



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6D0240

Binghamton University

Project Name: BU Pb 2016

Kelly Donovan
440 Vestal Parkway
Binghamton, NY 13902

Project / PO Number: N/A
Received: 04/01/2016 11:00
Reported: 04/12/2016 17:24

Analytical Testing Parameters

Client Sample ID: ADM-01
Lab Sample ID: J6D0240-01
Sample Type:

Collected By: Client
Collection Date: 03/30/16
Collection Time: 06:15

Analyses Subcontracted to: Microbac Laboratories, Inc. Dayville (NY 11549)

200.8- ICP-MS	Result	PQL	Units	Note	Prepared	Analyzed
Method: 200.8 Lead	<0.001	0.001	mg/L		04/06/16 1025	04/07/16 2301

Analytical Testing Parameters

Client Sample ID: ADM-02
Lab Sample ID: J6D0240-02
Sample Type:

Collected By: Client
Collection Date: 03/30/16
Collection Time: 06:25

Analyses Subcontracted to: Microbac Laboratories, Inc. Dayville (NY 11549)

200.8- ICP-MS	Result	PQL	Units	Note	Prepared	Analyzed
Method: 200.8 Lead	<0.001	0.001	mg/L		04/06/16 1025	04/07/16 2312

Analytical Testing Parameters

Client Sample ID: ADM-03
Lab Sample ID: J6D0240-03
Sample Type:

Collected By: Client
Collection Date: 03/30/16
Collection Time: 06:29

Analyses Subcontracted to: Microbac Laboratories, Inc. Dayville (NY 11549)

200.8- ICP-MS	Result	PQL	Units	Note	Prepared	Analyzed
Method: 200.8 Lead	<0.001	0.001	mg/L		04/06/16 1025	04/07/16 2316



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6D0240

Analytical Testing Parameters

Client Sample ID: ADM-04
Lab Sample ID: J6D0240-04
Sample Type:

Collected By: Client
Collection Date: 03/30/16
Collection Time: 06:32

Analyses Subcontracted to: Microbac Laboratories, Inc. Dayville (NY 11549)

Table with 7 columns: Method, Result, PQL, Units, Note, Prepared, Analyzed. Row 1: 200.8- ICP-MS, Result, PQL, Units, Note, Prepared, Analyzed. Row 2: Method: 200.8, Lead, <0.001, 0.001, mg/L, 04/06/16 1025, 04/07/16 2320

Analytical Testing Parameters

Client Sample ID: FAR-01
Lab Sample ID: J6D0240-05
Sample Type:

Collected By: Client
Collection Date: 03/30/16
Collection Time: 06:38

Analyses Subcontracted to: Microbac Laboratories, Inc. Dayville (NY 11549)

Table with 7 columns: Method, Result, PQL, Units, Note, Prepared, Analyzed. Row 1: 200.8- ICP-MS, Result, PQL, Units, Note, Prepared, Analyzed. Row 2: Method: 200.8, Lead, 0.001, 0.001, mg/L, 04/06/16 1025, 04/07/16 2323

Analytical Testing Parameters

Client Sample ID: FAR-02
Lab Sample ID: J6D0240-06
Sample Type:

Collected By: Client
Collection Date: 03/30/16
Collection Time: 06:40

Analyses Subcontracted to: Microbac Laboratories, Inc. Dayville (NY 11549)

Table with 7 columns: Method, Result, PQL, Units, Note, Prepared, Analyzed. Row 1: 200.8- ICP-MS, Result, PQL, Units, Note, Prepared, Analyzed. Row 2: Method: 200.8, Lead, <0.001, 0.001, mg/L, 04/06/16 1025, 04/07/16 2327



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Analytical Testing Parameters

Client Sample ID: FAR-03
Lab Sample ID: J6D0240-07
Sample Type:

Collected By: Client
Collection Date: 03/30/16
Collection Time: 06:44

Analyses Subcontracted to: Microbac Laboratories, Inc. Dayville (NY 11549)

Table with 7 columns: Method, Result, PQL, Units, Note, Prepared, Analyzed. Row 1: 200.8- ICP-MS, Result, PQL, Units, Note, Prepared, Analyzed. Row 2: Method: 200.8, Lead, 0.0018, 0.001, mg/L, 04/06/16 1025, 04/07/16 2338

Analytical Testing Parameters

Client Sample ID: FAR-04
Lab Sample ID: J6D0240-08
Sample Type:

Collected By: Client
Collection Date: 03/30/16
Collection Time: 06:45

Analyses Subcontracted to: Microbac Laboratories, Inc. Dayville (NY 11549)

Table with 7 columns: Method, Result, PQL, Units, Note, Prepared, Analyzed. Row 1: 200.8- ICP-MS, Result, PQL, Units, Note, Prepared, Analyzed. Row 2: Method: 200.8, Lead, <0.001, 0.001, mg/L, 04/06/16 1025, 04/07/16 2342

Analytical Testing Parameters

Client Sample ID: ENG-01
Lab Sample ID: J6D0240-09
Sample Type:

Collected By: Client
Collection Date: 03/30/16
Collection Time: 06:57

Analyses Subcontracted to: Microbac Laboratories, Inc. Dayville (NY 11549)

Table with 7 columns: Method, Result, PQL, Units, Note, Prepared, Analyzed. Row 1: 200.8- ICP-MS, Result, PQL, Units, Note, Prepared, Analyzed. Row 2: Method: 200.8, Lead, <0.001, 0.001, mg/L, 04/06/16 1025, 04/07/16 2346



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Analytical Testing Parameters

Client Sample ID: ENG-02
Lab Sample ID: J6D0240-10
Sample Type:

Collected By: Client
Collection Date: 03/30/16
Collection Time: 07:00

Analyses Subcontracted to: Microbac Laboratories, Inc. Dayville (NY 11549)

Table with 7 columns: Method, Result, PQL, Units, Note, Prepared, Analyzed. Row 1: 200.8- ICP-MS, Result, PQL, Units, Note, Prepared, Analyzed. Row 2: Method: 200.8, Lead, <0.001, 0.001, mg/L, 04/06/16 1025, 04/07/16 2349

Analytical Testing Parameters

Client Sample ID: LIB-01
Lab Sample ID: J6D0240-11
Sample Type:

Collected By: Client
Collection Date: 03/30/16
Collection Time: 07:23

Analyses Subcontracted to: Microbac Laboratories, Inc. Dayville (NY 11549)

Table with 7 columns: Method, Result, PQL, Units, Note, Prepared, Analyzed. Row 1: 200.8- ICP-MS, Result, PQL, Units, Note, Prepared, Analyzed. Row 2: Method: 200.8, Lead, <0.001, 0.001, mg/L, 04/06/16 1025, 04/07/16 2353

Analytical Testing Parameters

Client Sample ID: LIB-02
Lab Sample ID: J6D0240-12
Sample Type:

Collected By: Client
Collection Date: 03/30/16
Collection Time: 07:25

Analyses Subcontracted to: Microbac Laboratories, Inc. Dayville (NY 11549)

Table with 7 columns: Method, Result, PQL, Units, Note, Prepared, Analyzed. Row 1: 200.8- ICP-MS, Result, PQL, Units, Note, Prepared, Analyzed. Row 2: Method: 200.8, Lead, <0.001, 0.001, mg/L, 04/06/16 1025, 04/08/16 0000



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Analytical Testing Parameters

Client Sample ID: LIB-03
Lab Sample ID: J6D0240-13
Sample Type:

Collected By: Client
Collection Date: 03/30/16
Collection Time: 07:28

Analyses Subcontracted to: Microbac Laboratories, Inc. Dayville (NY 11549)

Table with 7 columns: Method, Result, PQL, Units, Note, Prepared, Analyzed. Row 1: 200.8- ICP-MS, Result, PQL, Units, Note, Prepared, Analyzed. Row 2: Method: 200.8, Lead, 0.0065, 0.001, mg/L, 04/06/16 1025, 04/08/16 0004

Analytical Testing Parameters

Client Sample ID: LIB-04
Lab Sample ID: J6D0240-14
Sample Type:

Collected By: Client
Collection Date: 03/30/16
Collection Time: 07:32

Analyses Subcontracted to: Microbac Laboratories, Inc. Dayville (NY 11549)

Table with 7 columns: Method, Result, PQL, Units, Note, Prepared, Analyzed. Row 1: 200.8- ICP-MS, Result, PQL, Units, Note, Prepared, Analyzed. Row 2: Method: 200.8, Lead, <0.001, 0.001, mg/L, 04/06/16 1040, 04/08/16 0008

Analytical Testing Parameters

Client Sample ID: LIB-05
Lab Sample ID: J6D0240-15
Sample Type:

Collected By: Client
Collection Date: 03/30/16
Collection Time: 07:36

Analyses Subcontracted to: Microbac Laboratories, Inc. Dayville (NY 11549)

Table with 7 columns: Method, Result, PQL, Units, Note, Prepared, Analyzed. Row 1: 200.8- ICP-MS, Result, PQL, Units, Note, Prepared, Analyzed. Row 2: Method: 200.8, Lead, <0.001, 0.001, mg/L, 04/06/16 1040, 04/08/16 0012



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Analytical Testing Parameters

Client Sample ID: LIB-06
Lab Sample ID: J6D0240-16
Sample Type:

Collected By: Client
Collection Date: 03/30/16
Collection Time: 07:40

Analyses Subcontracted to: Microbac Laboratories, Inc. Dayville (NY 11549)

Table with 7 columns: 200.8- ICP-MS, Result, PQL, Units, Note, Prepared, Analyzed. Row 1: Method: 200.8, Lead, <0.001, 0.001, mg/L, 04/06/16 1040, 04/08/16 0023

Analytical Testing Parameters

Client Sample ID: COM-01
Lab Sample ID: J6D0240-17
Sample Type:

Collected By: Client
Collection Date: 03/30/16
Collection Time: 07:06

Analyses Subcontracted to: Microbac Laboratories, Inc. Dayville (NY 11549)

Table with 7 columns: 200.8- ICP-MS, Result, PQL, Units, Note, Prepared, Analyzed. Row 1: Method: 200.8, Lead, <0.001, 0.001, mg/L, 04/06/16 1040, 04/08/16 0027

Analytical Testing Parameters

Client Sample ID: COM-02
Lab Sample ID: J6D0240-18
Sample Type:

Collected By: Client
Collection Date: 03/30/16
Collection Time: 07:13

Analyses Subcontracted to: Microbac Laboratories, Inc. Dayville (NY 11549)

Table with 7 columns: 200.8- ICP-MS, Result, PQL, Units, Note, Prepared, Analyzed. Row 1: Method: 200.8, Lead, <0.001, 0.001, mg/L, 04/06/16 1040, 04/08/16 0030



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Analytical Testing Parameters

Client Sample ID: COM-03
Lab Sample ID: J6D0240-19
Sample Type:

Collected By: Client
Collection Date: 03/30/16
Collection Time: 07:15

Analyses Subcontracted to: Microbac Laboratories, Inc. Dayville (NY 11549)

Table with 7 columns: Method, Result, PQL, Units, Note, Prepared, Analyzed. Row 1: 200.8- ICP-MS, Result, PQL, Units, Note, Prepared, Analyzed. Row 2: Method: 200.8, Lead, 0.005, 0.001, mg/L, 04/06/16 1040, 04/08/16 0034

Analytical Testing Parameters

Client Sample ID: COM-04
Lab Sample ID: J6D0240-20
Sample Type:

Collected By: Client
Collection Date: 03/30/16
Collection Time: 07:17

Analyses Subcontracted to: Microbac Laboratories, Inc. Dayville (NY 11549)

Table with 7 columns: Method, Result, PQL, Units, Note, Prepared, Analyzed. Row 1: 200.8- ICP-MS, Result, PQL, Units, Note, Prepared, Analyzed. Row 2: Method: 200.8, Lead, <0.001, 0.001, mg/L, 04/06/16 1040, 04/08/16 0038

Analytical Testing Parameters

Client Sample ID: SCC-01
Lab Sample ID: J6D0240-21
Sample Type:

Collected By: Client
Collection Date: 03/30/16
Collection Time: 07:32

Analyses Subcontracted to: Microbac Laboratories, Inc. Dayville (NY 11549)

Table with 7 columns: Method, Result, PQL, Units, Note, Prepared, Analyzed. Row 1: 200.8- ICP-MS, Result, PQL, Units, Note, Prepared, Analyzed. Row 2: Method: 200.8, Lead, 0.0018, 0.001, mg/L, 04/06/16 1040, 04/07/16 1846

Laboratory

NY: Microbac Laboratories, Inc., New York Division

Definitions

AL: Action Level
PQL: Practical Quantitation Limit

Cooler Receipt Log

Cooler ID: Default Cooler Temp: 16.0°C



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6D0240

Cooler Inspection Checklist

Custody Seals Intact and/or No Evidence of Tampering	Yes	Containers Intact	Yes
COC/Labels Agree	Yes	Preservation Correct (or not required)	Yes
Received on Ice (or not required)	Yes		

Project Requested Certification(s)

Microbac Laboratories, Inc. Dayville (NY 11549)
NY Lab ID No: 11549

New York State Department of Health

Report Comments

Samples were received in proper condition and the reported results conform to applicable accreditation standard unless otherwise noted.


Reviewed and Approved By:

Michael Fifield
Division Manager
04/12/2016 17:24

Go Green: Contact Michael Fifield to set up email reporting and invoicing options.

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included. For any feedback concerning our services, please contact Michael Fifield, Project Manager at michael.fifield@microbac.com. You may also contact Michael Fifield, Managing Director at michael.fifield@microbac.com or Robert Crookston, President at robert.crookston@microbac.com.

Client Information		Billing/Invoice:		Analysis Requested		Receiving Info (Lab Use Only)					
Name: Binghamton University Address: Physical Plant, PO Box 6000 Binghamton, NY 13902-6000 Contact: Kelly Donovan Phone: 607-777-4018 Project: BU Pb 2016 Quote ID: _____ PO#: _____ Rush TAT Bus. Days: <2 2-5 5-7 7-10 Date Req.: _____ Carbon Copy: Yes Email Results: Yes Fax Results: Yes						Ice: YES <input checked="" type="checkbox"/> NO Cooler: YES <input checked="" type="checkbox"/> NO Sample Temp: 6e Cooler Seal: YES NO Pickup: YES NO Dropoff: C W Accepted? YES <input checked="" type="checkbox"/> NO Container Material Container Size(in MI) Preservative					
Sample Information				Number of Containers for Analysis Requested				Comments/Field Data			
Description/Location	Date	Time	Matrix	Type							
1 ADM-01	3/25/16	6:15a		Gr/DW	1						
2 ADM-02		6:25a									
3 ADM-03		6:29a									
4 ADM-04		6:32a									
5 FAR-01		6:38a									
6 FAR-02		6:40a									
7 FAR-03		6:44a									
8 FAR-04		6:46a									
9 ENG-01		6:57a									
10 ENG-02		7:00a									
11 LIB-01		7:23a									
12 LIB-02		7:26a									
13 LIB-03		7:28a									
14 LIB-04		7:32a									
15 LIB-05		7:36a									



J6D0240

Print Name and Company	Date/Time	Comments
Sampled: Stephen Endrey	4/1/16	
Received: Pet R. Tell	4/1/16 9:27	
Received: [Signature]	4/1/16 1:00	

Microbac Laboratories (MNY) may be unable to perform a portion of the requested testing in which case we will subcontract the analysis to another accredited laboratory. By signing this document you are attesting that you have been informed by MNY of the intent to subcontract and are in agreement with this action.

Client Information			Billing/Invoice:			Analysis Requested			Receiving Info (Lab Use Only)		
Name: Binghamton University Address: Physical Plant, PO Box 6000 Binghamton, NY 13902-6000 Contact: Kelly Donovan Phone: 607-777-4018 Project: BU Pb 2016 Quote ID: PO#: Rush TAT Bus. Days: <2 2-5 5-7 7-10 Carbon Copy: Yes Email Results: Yes Fax Results: Yes			Date: 3/24/16 Time: 7:40a Matrix Type: GridW			Total Lead (DW) (EPA 200.8) Plastic 250 ml HNO3			Ice: YES NO Cooler: YES NO Sample Temp: Cooler Seal: YES NO Pickup: YES NO Dropoff: C W Accepted?: YES NO Container Material: Container Size(in ml): Preservative:		
Sample Information			Number of Containers for Analysis Requested			Comments/Field Data					
Description/Location	Date	Time	Matrix Type								
1 LIB-06	3/24/16	7:40a	GridW	1							
2 COM-01		7:06a									
3 COM-02		7:13a									
4 COM-03		7:15a									
5 COM-04		7:17a									
6 SCC-01		7:32a									
7											
8											
9											
10											
11											
12											
13											
14											
15											



J6D0240

Print Name and Company sampled: Stephen Endres, BA received: Pete Ruffell / ml Date/Time: 4/1/16 4/1/16 9:27		Comments
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Microbac Laboratories (MNY) may be unable to perform a portion of the requested testing in which case we will subcontract the analysis to another accredited laboratory. By signing this document you are attesting that you have been informed by MNY of the intent to subcontract and are in agreement with this action.