



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6D0238

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 17:25

Analytical Testing Parameters

Client Sample ID: SEN-01  
Lab Sample ID: J6D0238-01  
Sample Type: Grab

Collected By: SE-Client  
Collection Date: 03/28/16  
Collection Time: 08:05

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 1000	04/07/16 1912

Analytical Testing Parameters

Client Sample ID: SEN-02  
Lab Sample ID: J6D0238-02  
Sample Type: Grab

Collected By: SE-Client  
Collection Date: 03/28/16  
Collection Time: 08:09

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

200.8- ICP-MS	Result	PQL	Units	Note	Prepared	Analyzed
Method: 200.8						
Lead	0.0016	0.001	mg/L		04/06/16 1000	04/07/16 1923

Analytical Testing Parameters

Client Sample ID: SEN-03  
Lab Sample ID: J6D0238-03  
Sample Type: Grab

Collected By: SE-Client  
Collection Date: 03/28/16  
Collection Time: 08:16

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 1000	04/07/16 1926



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6D0238

Analytical Testing Parameters

Client Sample ID: SEN-04
Lab Sample ID: J6D0238-04
Sample Type: Grab

Collected By: SE-Client
Collection Date: 03/28/16
Collection Time: 08:22

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 1000, 04/07/16 1930

Analytical Testing Parameters

Client Sample ID: CWD-01
Lab Sample ID: J6D0238-05
Sample Type: Grab

Collected By: SE-Client
Collection Date: 03/28/16
Collection Time: 08:28

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, 0.0034, 0.001, mg/L, 04/06/16 1000, 04/07/16 1934

Analytical Testing Parameters

Client Sample ID: CWD-02
Lab Sample ID: J6D0238-06
Sample Type: Grab

Collected By: SE-Client
Collection Date: 03/28/16
Collection Time: 08:32

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, 0.0017, 0.001, mg/L, 04/06/16 1000, 04/07/16 1937



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6D0238

Analytical Testing Parameters

Client Sample ID: CWD-03
Lab Sample ID: J6D0238-07
Sample Type: Grab

Collected By: SE-Client
Collection Date: 03/28/16
Collection Time: 08:35

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 1000, 04/07/16 1949

Analytical Testing Parameters

Client Sample ID: CWD-04
Lab Sample ID: J6D0238-08
Sample Type: Grab

Collected By: SE-Client
Collection Date: 03/28/16
Collection Time: 08:40

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, 0.0071, 0.001, mg/L, 04/06/16 1000, 04/07/16 1952

Analytical Testing Parameters

Client Sample ID: HUG-01
Lab Sample ID: J6D0238-09
Sample Type: Grab

Collected By: SE-Client
Collection Date: 03/28/16
Collection Time: 08:56

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, 0.0016, 0.001, mg/L, 04/06/16 1000, 04/07/16 1956



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6D0238

Analytical Testing Parameters

Client Sample ID: HUG-02
Lab Sample ID: J6D0238-10
Sample Type: Grab

Collected By: SE-Client
Collection Date: 03/28/16
Collection Time: 08:54

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, 0.0011, 0.001, mg/L, 04/06/16 1000, 04/07/16 2000

Analytical Testing Parameters

Client Sample ID: HUG-03
Lab Sample ID: J6D0238-11
Sample Type: Grab

Collected By: SE-Client
Collection Date: 03/28/16
Collection Time: 08:58

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, 0.0027, 0.001, mg/L, 04/06/16 1000, 04/07/16 2003

Analytical Testing Parameters

Client Sample ID: HUG-04
Lab Sample ID: J6D0238-12
Sample Type: Grab

Collected By: SE-Client
Collection Date: 03/28/16
Collection Time: 09:03

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 1000, 04/07/16 2011



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6D0238

Analytical Testing Parameters

Client Sample ID: HDH-01
Lab Sample ID: J6D0238-13
Sample Type: Grab

Collected By: SE-Client
Collection Date: 03/28/16
Collection Time: 09:15

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, 0.0027, 0.001, mg/L, 04/06/16 1000, 04/07/16 2014

Analytical Testing Parameters

Client Sample ID: HDH-02
Lab Sample ID: J6D0238-14
Sample Type: Grab

Collected By: SE-Client
Collection Date: 03/28/16
Collection Time: 09:18

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 1000, 04/07/16 2018

Analytical Testing Parameters

Client Sample ID: HDH-03
Lab Sample ID: J6D0238-15
Sample Type: Grab

Collected By: SE-Client
Collection Date: 03/28/16
Collection Time: 09:22

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 1000, 04/07/16 2022



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6D0238

Analytical Testing Parameters

Client Sample ID: HDH-04
Lab Sample ID: J6D0238-16
Sample Type: Grab

Collected By: SE-Client
Collection Date: 03/28/16
Collection Time: 09:28

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 <0.001, PQL 0.001, Units mg/L, Note, Prepared 04/06/16 1000, Analyzed 04/07/16 2033.

Analytical Testing Parameters

Client Sample ID: APP-01
Lab Sample ID: J6D0238-17
Sample Type: Grab

Collected By: SE-Client
Collection Date: 03/28/16
Collection Time: 09:40

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 <0.001, PQL 0.001, Units mg/L, Note, Prepared 04/06/16 1000, Analyzed 04/07/16 2037.

Analytical Testing Parameters

Client Sample ID: APP-02
Lab Sample ID: J6D0238-18
Sample Type: Grab

Collected By: SE-Client
Collection Date: 03/28/16
Collection Time: 09:44

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 <0.001, PQL 0.001, Units mg/L, Note, Prepared 04/06/16 1000, Analyzed 04/07/16 2040.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6D0238

Analytical Testing Parameters

Client Sample ID: APP-03
Lab Sample ID: J6D0238-19
Sample Type: Grab

Collected By: SE-Client
Collection Date: 03/28/16
Collection Time: 09:49

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, 0.0012, 0.001, mg/L, 04/06/16 1000, 04/07/16 2044

Analytical Testing Parameters

Client Sample ID: APP-04
Lab Sample ID: J6D0238-20
Sample Type: Grab

Collected By: SE-Client
Collection Date: 03/28/16
Collection Time: 09:53

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 1000, 04/07/16 2048

Analytical Testing Parameters

Client Sample ID: COMM-01
Lab Sample ID: J6D0238-21
Sample Type: Grab

Collected By: SE-Client
Collection Date: 03/28/16
Collection Time: 10:07

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 1013, 04/07/16 1816



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6D0238

Analytical Testing Parameters

Client Sample ID: COMM-02
Lab Sample ID: J6D0238-22
Sample Type: Grab

Collected By: SE-Client
Collection Date: 03/28/16
Collection Time: 10:12

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, <0.001, 0.001, mg/L, 04/06/16 1013, 04/07/16 1820

Laboratory

NY: Microbac Laboratories, Inc., New York Division

Definitions

AL: Action Level
MCL: Maximum Contaminant Level
PQL: Practical Quantitation Limit

Cooler Receipt Log

Cooler ID: Default Cooler Temp: 16.0°C

Cooler Inspection Checklist

Checklist table with 4 columns: Item, Yes/No, Item, Yes/No. Items include Custody Seals Intact, COC/Labels Agree, Received on Ice, Containers Intact, Preservation Correct.

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:

Handwritten signature of Michael Fifield

Michael Fifield
Division Manager
04/12/2016 17:25

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.



Client Information		Billing/Invoice:		Analysis Requested		Receiving Info (Lab Use Only)	
Name: Binghamton University						Ice: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	
Address: Physical Plant, PO Box 6000						Cooler: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	
Binghamton, NY 13902-6000						Sample Temp: 14	
Contact: Kelly Donovan						Cooler Seal: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	
Phone: 607-777-4018						Pickup: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	
Project: BU Pb 2016						Dropoff: C W	
Quote ID: PO#:						Accepted? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	
Rush TAT Bus. Days: <2 2-5 5-7 7-10						Container Material:	
Carbon Copy: Yes						Container Size:(in Mi)	
Email Results: Yes						Preservative	
Fax Results: Yes						Comments/Field Data	
Sample Information				Number of Containers for Analysis Requested			
Description/Location	Date	Time	Matrix Type				
1 SEN-01	3/20/16	8:05a	G/DW	1			
2 SEN-02		8:09a					
3 SEN-03		8:16a					
4 SEN-04		8:22a					
5 CWD-01		8:28a					
6 CWD-02		8:32a					
7 CWD-03		8:35a					
8 CWD-04		8:40a					
9 AUG-01		8:56a					
10 AUG-02		8:59a					
11 AUG-03		8:58a					
12 AUG-04		9:03a					
13 HDH-01		9:15a					
14 HDH-02		9:18a					
15 HDH-03		9:22a					



J6D0238

Print Name and Company		Date/Time		Comments	
Sampled: Stephen Endres, B&H		4/1/16			
Received: Peter DeHoff/mc		4/1/16 9:23			
Received: Amanda Walker		4/1/16 11:00			

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.

**Microbac Laboratories, Inc.**  
**CHAIN OF CUSTODY**

Samples must be returned on ice

MNY Workorder #

Client Information		Billing/Invoice:		Analysis Requested		Receiving Info (Lab Use Only)	
Name:	Binghamton University					Ice:	YES <input checked="" type="checkbox"/> NO
Address:	Physical Plant, PO Box 6000					Cooler:	YES <input checked="" type="checkbox"/> NO
	Binghamton, NY 13902-6000					Sample Temp:	16.0°
Contact:	Kelly Donovan					Cooler Seal:	YES NO
Phone:	607-777-4018					Pickup:	YES NO
Project:	BU Pb 2016					Dropoff:	C W
Quote ID:	PO#:					Accepted?	<input checked="" type="checkbox"/> YES NO
Rush TAT Bus. Days:	<2 2-5 5-7 7-10					Container Material:	
Carbon Copy:	Yes					Container Size(n MI):	
Email Results:	Yes					Preservative:	
Fax Results:	Yes					Comments/Field Data	
Sample Information				Number of Containers for Analysis Requested			
Description/Location	Date	Time	Matrix Type				
1 HDA-04	3/28/16	9:28a	Gr/DW	1			
2 APP-01		9:40a					
3 APP-02		9:44a					
4 APP-03		9:49a					
5 APP-04		9:53a					
6 Comm-01		10:07a					
7 Comm-02		10:12a					
8							
9							
10							
11							
12							
13							
14							
15							



J6D0238

Sampled: Stephen Endres BU  
 Received: Pete D. Bell  
 Date/Time: 4/1/16 11:00  
 Comments: [Handwritten notes]

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.