium	1050	50	
7440-43-9	Cadmium	13	10	
7440-47-3	Chromium	420	40	
7439-92-1	Lead	1320	5	
7439-97-6	Mercury	ND	20	
7782-49-2	Selenium	ND	10	
7440-22-4	Silver	42	10	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

A & J Floral - Benton, ME

Metals by XRF

Client Sample ID: D30192
Date of Collection: 4/26/2011
Date of Analysis: 5/4/11

Lab Sample ID: AB17003
Matrix: Soil

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-38-2	Arsenic	ND	10	
7440-39-3	Barium	620	50	
7440-43-9	Cadmium	ND	10	
7440-47-3	Chromium	220	40	
7439-92-1	Lead	840	5	
7439-97-6	Mercury	ND	20	
7782-49-2	Selenium	ND	10	
7440-22-4	Silver	11	10	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

A & J Floral - Benton, ME

Metals by XRF

Client Sample ID: D30193
Date of Collection: 4/26/2011
Date of Analysis: 5/4/11

Lab Sample ID: AB17004
Matrix: Soil

<u>CAS Number</u>	<u>Compound</u>	<u>Concentration mg/Kg</u>	<u>RL mg/Kg</u>	<u>Qualifier</u>
7440-38-2	Arsenic	ND	10	
7440-39-3	Barium	1560	50	
7440-43-9	Cadmium	26	10	
7440-47-3	Chromium	390	40	
7439-92-1	Lead	1930	5	
7439-97-6	Mercury	ND	20	
7782-49-2	Selenium	ND	10	
7440-22-4	Silver	27	10	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

A & J Floral - Benton, ME

Metals by XRF

Client Sample ID: D30194
Date of Collection: 4/26/2011
Date of Analysis: 5/4/11

Lab Sample ID: AB17005
Matrix: Soil

<u>CAS Number</u>	<u>Compound</u>	<u>Concentration mg/Kg</u>	<u>RL mg/Kg</u>	<u>Qualifier</u>
7440-38-2	Arsenic	ND	10	
7440-39-3	Barium	560	50	
7440-43-9	Cadmium	11	10	
7440-47-3	Chromium	200	40	
7439-92-1	Lead	3750	5	
7439-97-6	Mercury	ND	20	
7782-49-2	Selenium	ND	10	
7440-22-4	Silver	ND	10	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

A & J Floral - Benton, ME

Metals by XRF

Client Sample ID: D30195

Lab Sample ID: AB17006

Date of Collection: 4/26/2011

Matrix Soil

Date of Analysis: 5/4/11

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-38-2	Arsenic	10	10	
7440-39-3	Barium	250	50	
7440-43-9	Cadmium	ND	10	
7440-47-3	Chromium	58	40	
7439-92-1	Lead	30	5	
7439-97-6	Mercury	ND	20	
7782-49-2	Selenium	ND	10	
7440-22-4	Silver	ND	10	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

A & J Floral - Benton, ME

Metals by XRF

Client Sample ID: D30196
Date of Collection: 4/26/2011
Date of Analysis: 5/4/11

Lab Sample ID: AB17007
Matrix: Soil

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-38-2	Arsenic	ND	10	
7440-39-3	Barium	190	50	
7440-43-9	Cadmium	ND	10	
7440-47-3	Chromium	42	40	
7439-92-1	Lead	110	5	
7439-97-6	Mercury	ND	20	
7782-49-2	Selenium	ND	10	
7440-22-4	Silver	ND	10	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

A & J Floral - Benton, ME

Metals by XRF

Client Sample ID: D30197
Date of Collection: 4/26/2011

Lab Sample ID: AB17008
Matrix: Soil

Date of Analysis: 5/4/11

<u>CAS Number</u>	<u>Compound</u>	<u>Concentration mg/Kg</u>	<u>RL mg/Kg</u>	<u>Qualifier</u>
7440-38-2	Arsenic	ND	10	
7440-39-3	Barium	300	50	
7440-43-9	Cadmium	ND	10	
7440-47-3	Chromium	53	40	
7439-92-1	Lead	98	5	
7439-97-6	Mercury	ND	20	
7782-49-2	Selenium	ND	10	
7440-22-4	Silver	ND	10	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

A & J Floral - Benton, ME

Metals by XRF

Client Sample ID: D30198

Lab Sample ID: AB17009

Date of Collection: 4/26/2011

Matrix Soil

Date of Analysis: 5/4/11

<u>CAS Number</u>	<u>Compound</u>	<u>Concentration mg/Kg</u>	<u>RL mg/Kg</u>	<u>Qualifier</u>
7440-38-2	Arsenic	ND	10	
7440-39-3	Barium	400	50	
7440-43-9	Cadmium	ND	10	
7440-47-3	Chromium	96	40	
7439-92-1	Lead	2290	5	
7439-97-6	Mercury	ND	20	
7782-49-2	Selenium	ND	10	
7440-22-4	Silver	ND	10	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

A & J Floral - Benton, ME

Metals by XRF

Client Sample ID: D30199
Date of Collection: 4/26/2011

Lab Sample ID: AB17010
Matrix: Soil

Date of Analysis: 5/4/11

<u>CAS Number</u>	<u>Compound</u>	<u>Concentration mg/Kg</u>	<u>RL mg/Kg</u>	<u>Qualifier</u>
7440-38-2	Arsenic	ND	10	
7440-39-3	Barium	360	50	
7440-43-9	Cadmium	ND	10	
7440-47-3	Chromium	79	40	
7439-92-1	Lead	240	5	
7439-97-6	Mercury	ND	20	
7782-49-2	Selenium	ND	10	
7440-22-4	Silver	ND	10	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

A & J Floral - Benton, ME

Metals by XRF

Client Sample ID: D30200
Date of Collection: 4/26/2011
Date of Analysis: 5/4/11

Lab Sample ID: AB17011
Matrix: Soil

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-38-2	Arsenic	ND	10	
7440-39-3	Barium	540	50	
7440-43-9	Cadmium	ND	10	
7440-47-3	Chromium	70	40	
7439-92-1	Lead	790	5	
7439-97-6	Mercury	ND	20	
7782-49-2	Selenium	ND	10	
7440-22-4	Silver	ND	10	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

A & J Floral - Benton, ME

Metals by XRF

Client Sample ID: D30201
Date of Collection: 4/26/2011

Lab Sample ID: AB17012
Matrix: Soil

Date of Analysis: 5/4/11

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-38-2	Arsenic	ND	10	
7440-39-3	Barium	740	50	
7440-43-9	Cadmium	ND	10	
7440-47-3	Chromium	160	40	
7439-92-1	Lead	860	5	
7439-97-6	Mercury	ND	20	
7782-49-2	Selenium	ND	10	
7440-22-4	Silver	ND	10	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

A & J Floral - Benton, ME

Metals by XRF

Client Sample ID: D30202
Date of Collection: 4/26/2011
Date of Analysis: 5/4/11

Lab Sample ID: AB17013
Matrix: Soil

<u>CAS Number</u>	<u>Compound</u>	<u>Concentration mg/Kg</u>	<u>RL mg/Kg</u>	<u>Qualifier</u>
7440-38-2	Arsenic	ND	10	
7440-39-3	Barium	1030	50	
7440-43-9	Cadmium	20	10	
7440-47-3	Chromium	450	40	
7439-92-1	Lead	1590	5	
7439-97-6	Mercury	ND	20	
7782-49-2	Selenium	ND	10	
7440-22-4	Silver	47	10	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

A & J Floral - Benton, ME

Metals by XRF

Client Sample ID: D30203
Date of Collection: 4/26/2011

Lab Sample ID: AB17014
Matrix: Soil

Date of Analysis: 5/4/11

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-38-2	Arsenic	ND	10	
7440-39-3	Barium	1110	50	
7440-43-9	Cadmium	20	10	
7440-47-3	Chromium	390	40	
7439-92-1	Lead	1810	5	
7439-97-6	Mercury	ND	20	
7782-49-2	Selenium	ND	10	
7440-22-4	Silver	ND	10	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

A & J Floral - Benton, ME

Metals by XRF

Client Sample ID: D30204
Date of Collection: 4/26/2011

Lab Sample ID: AB17015
Matrix: Soil

Date of Analysis: 5/4/11

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-38-2	Arsenic	ND	10	
7440-39-3	Barium	470	50	
7440-43-9	Cadmium	ND	10	
7440-47-3	Chromium	100	40	
7439-92-1	Lead	400	5	
7439-97-6	Mercury	ND	20	
7782-49-2	Selenium	ND	10	
7440-22-4	Silver	ND	10	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

A & J Floral - Benton, ME

Metals by XRF

Client Sample ID: D30205
Date of Collection: 4/26/2011

Lab Sample ID: AB17016
Matrix: Soil

Date of Analysis: 5/4/11

<u>CAS Number</u>	<u>Compound</u>	<u>Concentration mg/Kg</u>	<u>RL mg/Kg</u>	<u>Qualifier</u>
7440-38-2	Arsenic	ND	10	
7440-39-3	Barium	400	50	
7440-43-9	Cadmium	ND	10	
7440-47-3	Chromium	74	40	
7439-92-1	Lead	170	5	
7439-97-6	Mercury	ND	20	
7782-49-2	Selenium	ND	10	
7440-22-4	Silver	ND	10	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

A & J Floral - Benton, ME

Metals by XRF

Client Sample ID: D30206
Date of Collection: 4/26/2011

Lab Sample ID: AB17017
Matrix: Soil

Date of Analysis: 5/4/11

<u>CAS Number</u>	<u>Compound</u>	<u>Concentration mg/Kg</u>	<u>RL mg/Kg</u>	<u>Qualifier</u>
7440-38-2	Arsenic	ND	10	
7440-39-3	Barium	830	50	
7440-43-9	Cadmium	16	10	
7440-47-3	Chromium	270	40	
7439-92-1	Lead	1670	5	
7439-97-6	Mercury	ND	20	
7782-49-2	Selenium	ND	10	
7440-22-4	Silver	ND	10	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Laboratory Duplicate Results

COMPOUND	SAMPLE RESULT	SAMPLE DUPLICATE RESULT	PRECISION RPD	QC LIMITS
	mg/Kg	mg/Kg	%	

Sample ID: AB16987

Arsenic	ND	ND	NC	35
Barium	350	280	22	35
Cadmium	ND	ND	NC	35
Chromium	380	380	0	35
Lead	100	110	10	35
Mercury	ND	ND	NC	35
Selenium	ND	ND	NC	35
Silver	ND	ND	NC	35

Sample ID: AB17004

Arsenic	ND	ND	NC	35
Barium	1560	1650	6	35
Cadmium	26	26	0	35
Chromium	390	400	3	35
Lead	1930	2000	4	35
Mercury	ND	ND	NC	35
Selenium	ND	ND	NC	35
Silver	27	30	11	35

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

XRF QC REPORT

A & J Floral - Benton, ME

Standard Reference Material 2709

COMPOUND	MEASURED CONCENTRATION mg/Kg	CERTIFIED VALUE mg/Kg	QC LIMITS mg/Kg
----------	------------------------------------	-----------------------------	-----------------------

Run Date: 05/03/2011

Arsenic	18	18	13 - 23
Barium	830	970	680 - 1260
Chromium	110	130	91 - 170
Lead	22	19	13 - 25

Run Date: 05/04/2011

Arsenic	18	18	13 - 23
Barium	830	970	680 - 1260
Chromium	110	130	91 - 170
Lead	22	19	13 - 25

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

XRF QC REPORT

A & J Floral - Benton, ME

Standard Reference Material 2710

COMPOUND	MEASURED CONCENTRATION mg/Kg	CERTIFIED VALUE mg/Kg	QC LIMITS mg/Kg
----------	------------------------------------	-----------------------------	-----------------------

Run Date: 05/04/2011

Arsenic	620	630	440 - 820
Barium	900	710	497 - 920
Cadmium	21	22	15 - 29
Lead	5370	5530	3870 - 7190
Mercury	36	33	23 - 43
Silver	38	35	25 - 46

Run Date: 05/04/2011

Arsenic	620	630	440 - 820
Barium	900	710	497 - 920
Cadmium	22	22	15 - 29
Lead	5330	5530	3870 - 7190
Mercury	35	33	23 - 43
Silver	37	35	25 - 46

Comments:

[illegible]

[illegible]

Special Instructions:

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

[illegible]

